

C D M S

C U S T O M E R D A T A M A N A G E M E N T S Y S T E M

TABLE OF CONTENTS

Introduction

General Information

Set Up

Data Terminal Keys

Description of Control Keys

Summary of Function Keys and Associated Data Forms

Common Tenant Designation

System Timeouts

Trunk Signalling Parameters

Attendant Queue Priorities

Station Directory Plan

Feature Access Codes/Class of Service Definition (FAC/COS)

Card Slot Definition

Station Equipment Definition

Trunk Equipment Definition

Attendant Group Definition

Trunk Group Access Assignment

Trunk Group Definition

Hotline Station Destination Directory Number Assignments

Abbreviated Dialing Code Destination

Feature Package

Business Feature I - Station Hunt Group Definition

Business Feature I - Toll Restriction Tables

Business Feature I - Toll Set Definition

Business Feature II - Timer Parameters

Business Feature II - Station Pickup Group Definition

Business Feature III - Priority Calling Definition

SMDR - Call Record Parameters

SMDR - Minimum Call Duration

Speed Call - Timing Parameters

DATA FORMS

Common Tenant Designation

System Timeouts

Trunk Signalling Parameters

Attendant Queue Priorities

Station Directory Plan

FAC/COS - Primary System Features

- Business I Features

- Business II Features

- Business III Features

- SMDR Features

- Remote Access Features

- On-Line Debug Features

- Speed Call Features

- Traffic Features

Card Slot Definition
Station Equipment Definition
Trunk Equipment Definition
Attendant Group Definition
Trunk Group Access Assignment
Trunk Group Definition
Hotline Station Destination Directory Number Assignment
Abbreviated Dialing Code Destination

Business I Feature - Station Hunt Group Definition
Business I Feature - Toll Restriction Tables
Business I Feature - Toll Set Definition
Business II Feature - Timer Parameters
Business II Feature - Station Pickup Group Definition
Business III Feature - Priority Calling Definition

SMDR - No Local Call Records
SMDR - Account Classes
SMDR - Trunk Groups With SMDR
SMDR - Station Equipment With SMDR
SMDR - Trunk Equipment with SMDR
SMDR - Secondary Trunk Access Codes
SMDR - Call Record Parameters
SMDR - Minimum Call Duration

Remote Access - Timing Constants and Passwords
Remote Access - Priority Ports
Remote Access - Access Ports

On-Line Debug - Pass-Word

Speed Call - Speed Dial Common Table Access
Speed Call - Stations with Speed Dial
Speed Call - Stations with Redial
Speed Call - Timing Parameters

Application Notes

Toll Restrictions
Printer Option

Error Codes

INTRODUCTION

The Prodigy is configured by a system known internally as "CDMS" (Customer Data Management System). This configuration system is portable and can be connected to any switch. CDMS allows a switch to be initially configured out in the field. In addition, CDMS has the capability to interrogate and modify the configuration data of an existing switch.

The information contained within this document covers the configuration of the following software packages:

- Primary System
- Business Features I
- Business Features II
- Business Features III
- Private Line Business
- Remote Access
- SMDR
- Traffic
- Speed Call
- On-Line Debug

The following software packages do not require configuration information:

- Interprocessor
- Attendant Console

GENERAL INFORMATION

The CDMS module is designed to examine and modify configuration data within the PABX. The module is coordinated with the customer data forms such that the forms can be used as a guide to operate the module.

Configuration data is entered on a line-by-line basis. Modifications of data on a line become effective only after the "ENTER" key is depressed. (The "ENTER" key can be depressed at any time - not only at the end of a line). This mechanism was implemented to facilitate the examination of current data and to enable the operator to review and correct data entry errors.

The CDMS equipment cannot display all the information on a line at one time. Therefore each line is divided into one or more data fields. These data fields correspond to the columns of the customer data forms. The CDMS module will display only one data field at a time. By utilizing the "←" and "→" keys, the operator can sequentially examine all the data on a line.

Each data field is presented with operator information on the left half of the display and the current data on the right half of the display. The current data will be blinking to distinguish it from the operator information. The blinking also provides information concerning the maximum size (number of digits) of the data.

Data within each field is entered by depressing the digit keys ("1-9, *, #") followed by "INSERT" or "DELETE". The CDMS module takes no action besides presenting the digit keys on the display until either "INSERT" or "DELETE" is depressed. Only after either of these keys is depressed will the CDMS module interpret the entered data and modify the data field accordingly. If the module detects an illegal data entry, the data field will not be changed. The "???" lamp will be turned on and the original data will be displayed again. If the operator detects a data entry error before "INSERT" or "DELETE" is depressed, the "ERASE" key can be depressed, in order to clear the erroneous data and display the original data.

In general, the CDMS module will automatically display the next data field after data has been entered in the current data field. In addition, the module will display the start of the next line whenever "ENTER" is depressed.

SET UP

The following steps are required to activate the CDMS system:

- 1) Insert the CDMS card into the configuration card slot position. The configuration card in turn is inserted into the back of the CDMS card.
- 2) Place the standard console into service mode. With the console in service mode the CDMS system is ready to be activated.
- 3) Depress the upper "Hold" key twice on the console to activate CDMS. The text "SERVICE CONSOLE 1" followed by "TENANT = 1" will appear on the console display to confirm that CDMS has been activated.
- 4) With CDMS activated, the standard console is transformed into a configuration data terminal. The keys on the console are assigned new functions as indicated on the plastic overlay. These new keys are described in the next section.

DATA TERMINAL KEYS

The keys on the data terminal are divided into three distinct groups - FUNCTION, KEYPAD, CONTROL (Figure 1).

FUNCTION Keys: Each function key initiates a segment of the CDMS system that will configure the type of data associated with the function key. There is a customer data form associated with each function key.

KEYPAD Keys: The keypad is used for data input to the CDMS system.

CONTROL Keys: The control key group facilitates the examination and modification of the configuration data. In addition to inserting and deleting data, these keys provide a form of cursor control to review existing data.

TENANT	ATT Q PRIORITY	CARD DEFINE	ATT GROUPS	ABBREV DIALING	INIT. PRINT.
--------	-------------------	----------------	---------------	-------------------	-----------------

TIMEOUTS	STATION DIR PLAN	STATION DEFINE	HOTLINE STATIONS
----------	---------------------	-------------------	---------------------

TRUNK SIGNAL	FEAT. ACC. COS	TRUNK DEFINE	TRUNK GRP ACCESS	FEATURE PKG.
-----------------	----------------------	-----------------	------------------------	-----------------

FUNCTION KEYS

1	2	3
4	5	6
7	8	9
*	0	#

DIGIT KEYS

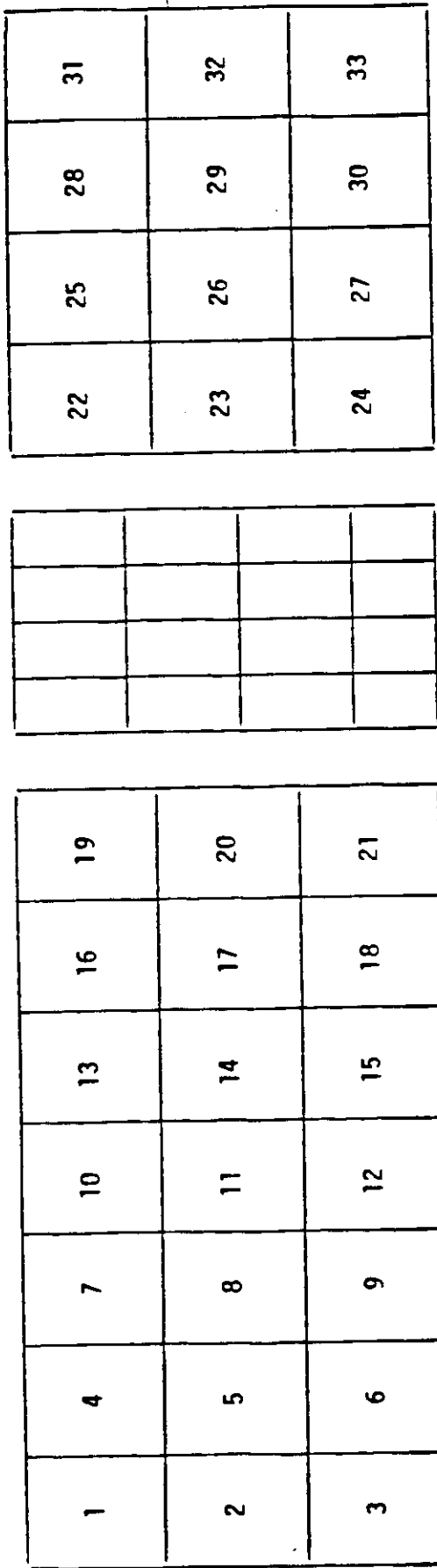
ENTER	↑	COPY	PROM
-------	---	------	------

←	ERASE	→	ON LINE CHANGE
---	-------	---	-------------------

INSERT	↓	DELETE	PRINT
--------	---	--------	-------

CONTROL KEYS

Figure 1: DATA TERMINAL KEYS



FUNCTION KEYS

KEYPAD

CONTROL KEYS

DATA TERMINAL KEYS

<u>KEY</u>	<u>NAME</u>
1	TENANT
2	TIMEOUTS
3	TRUNK SIGNAL
4	ATT. Q PRIORITY
5	
6	
7	
8	STATION DIR PLAN
9	FAC/COS
10	CARD DEFINE
11	STATION DEFINE
12	TRUNK DEFINE
13	ATT. GROUPS
14	
15	TRUNK GROUPS
16	ABBREV. DIALING
17	HOTLINE STATIONS
18	TRK. GRP. STATIONS
19	INIT. PRINTER (Available w/CDMS Printer Option)
20	
21	FEATURE PACKAGE
22	ENTER
23	
24	INSERT
25	
26	ERASE
27	
28	COPY
29	
30	DELETE
31	PROM
32	ON-LINE CHANGES
33	PRINT (Available w/CDMS Printer Option)

CDMS - DESCRIPTION OF CONTROL KEYS

ENTER	Modifies information on current line of the data form.
INSERT DELETE	Terminates data input in the current data field. Causes the CDMS system to interpret the data and take appropriate action to insert/delete the information.
ERASE	Clears current data input and displays the original information of the current data field.
↑	Displays the information on the previous line of the data form. (Stops at the first line of the form).
↓	Displays the information on the next line of the data form. (Stops at the last line of the form).
←	Displays the information in the previous data field of the current line. (Stops at the first data field of the current line).
→	Displays the information in the next data field of the current line. (Stops at the last data field of the current line).
COPY	Special control key used in three functions - FAC/COS, Station Equipment Definition, and Trunk Equipment Definition.
ON LINE CHANGE	Depress this key twice to perform service mode functions available through the console (i.e. CLEAR, CMOS, etc.) Depress this key again to return to functions available via CDMS.
PROM	(See next page.

CDMS - DESCRIPTION OF CONTROL KEYS

PROM

FUNCTION: Perform several PROM programmer-like functions. Also stores the configuration data into the configuration data PROMS.

COMMANDS: Valid commands - 1 through 6

1. Determine checksum of PROM in socket* A5.
2. Copy contents of PROM in socket* A3 into that of PROM in socket* A5.
3. Verify contents of PROM in socket* A3 into that of PROM in socket*A5.
4. Determine which PROMs on the configuration card are empty.
5. Determine how many bytes are needed to store the configuration data into the configuration PROMs.
6. Store the configuration data into the configuration PROMs.

*on configuration card 7700-1266-02

SUMMARY OF FUNCTION KEYS AND
ASSOCIATED DATA FORMS

SUMMARY OF FUNCTION KEYS AND
ASSOCIATED DATA FORMS

COMMON TENANT DESIGNATION

Function: Specify the current tenant and cabinet identification. All commands which require tenant or cabinet information will use the common designation specified here.

Fields:

Tenant: Valid tenant number 1-8. Add 100 to tenant number to indicate "shared" tenancy (example: 102 means the common tenant designation is tenant 2 and tenant 2 is a "shared" tenant).

Cabinet: Valid cabinet number 1-4.

SYSTEM TIMEOUTS

Function: Specify various system timing (timeout) parameters.

Fields:

System timing parameters: Timeout values are specified in terms of 100 milli-second units. Valid timeout values range from 0 (0 seconds) to 3100 (310 seconds). The switch is initially configured with the timeout values enclosed within parentheses.

Note: Due to the manner in which timeout data is represented within the switch, data truncation may cause the actual timeout value to differ from what was entered. The CDMS system will display the actual timeout value stored within the switch. (Example: If a timeout value of 35 (3.5 seconds) is inserted, the actual timeout value will be truncated to 34 (3.4 seconds).)

*Exceptions to valid timeout values:

Off Hook: 1 (.1 second) to 127 (12.7 seconds)

Switch Hook: 4 (.4 seconds) to 3103 (310.3 seconds)

SYSTEM TIMEOUTS

Switchhook

Duration of on hook time which indicates a switch hook operation.

Howler Alert

After an origination if no dialing is detected for this duration of time, howl tone is given to the originator.

Station Dial Done

Duration of time which indicates station dialing is completed.

Howler Duration

Duration of time howler is provided to the originator, after expiration of which the attendant is called.

Trunk Dialing Done

Duration of time which indicates to system dialing is completed on the trunk.

Trunk First Digit

Monitors rotary and/or DTMF dialing on the trunk. Rotary scan is dropped when times expires.

Confirmation Tone

Duration of feature confirmation tone heard.

Call Hold

Duration of time splash ring is provided after one places a call on hold.

Equipment Busy

Response time when searching for equipment or station in single or multiple processor system. Equipment busy tone is given when this timeout expires.

TRUNK SIGNALLING PARAMETERS

Function: Specify the various timing parameters which govern the handling of the various trunks.

Fields:

Signal Set: Valid signalling set number 1-6.

Signalling Parameters: Signalling parameters are specified in terms of millisecond units. Valid signalling parameters range from 0 (0 millisecond units) to 12750 (12750 millisecond units).

The switch is initially configured with the signalling parameters enclosed in parentheses.

Note: Due to the manner in which signalling parameter data is represented within the switch, data truncation may cause the actual parameter value to differ from what was entered. The data will always be truncated to the next lower multiple of 50. The CDMS system will display the actual parameter value stored within the switch. (Example: A parameter value of 128 will be truncated to 100.)

TRUNK SIGNALLING PARAMETERS

The purpose of each signalling parameter depends on what type of trunk is associated with the signal set.

<u>Parameter</u>	<u>Signal Set 1 (ground start) of Signal Set 2 (loop start)</u>	<u>Signal Set 3 (E&M)</u>
1	Incoming Seizure	Incoming Seizure
2	Disconnect	Disconnect
3	Switch Hook	Outgoing Disconnect
4	Ringing Disconnect	Wink
5	Incoming Idle	Disconnect Delay
6	Outgoing Seizure	Outgoing Seizure
7	CO Release	PBX Answer
8	Interdigit	Interdigit
9	Meter Pulse	In Pulse
10	CO Disconnect	Out Pulse
11		Minimum Wink
12		Maximum Wink
13		Maximum Co Delay
14		Maximum CO Answer
15		
16		

ATTENDANT QUEUE PRIORITIES

Function: Assign a priority to the different types of calls routed to the attendant position.

Fields:

Queue Priorities: Valid queue priorities 1-7 (1 = highest priority)

Note: No two queues should have the same priority assignment.

STATION DIRECTORY PLAN

Function: Specify the station directory plan. Designate which class of service is allowed to dial the various directory numbers.

Fields:

Directory Plan: Valid directory numbering plan is of the form FAdddd where:

F = # if the first digit of the directory number is included in the directory table.
* if the first digit is not included in the directory table.

A = One digit access code (1-9)

d = * if fixed length directory numbers
if variable length directory numbers

(*1) The number of "d"s is equivalent to the number of digits in the directory number table.

Examples: #8*** specifies 3 digit directory numbers which look like 8 _ _
#7** specifies 2 digit directory numbers which look like 7 _ _
#6#### specifies 1 to 4 digit directory numbers which look like 6 or 6 _ or
6 _ or 6 _ _ .
*5*** specifies 3 digit directory numbers which look like _ _ _

Class of Service: Valid class of service 1-16

The specified class of service will be allowed (INSERT) or denied (DELETE) to dial the corresponding numbering plan.

(*1) NOTE: For "first digit not included", the number of digits in the directory table is not equal to the number of digits dialed. The number of digits in the table will be one less than the number of digits dialed.

EXAMPLE: Dialing 5 218 (for directory plan *5***) gets ext. 218

FEATURE ACCESS CODES/CLASS OF SERVICE DEFINITION (FAC/COS)

Function: Designate the access code required to implement a feature and specify which classes are allowed to implement a feature.

Fields:

Item Number: Valid item numbers are those whose associated feature is legal for the current system configuration (example: if no feature chips are active then item numbers corresponding to BF1 would not be valid).

Access Code: Any access code (4 digit maximum) is valid unless (1) that code is already used to specify a different feature, or (2) no space is available in the configuration area to accommodate that access code.

Class of Service: Designate if the specific class can implement the feature (INSERT) or cannot implement the feature (DELETE).

Cross Reference Between CDMS Item Numbers and Feature Definition Numbers

<u>CDMS ITEM NO.</u>	<u>FEATURE IDENTIFICATION NUMBER</u>
<u>Primary</u>	
1-8	0400
32	0540
33	2240
34	1630
35	0940
36-38	0290
50-55	1010
60-91	0001
<u>Business I Features</u>	
300, 301	1410
302, 303	1640
304, 305	0070
306, 307	0480
<u>Business II Features</u>	
400	0160
401	0240
402	0260
403	0250
404	0270
405	1320
406	0300
407	0620
408	0621
<u>Business III Features</u>	
500	0680
501	0220
502	1690
503-505	1390

CARD SLOT DEFINITION

Function: Designate what type of card will reside within a particular card slot.

Fields:

Card Type: Valid card type: 1 = line card
2 = ground start trunk card
3 = loop start trunk card
4 = E & M Type I trunk card
5 = E & M Type II trunk card

Note: Whenever a card type is entered all equipment numbers on that card are initialized to "not previously defined".

STATION EQUIPMENT DEFINITION

Function: Define the numerous attributes of each station equipment.

Fields:

Station Equipment Number: Valid station equipment numbers range from 1 through 128. As a matter of convenience, the eight station equipment numbers on each page should correspond to the card on which those equipments reside. As an example, equipments 1 through 8 reside on card 1, equipments 9-16 reside on card 2, etc.

Note: A "0" displayed as the station equipment number indicates that no stations have been defined for the current tenant.

Tenant Group: Valid tenant number 1-8.

Directory Number: A 1-4 digit directory number (not already assigned) is valid. If no directory number is desired for this equipment, the directory number can be deleted.

Class of Service: Valid class of service number 1-16

Attendant Group: Valid attendant group number 1-8.

Origination Type: Up to 2 digits can be used to specify origination type.

Origination type: 1 = outward calls restricted
2 = deny origination
3 = manual originating line (calls attendant group)
4 = hotline - internal

Origination types 2 through 5 are mutually exclusive. If they are simultaneously entered, the last entered type will take precedence.

If none of the origination types are desired, the delete key will clear out the origination type.

Termination Type: Up to 6 digits can be used to specify termination type.

Termination type: 1 = trunk break in restricted
2 = attendant break in restricted
3 = station break in restricted
4 = trunk terminations restricted
5 = attendant terminations restricted
6 = station terminations restricted

If none of the termination types are desired, the delete key will clear out termination type.

DTMF or Rotary: Valid DTMF/Rotary options: 2 = if station is rotary only
1 = if station is rotary or DTMF

Active or Passive: Valid Active/Passive options: 1 = for normal device
2 = for passive device (passive devices cannot be transferred or put on hold)

Note: An equipment dedicated to an attendant console must have (1) origination type = deny origination and (2) a rotary only option.

TRUNK EQUIPMENT DEFINITION

Function: Define the numerous attributes of each trunk equipment.

Fields: The first 9 fields of trunk equipment definition are identical to station equipment definition with the following exceptions:

Trunk Equipment Number: Valid trunk equipment numbers are limited to the first four equipment numbers of each card (Example: equipment 1-4, 9-12, 17-20, etc)

Origination Type: Only 1 digit is used to specify the origination type.

Origination type: 1 - incoming only - manual (*1)
2 - incoming only - direct line
3 - bothway - manual
4 - bothway - direct line (*2)
5 - outgoing only (*3)
6 - bothway - normal (E&M)
7 - incoming only - normal (E&M)

- (*1) manual means incoming trunk call routed to the trunk's associated attendant group.
(*2) direct lines means incoming trunk call routed to the trunk's direct line directory #.
(*3) normal means incoming trunk will be treated as though it were a station which went off hook (it can dial features or directory numbers which a corresponding station would be able to).

Position Busy or Direct Line Directory Number: This field will not be displayed if the origination types 5, 6, and 7. "PBSY DN" is displayed if the origination type specifies manual. "DLA DN" is displayed if origination type specifies direct line.

A 1-4 digit station directory number (previously defined) is valid. A "*" preceding the directory number indicates the trunk is also routed to a UNA.

Assigned Night Answer Directory Number: Similar to Position Busy/Direct Line Directory Number

Trunk Type: Valid trunk type: 1 = ground start trunk
2 = loop start trunk
3 = E & M Type I (regular) trunk
4 = E & M Type I (wink) trunk
5 = E & M Type I (delay dial) trunk

Signalling Set: Specify the signalling set that characterizes this trunk's timing parameters. Valid signalling sets are 1-6. See TRUNK SIGNALLING PARAMETERS.

Release Supervision: Valid release supervision options: 1 = release supervision provided by CO
2 = release supervision not provided by CO

Ring Status: One to three digits to specify ring status.

- 1 - ring bit set (trunk will do single ring instead of double ring)
2 - interrupt bit set (trunk will not intercept to operator).
3 - no answer bit set (no timeout will be implemented, thus, trunk will keep ringing if no answer.)

ATTENDANT GROUP DEFINITION

Function: Define the various parameters governing the operation of the attendant group. Specify the console(s) which belong to the attendant group.

Fields:

Attendant Group: Valid group number 1-8.

Add 50 to group number to specify "special attendant group." A special attendant group is an attendant group with no attendants. Special attendant groups are needed primarily for their UNA info for direct line trunks.

Operator Recall Timeout: Valid timeout values 2-254 (seconds).

Paging Equipment: Valid paging equipment number 1-512. If no paging equipment is available then DELETE is depressed.

Note: Add 1000 to paging equipment if equipment is a trunk.

Note: Paging equipment should be designated as a passive device.

"UNA" Equipment Number: Valid UNA equipment number 1-512.

Dial "0" Limit: Valid limit number 1-255.

"ANA" Directory Number: A 1-4 digit station directory number (previously defined) is valid.

Attendant Position: Each attendant position will display one of the following:

- 1 = this attendant position is currently not being used
- 2 = current attendant group has console at this position
- 4 = this attendant position is used by different attendant group

The following can be specified at each position:

- 1 = current attendant group does not have console at this position
- 2 = current attendant group has a console at this position

Note: A valid attendant group should have at least one attendant.

TRUNK GROUP DEFINITION

Function: Group various trunk equipment into specific trunk groups.

Fields:

Trunk Group: Valid trunk group number 1-32.

Group Members: Trunk equipment numbers which belong to the corresponding group.

Note: Maximum number of members in a group is 128.

Note: A trunk equipment can belong to more than one trunk group.

Note: In a multi-cabinet environment a trunk group which has no members in the current cabinet, but does have members in the other cabinet, is specified by using a "200" in the member's field.

TRUNK GROUP ACCESS ASSIGNMENTS

Function: Designate which trunk group will be accessed for the specified class of service and trunk group access code.

Fields:

Item Number: Valid item number 50-55.

Trunk Group Assignments: Specify the trunk group number which the current class of service will access when the corresponding trunk group access code is dialed.

HOTLINE STATION DESTINATION DIRECTORY NUMBER ASSIGNMENT

Function: Designate the destination directory number for a station configured as a hotline.

Fields:

Hotline Station Equipment: Valid hotline station equipment must have been previously configured as a hotline via the STATION EQUIPMENT DEFINITION.

Destination Directory Number: Any previously defined station directory number.

ABBREVIATED DIALING CODE DESTINATION

Function: Designate the destination equipment of the various abbreviated dialing codes.

Fields:

Abbreviated Dialing Code: Valid dialing code number 1-8.

Destination Equipment: Valid destination equipment are either station equipments or attendant groups. Attendant groups 1-8 are specified by the numbers 601-608. 600 is used to specify the attendant group corresponding to that defined for the station dialing the Abbrev. Dialing Code.

FEATURE PACKAGE

Function: Provide a means to expand the number of FUNCTION "keys" in the CDMS system. All of these additional function keys are associated with customer data forms required by the optional feature packages (Business I, Business II, etc).

Fields:

Feature Package: Valid feature package numbers are indicated on the corresponding customer data form. [Example: Feature Package "300" is the function "key" for Station Hunt Groups (Business I)].

BUSINESS I FEATURE - STATION HUNT GROUP DEFINITION

Function: Designate which stations belong to a specific hunt group. Specify which calls trigger hunting and what method of hunting is performed.

Fields:

Hunt Group: Valid hunt group number 1-31.

Group Members - Equipment: Specify which station equipments belong to the current hunt group. In order to remove a station equipment from the current hunt group, the DELETE key is used.

Note: Maximum number of members in a hunt group is 64.

Group Members - Options: Specify the hunting options associated with the corresponding equipment. Up to 3 digits can be entered to specify the options.

Valid options: blank = slave
1 = master/slave
2 = master
3 = circular hunting
4 = only attendant or trunk calls to the hunt master can trigger*
the hunting mechanism

Note: Option blank (slave is mutually exclusive with the group of options 1,2,3,4).

Option 1 and 2 are mutually exclusive.

Option 1 (master/slave) designates a station which is concurrently a master and a slave in the current hunt group.

If option 3 is not specified the hunt master will have terminal hunting.

If option 4 is not specified the hunt mechanism will be triggered* by all calls to the hunt master.

A station configured as a hotline cannot be designated as a hunt master (option 1 or 2).

Note: A station equipment can belong to more than one hunt group. However, a station equipment can be designated as a hunt master in only one hunt group (ie, a station equipment can be a slave in more than one group but can be a hunt master in only a single group).

*"Trigger the hunting mechanism" does not mean hunting will occur. Hunting is initiated only if the hunting mechanism is triggered and the hunt master is busy.

BUSINESS I FEATURE - TOLL RESTRICTION TABLES

Function: Specify the toll tables used in the toll restriction feature. The toll tables designate which area codes (or office codes or digits) are denied (or receive special treatment) when dialed on a trunk.

Note: The toll restriction feature only monitors digits dialed on a trunk. It does not monitor digits dialed to access a trunk.

Fields:

Toll Table: Valid table number 1-64.

Table Types: 1 - "Special Treatment" table
3 - "3-Digit" table
6 - "6-Digit" table

Table Entries: Valid table entries are determined by the corresponding table type.

"Special Treatment" Table: This table is used to designate which digits or sequences of digits are to receive special treatment. Special treatment refers to any of the following: deny, allow, ignore, or absorb.

Table Entries: Any number of special treatment designations can be entered. Special treatment designations are of the form:

0d - Allow Digit
1d - Deny Digit
2d - Ignore Digit
3d - Ignore-Repeat Digit
4d - Absorb Digit
5d - Absorb-Repeat Digit
6ddd - Ignore 3-Digit Sequence
7ddd - Absorb 3-Digit Sequence
8ddd - Allow 3-Digit Sequence
9ddd - Deny 3-Digit Sequence

Allow Digit: No additional toll restriction checking is done if first digit matches "Allow Digit."

Deny Digit: The call is denied if the first digit dialed on the trunk matches this "Deny Digit."

Ignore Digit: If this "Ignore Digit" is dialed, the digit is outputted on the trunk and is ignored by the toll restriction feature.

Ignore-Repeat Digit: Similar to Ignore Digit except performed on an unbroken sequence of identical digits. (Example: If Ignore-Repeat "8" is specified, the toll restriction feature will check the "6", "3", "5" digits and ignore the "8s" in the dialing sequence "638-8885".

Absorb Digit: If this "Absorb Digit" is dialed the digit is not outputted on the trunk and is ignored by the toll restriction feature.

Absorb-Repeat Digit: Similar to Absorb Digit except performed on an unbroken sequence of identical digits.

Ignore 3-Digit Sequence: Similar to Ignore Digit except performed on the specified 3-digit sequence. Differs from Ignore-Repeat Digit in that Ignore 3-Digit sequence will check on sequence of 3 digits that are not necessarily identical.

Absorb 3-Digit Sequence: Similar to Absorb Digit except performed on the specified 3-Digit Sequence. Differs from Absorb-Repeat Digit in that Absorb 3-Digit sequence will check a sequence of 3 digits that are not necessarily identical.

Allow 3-Digit Sequence: No additional toll restriction checking is done after the corresponding 3-digit sequence is dialed.

Note: 3-Digit Sequence is limited to first 3 digits dialed on the trunk.

Deny 3-Digit Sequence: The call is denied if the corresponding 3-digit sequence is dialed.

Note: 3-Digit Sequence is limited to first 3 digits dialed on the trunk.

"3-Digit" Table: This table is used to designate which 3-digit sequences (area codes or office codes) are denied (or allowed).

Table Entries: Any number of 3-digit sequences can be entered.

"6-Digit" Table: This table is used to designate which office codes are denied (or allowed) in a specific area code.

Table Entries: Each table entry consists of an area code and an associated "3-Digit" table number. The corresponding "3-Digit" table should contain the office codes which are restricted in the specified area code. Any number of table entries are permitted.

BUSINESS I FEATURE - TOLL SET DEFINITION

Function: Specify the various toll restriction schemes to be performed on outgoing calls.

Fields:

Trunk Group: Valid trunk group 1-32.

Note: All trunks within the trunk group are subject to the corresponding toll restriction scheme.

Note: A single trunk may belong to several different trunk groups. The toll restriction scheme to be used is determined from how the trunk was obtained (trunk group access).

CO Type: Valid CO type: 1.

Area Code Table: Valid table number 0-64*. The corresponding trunk group is denied (or allowed) area codes specified in the area code tables ("3-Digit" Table).

Area-Office Table: Valid table number 0-64*. The corresponding trunk group is denied (or allowed) office codes in specific area codes as designated in the area-office linkage table ("6-Digit" Table).

Office Code Table: Valid table number 0-64*. The corresponding trunk group is denied (or allowed) office codes specified in the office code table ("3-Digit" Table).

Special Treatment Table: Valid table number 0-64. The corresponding trunk group is monitored for special treatment of dialed digits as specified by the special treatment table.

Note: If the corresponding trunk group does not have restrictions as specified by the various tables (Area Code, Area-Office, Office Code, or Special Treatment) a "0" will be displayed as the table number.

*Note: 1) Table numbers 1-64 indicate that the table contains codes which the trunk group is allowed to dial.

Adding 100 to the table number (ie, 65-128) indicates that the table contains codes which the trunk group is not allowed to dial).

2) Zero (0) entered as a table number indicates no toll test for the toll type.

BUSINESS II FEATURE - TIMER PARAMETERS

Function: Specify the various timer parameters which are required by features offered in Business II Feature Package.

Fields:

Timer Parameters: Timer parameter values are specified in terms of seconds. Valid timer parameter values range from 0 (0 seconds) to 7620 (127 minutes).

The switch is initially configured with timer parameters enclosed in parantheses.

Note: Due to the manner in which timer parameters are represented within the switch, data truncation may cause the timer parameter value to differ from what was entered. The CDMS system will display the actual timer parameter value stored within the switch. (Example: If a timer parameter value of 53 (53 seconds) is inserted, the actual timer parameter value will be truncated to 52 (52 seconds).

BUSINESS FEATURE II - TIMER PARAMETERS

Automatic Callback Timer 1

This timer represents the amount of time to wait until the busy station/trunk becomes idle. If the timer expires, then the station/trunk is still busy and the callback request is removed.

Automatic Callback Timer 2

This timer represents the amount of time to wait until a trunk becomes available from a trunk group request. If the timer expires, the trunk group request is removed.

Automatic Callback Timer 3

This timer represents the amount of time the requesting station has to become idle (the requested busy party has become available, but the requesting station is now busy). If the timer expires, the callback request is removed.

Automatic Callback Timer 4

This timer represents the amount of time the requesting station has to answer the telephone (the telephone is ringing). If the timer expires, the callback request is removed.

Call Forwarding Timer 1

This timer represents the amount of time a station will ring until call forwarding no answer is invoked. If the timer expires, the phone will stop ringing and the no answer phone will begin ringing.

Call Waiting Timer 1

This timer represents the amount of time a station will wait until call waiting is automatically invoked. If the timer expires, a call waiting tone is given to the called busy party.

Call Park Timer 1

This timer represents the amount of time a trunk will wait in call park. If the timer expires, the trunk will be removed from call park and will recall the attendant group.

BUSINESS II FEATURE - STATION PICKUP GROUP DEFINITION

Function: Designate which stations belong to a specific pickup group.

Fields:

Pickup Group: Valid pickup group number 1-63.

Group Members: Specify which station equipments belong to the current pickup group.

To prevent other members of the pickup group from picking up calls to the specified station, add 1000 to the station equipment number. (Example: 1047 designates that station equipment 47 is a member of the current pickup group but calls to equipment 47 cannot be picked up by other members of the current pickup group. Equipment 47, however, can pickup calls to other members of the current hunt group). In order to remove a station equipment from the current pickup group, the DELETE key is used.

Note: A station equipment can belong to only one station pickup group.

BUSINESS III FEATURE - PRIORITY CALLING DEFINITION

Function: Specifies which stations have the priority calling feature.

Fields:

Priority Calling Equipment: Specify which station equipments have the priority calling feature. An equipment has the priority calling feature either activated (INSERT) or deactivated (DELETE).

SMDR - CALL RECORD PARAMETERS

FUNCTION: Specify operating parameters for SMDR.

FIELDS:

Record Format: Specify format of SMDR output.
0 - 2 line
1 - Short
2 - FP 15 Bell

Line Feeds: Specify # of extra line feeds between call records.
0 - None
1 - 3 extra

Directory # Format: Specify format of directory # in call record.
0 - 4 digit directory #.
1 - Tenant # followed by first 3 digits of directory #.

No SMDR Blocks: Specify system response if there are not enough RAM blocks to capture SMDR record information.
0 - Ignore SMDR records
1 - Direct outgoing trunk calls to attendant.

Answer Time: Specify time interval that system waits before the call is considered answered.
Valid data 2-60 seconds specified in timing of seconds (truncated to even number).

SMDR - MINIMUM CALL DURATION

Function: A SMDR call record will be printed for a call which lasts more than, or equal to, the specified duration. A call lasting a shorter duration will not have an associated SMDR call record printed.

Fields: Minimum call duration specified in terms of seconds (0-255 seconds).

SPEED CALL - TIMING PARAMETERS

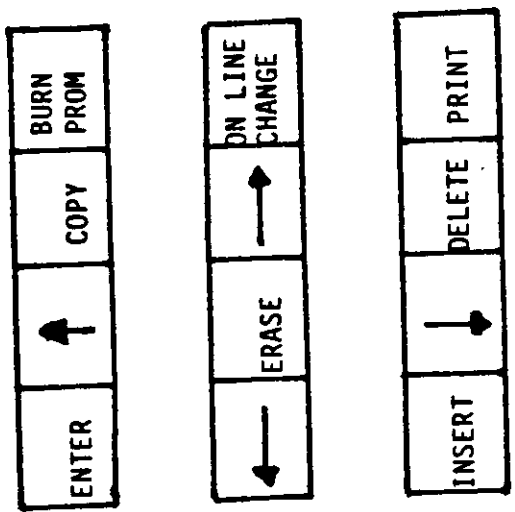
Function: Specify timing parameters for Speed Call

Fields:

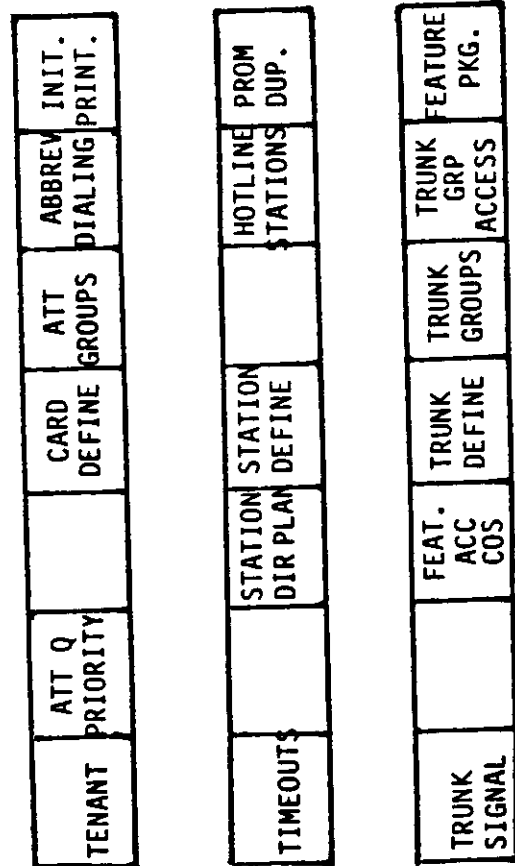
- No Redial: Redial number retained for specified duration (duration starts from moment last number dialed is saved for redial)
2-254 minutes (specified in 2 minute intervals).
- DTMF Digit: Duration of "ON" and "OFF" periods of encoded DTMF digit.
50-2500 milliseconds (specified in 25 millisecond intervals).
- Pause Delay: Duration of "pause" specified in speed dialing.
2-300 seconds (specified in 2 second intervals).
- Dial Delay: Maximum time speed dial feature will wait for dial tone.
100-1000 milliseconds (specified in 100 millisecond intervals).

REV: 2/1/83

DATA FORMS



1	2	3
4	5	6
7	8	9
*	0	#



CONTROL KEYS

DIGIT KEYS

FUNCTION KEYS

FIGURE 1 - CONSOLE OVERLAY

TELEPHONE	COMMON TELEPHONE DESIGNATION
TELEPHONE	(1)
CABINET	(1)

ATTENDANT QUEUE PRIORITIES

ATTENDANT QUEUE PRIORITY

OPERATOR CALL	INCOMING ANSWER	INTERCEPT	OPERATOR RECALL	AUTOMATIC RECALL	HOLD	LOCK OUT
(6)	(2)	(3)	(5)	(4)	(7)	(1)

TIME-OUTS	SYSTEM TIME-OUTS
-----------	------------------

OFF HOOK	SWITCH HOOK	HOWLER ALERT	HOWLER DURATION	STATION DIAL DONE	TRUNK DIAL DONE	TRUNK FIRST DIGIT	CONFIRMATION TONE	CALL HOLD	EQUIPMENT BUSY
(3)	(12)	(300)	(150)	(30)	(60)	(300)	(10)	(600)	(20)

STATION DIRECTORY PLAN

ABBREVIATED DIALING

DIRECTORY PLAN	CLASS OF SERVICE															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

ABBREVIATED DIALING CODE	DESTINATION EQUIPMENT
1	
2	
3	
4	
5	
6	
7	
8	

STATION DIRECT PLAN

FEATURE ACCESS CODES/CLASS OF SERVICE

CLASS OF SERVICE

FEAT.
ACC.
COS

Option Number	DESCRIPTION	Option Number	Access Code	CLASS OF SERVICE																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
1	Override Dialing Restrictions	1																				
2	- - - -	2																				
3	Automatic Trunk Queuing	3																				
4	Automatic Call Waiting	4																				
5	- - - -	5																				
6	Allow Trunk-Trunk Consultation	6																				
7	Executive Class	7																				
8	Switch Hook Not Allowed	8																				
32	Digital Clock	32																				
33	Test Tone	33																				
34	TAFAS	34																				
35	Paging	35																				
36	Hold 1	36																				
37	Hold 2	37																				
38	Hold 3	38																				
50	Trunk Group Access Code 1	50																				
51	Trunk Group Access Code 2	51																				
52	Trunk Group Access Code 3	52																				
53	Trunk Group Access Code 4	53																				
54	Trunk Group Access Code 5	54																				
55	Trunk Group Access Code 6	55																				

FEATURE ACCESS CODES/CLASS OF SERVICE

FEAT. ACC. COS	Option Number	DESCRIPTION	Option Number	Access Code	CLASS OF SERVICE																
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	60	Abbreviated Dialing Code 1	60																		
	61	Abbreviated Dialing Code 2	61																		
	62	Abbreviated Dialing Code 3	62																		
	63	Abbreviated Dialing Code 4	63																		
	64	Abbreviated Dialing Code 5	64																		
	65	Abbreviated Dialing Code 6	65																		
	66	Abbreviated Dialing Code 7	66																		
	67	Abbreviated Dialing Code 8	67																		
	300	Station Forced Busy Invoke	300																		
	301	Station Forced Busy Cancel	301																		
	302	Trunk Forced Busy Invoke	302																		
	303	Trunk Forced Busy Cancel	303																		
	304	Attendant Control of Trunk Group Access Invoke	304																		
	305	Attendant Control of Trunk Group Access Cancel	305																		
	306	Controlled Total Restriction Invoke	306																		
	307	Controlled Total Restriction Cancel	307																		
	308	Message Waiting	308																		
	400	Automatic Call Back Invoke	400																		
	401	Call Forward - All Call Invoke	401																		
	402	Call Forward - Busy Invoke	402																		
	403	Call Forward - Busy/No Answer Invoke	403																		
	404	Call Forward - No Answer Invoke	404																		

FEATURE ACCESS CODES/CLASS OF SERVICE

FEAT. ACC. COS	Option Number	DESCRIPTION	Option Number	Access Code	CLASS OF SERVICE																	
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	405	Selective Cancellation Invoke	405																			
	406	Group Call Pickup Invoke	406																			
	407	Selective Call Pickup Invoke	407																			
	408	Call Park Invoke	408																			
	500	Executive Override	500																			
	501	Station Verification	501																			
	502	Trunk Verification	502																			
	503	Conference/Merge	503																			
	504	Call Splitting Talk Extension	504																			
	505	Call Splitting Talk City	505																			
	800	Incoming Account Code Entry	800																			
	801	Outgoing Account Code Entry	801																			
	802	Clear RAM Limit Alarm	802																			
	1000	Remote Access	1000																			
	1100	Debug Facility	1100																			
	1300	Invoke Speed Dial	1300																			
	1301	Update Speed Dial Table	1301																			
	1302	Save Last Number Dialed for Re-Dial	1302																			
	1400	Traffic Maintenance	1400																			

Trunk Signal

TRUNK SIGNALING PARAMETERS

SIGNALING PARAMETERS																
Signal Set	Parameter 1	Parameter 2	Parameter 3	Parameter 4	Parameter 5	Parameter 6	Parameter 7	Parameter 8	Parameter 9	Parameter 10	Parameter 11	Parameter 12	Parameter 13	Parameter 14	Parameter 15	Parameter 16
Ground Start	(1000)	(400)	(1500)	(400)	(850)	(3000)	(250)	(800)	(150)	(600)	-	-	-	-	-	-
Loop Start	(800)	(400)	(1500)	(4500)	(850)	(800)	(2000)	(800)	(150)	(0)	-	-	-	-	-	-
E + M	(50)	(400)	(300)	(200)	(500)	(100)	0	(150)	(100)	(100)	(50)	(300)	(300)	(200)	-	-
4																
5																
6																

Card Slot Define

CARD SLOT DEFINITION

CARD SLOT																
Card Type	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6

STATION
DEFINE

STATION EQUIPMENT DEFINITION

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DTMF OR ROTARY PASSIVE	ACTIVE OR PASSIVE
1								
2								
3								
4								
5								
6								
7								
8								

CARD 1

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DTMF OR ROTARY PASSIVE	ACTIVE OR PASSIVE
9								
10								
11								
12								
13								
14								
15								
16								

CARD 2

**STATION
DEFINE**

STATION EQUIPMENT DEFINITION

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DTP OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
17								
18								
19								
20								
21								
22								
23								
24								

CARD 3

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DTP OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
25								
26								
27								
28								
29								
30								
31								
32								

CARD 4

STATION
DEFINITION

STATION EQUIPMENT DEFINITION

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DIME OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
33								
34								
35								
36								
37								
38								
39								
40								

CARD 5

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DIME OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
41								
42								
43								
44								
45								
46								
47								
48								

CARD 6

STATION
DEFINE

STATION EQUIPMENT DEFINITION

SERVICE EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DUMP OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
49								
50								
51								
52								
53								
54								
55								
56								

CARD 7

SERVICE EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DUMP OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
57								
58								
59								
60								
61								
62								
63								
64								

CARD 8

STATION
DEFINE

STATION EQUIPMENT DEFINITION

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	TIME OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
65								
66								
67								
68								
69								
70								
71								
72								

CARD 9

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	TIME OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
73								
74								
75								
76								
77								
78								
79								
80								

CARD 10

STATION
DEFINE

STATION EQUIPMENT DEFINITION

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATIN GROUP	ORIG TYPE	TERM TYPE	DTMF OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
81								
82								
83								
84								
85								
86								
87								
88								

CARD 11

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATIN GROUP	ORIG TYPE	TERM TYPE	DTMF OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
89								
90								
91								
92								
93								
94								
95								
96								

CARD 12

STATION
DEFINE

STATION EQUIPMENT DEFINITION

STATION EQUIPMENT NUMBER	TEAM/AT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DUMP OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
97								
98								
99								
100								
101								
102								
103								
104								

CARD 13

STATION EQUIPMENT NUMBER	TEAM/AT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DUMP OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
105								
106								
107								
108								
109								
110								
111								
112								

CARD 14

STATION
DEFINITION

STATION EQUIPMENT DEFINITION

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DWF OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
113								
114								
115								
116								
117								
118								
119								
120								

CARD 15

STATION EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTN GROUP	ORIG TYPE	TERM TYPE	DWF OR ROTARY/PASSIVE	ACTIVE OR PASSIVE
121								
122								
123								
124								
125								
126								
127								
128								

CARD 16

**TRUNK
DEFINITION**

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATION TYPE	TERMINATION TYPE	DMP OR ROTARY	ACTIVE OR PASSIVE	POSITION OR DIRECT LINE DIR NUMBER	OR NIGHT LINE DIR NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER - VISION	RING STATUS
1														
2														
3														
4														

CARD 1

9														
10														
11														
12														

CARD 2

**TRUNK
DEFINE**

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATION TYPE	TERMINATION TYPE	DTMF OR ROTARY	ACTIVE OR PASSIVE	POSITION OR DIRECT LINE DIR NUMBER	ASSIGNED ANSWR LINE DIRECT NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER- VISION	RING STATUS
17														
18														
19														
20														

CARD 3

25														
26														
27														
28														

CARD 4

TRUNK
DEFINE

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TRUNK GROUP NUMBER	TRUNK GROUP NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATION TYPE	TERMINATION TYPE	DINP OR ROTARY	ACTIVE OR PASSIVE	POSITION OR DIRECT LINE DIRECTORY NUMBER	ASSIGNED NIGHT ANSWER DIRECTORY NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER- VISION	RING STATUS
33														
34														
35														
36														

CARD 5

41														
42														
43														
44														

CARD 6

TRUNK
DEFINE

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATION TYPE	TERMINATION TYPE	DMF OR ROTARY	ACTIVE OR PASSIVE	POSITION OR DIRECT LINE DIRECTORY NUMBER	ASSIGNED NIGHT ANSWER DIRECTORY NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER- VISION	RING STATUS
49														
50														
51														
52														

CARD 7

57														
58														
59														
60														

CARD 8

TRUNK
DEFINE

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATION TYPE	TERMINATION TYPE	DTE OR ROTARY	ACTIVE OR PASSIVE	POSITION OR DIRECT LINE DIRECTORY NUMBER	ASSIGNED NIGHT ANSWER DIRECTORY NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER- VISION	RING STATUS
65														
66														
67														
68														

CARD 9

73														
74														
75														
76														

CARD 10

TRUNK
DEFINITION

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATOR TYPE	TERMINATION TYPE	D/NF OR ROTARY	ACTIVE OR PASSIVE	POSITION OR DIRECT LINE DIRECTORY NUMBER	ASSIGNED NIGHT ANSWER DIRECTORY NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER- VISION	RING STATUS
81														
82														
83														
84														

CARD 11

89														
90														
91														
92														

CARD 12

TRUNK
DEFINE

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TRUNK GROUP NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATOR TYPE	TERMINATION TYPE	DTMF OR ROTARY	ACTIVE OR PASSIVE	POSITION OR DIRECT LINE DIRECTORY NUMBER	ASSIGNED NIGHT ANSWER DIRECTORY NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER- VISION	RING STATUS
97													
98													
99													
100													

CARD 13

105													
106													
107													
108													

CARD 14

TRUNK
DEFINE

TRUNK EQUIPMENT DEFINITION

TRUNK EQUIPMENT NUMBER	TENANT GROUP	DIRECTORY NUMBER	CLASS OF SERVICE	ATTEND GROUP	ORIGINATION TYPE	TERMINATION TYPE	DMP OR ROTARY	ACTIVE OR PASSIVE	POSITION OF DIRECT L/N DIRECTORY NUMBER	ASSIGNED ANSWR DIRECTORY NUMBER	TRUNK TYPE	SIGNALING SET	RELEASE SUPER- VISION	RING STATUS
113														
114														
115														
116														

CNO 15

121														
122														
123														
124														

CNO 16

ATTEND GROUP

ATTENDANT GROUP DEFINITION

ATTENDANT GROUP	OPERATOR RECALL TIMEOUT	PAGING EQUIPMENT	"UNA" EQUIPMENT	DIAL "O" LIMIT	"ONA" DIRECTORY NUMBER	ATTENDANT POSITION													
						1	2	3	4	5	6	7	8	9	10	11	12		

HOTLINE STATION

HOTLINE STATION DESTINATION DIRECTORY NUMBER ASSIGNMENT

HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER	HOTLINE STATION EQUIPMENT	DESTINATION DIRECTORY NUMBER		

TRL
GROUP

TRUNK GROUP DEFINITION

TRUNK GROUP	GROUP MEMBERS (TRUNK EQUIPMENT)															

TRUNK
GROUP
ACCESS

TRUNK GROUP ACCESS ASSIGNMENTS

ITEM NUMBER	CLASS OF SERVICE															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
50																
51																
52																
53																
54																
55																

FEATURE
PACKAGE

300

BUSINESS I FEATURE - STATION HUNT GROUP DEFINITION

HUNT GROUP	GROUP MEMBERS (STATION EQUIPMENT/HUNT OPTIONS)													
	EQ #	OPT #	EQ #	OPT #	EQ #	OPT #	EQ #	OPT #	EQ #	OPT #	EQ #	OPT #	EQ #	OPT #

FEATURE PACKAGE

301 INSERT

BUSINESS I FEATURE - TOLL RESTRICTION TABLES

TOLL TABLE	TABLE TYPE	TABLE ENTRIES
XX INSERT XXX = 1-64	X INSERT X = 1, 3, 6	XXX INSERT or XX# INSERT XXX = code 0 = range : 0-9

ENTER

ENTER

FEATURE PACKAGE

302

INSERT

BUSINESS 1 FEATURE - TOLL SETS

TRUNK GROUP	CO TYPE (DIALING METH)	AREA CODE (TYPE 3 TABLE)	AREA-OFFICE (TYPE 6 TABLE)	OFFICE CODE (TYPE 3 TABLE)	SPECIAL TREATMENT (TYPE 1 TABLE)
XX <u>INSERT</u> XX = 1-32	X <u>INSERT</u> X = 1, 2, 3	XXX <u>INSERT</u> XX=1-64=allow 1XX = deny	XXX <u>INSERT</u> XX=1-64=allow 1XX = deny	XXX <u>INSERT</u> XX=1-64=allow 1XX = deny	XX <u>INSERT</u> XX = 1-64

FEATURE PACKAGE

400

BUSINESS II FEATURE PACKAGE - TIMER PARAMETERS

AUTOMATIC CALLBACK TIMER 1	AUTOMATIC CALLBACK TIMER 2	AUTOMATIC CALLBACK TIMER 3	AUTOMATIC CALLBACK TIMER 4	CALL FORWARDING TIMER 1	CALL WAITING TIMER 1	CALL PARK TIMER 1
300	300	300	30	20	2	30

FEATURE PACKAGE

401

BUSINESS II FEATURE PACKAGE - STATION PICKUP GROUP DEFINITION

PICKUP GROUP	GROUP MEMBERS (STATION EQUIPMENT)																								

FEATURE PACKAGE

500

BUSINESS 3 FEATURE - PRIORITY CALLING DEFINITION

PRIORITY CALLING EQUIPMENT (Station Equipment)											

FEATURE
PACKAGE

800

SMDR - NO LOCAL CALL RECORDS

TENANT WHO DO NOT WANT LOCAL CALL RECORDS									

FEATURE
PACKAGE

801

SMDR - ACCOUNT CLASSES

CLASSES WHICH MUST ENTER SMDR ACCOUNT CODES									

FEATURE
PACKAGE

807

SMDR - MINIMUM CALL DURATION

MINIMUM CALL DURATION							
TENANT 1	TENANT 2	TENANT 3	TENANT 4	TENANT 5	TENANT 6	TENANT 7	TENANT 8

FEATURE PACKAGE

805

SMDR - SECONDARY TRUNK ACCESS CODES

TRUNK GROUP	SECONDARY TRUNK ACCESS CODES																			

REMOTE ACCESS - TIMING CONSTANTS AND PASSWORDS

FEATURE PACKAGE 1000

ALRNDP TIME =	TONE TIMEOUT =	BEEP TIMEOUT =	ACCESS TIMEOUT =	SELFST PSM =	COS PASSWORD =	TSTDMR - MRRM =	.REL TIMEOUT =
0 - 254 (12)	0 - 254 (4)	4 - 254 (4)	0 - 254 (12)	X = 0 - 9, *, # (1234)	XX = 0 - 9, *, # (5678)	XX = 0-24, YY=09 (2400)	5 - 200 (35)

FEATURE PACKAGE 1001

REMOTE ACCESS - PRIORITY PORTS

PRIORITY PORT NUMBER (Station, Trunk, or Attendant)	1 - 128									

FEATURE PACKAGE 1002

REMOTE ACCESS - ACCESS PORTS

ACCESS PORT NUMBER	1 - 128 (TRUNK)									

FEATURE
PACKAGE

1100

ON-LINE DEBUG - PASS WORD

PASS WORD TO DEBUG FACILITIES	
-------------------------------------	--

FEATURE
PACKAGE

1300

SPEED CALL - SPEED DIAL COMMON TABLE ACCESS

COMMON TABLE	CLASSES OF SERVICE WHICH CAN ACCESS COMMON TABLE															
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
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FEATURE
3
PACKAGE

1303

SPEED CALL - TIMING PARAMETERS

No	ReDial	DTMF Digit	Pause Delay	Dial Tone Delay

Operator Recall Tests:

1. Have STA 3 talking to STA 1, then switchhook from STA 3. Have STA 3 dial "0" and then hang up.
 - a. Verify OPER RCL LED is flashing. _____
 - b. Console is ringing. _____
 - c. OPER RCL lamp is on momentarily. _____
 - d. TALK EXT LED is on. _____
 - e. Verify STA 1 and the console are talking. _____
 - f. Console stops ringing. _____
2. Switchhook STA 1 and dial STA 2.
 - Verify STA 1, STA 2 and console are talking. _____
3. Depress RLSE keyswitch.
 - a. Verify STA 1 and STA 2 are talking. _____
 - b. Console is idle. _____
4. Hang up STA 1 and STA 2. _____

Answer Call Tests:

1. Lift receiver on STA 3 and dial "9". Dial the telephone number for trunk line T2.
 - a. Console is ringing. _____
 - b. ANSW LED is flashing. _____
 - c. The busy LED on the trunk card is in the ringing pattern for trunk T2. _____
2. Depress ANSW keyswitch.
 - a. ANSW LED is on momentarily. _____
 - b. Verify console and STA 3 are talking. _____
 - c. Console stops ringing. _____
 - d. TALK CITY LED is on. _____
 - e. The busy LEDs for both trunks are on. _____
3. Hang up STA 3.
 - a. TALK CITY LED is off. _____
 - b. The busy LEDs for both trunks are off. _____

Auto Recall Tests:

1. Have STA 1 dial "9" and then the other trunk. Depress ANSW, SNDR, dial STA 2 and then depress RLSE key. Wait 30 seconds. _____

- a. Console is ringing. _____
- b. AUTO RCL LED is flashing. _____
- c. STA 2 is still ringing. _____
2. Depress AUTO RCL keyswitch.
 - a. AUTO RCL LED is on momentarily. _____
 - b. TALK CITY led is on and console stops ringing. _____
 - c. STA 2 stops ringing. _____
 - d. Verify STA 1 and console are talking. _____
3. Depress CNCL key and hand up STA 1.
 - a. TALK CITY LED is off. _____
 - b. Console is blank. _____
 - c. Both trunk busy LEDs are off. _____

Intercept Tests:

1. From STA 1, dial "9" and then the other trunk. Depress ANSW and SNDR keys and dial 500.
 - Verify console has equipment busy tone. _____
2. Depress RLSE keyswitch.
 - a. INCPT LED is flashing. _____
 - b. Console is ringing. _____
 - c. STA 1 has ringback. _____
3. Depress INCPT keyswitch.
 - a. INCPT LED is on momentarily. _____
 - b. TALK CITY LED is on. _____
 - c. Verify STA 1 and console are talking. _____
 - d. Class and extension for STA 1 trunk is displayed. _____
4. Hang up STA 1.
 - Console is blank. _____

Console Hold Tests:

1. Depress SNDR, dial STA 1, and answer STA 1. _____
2. Depress SNDR, dial STA 2, and answer STA 2. _____
3. Depress BOTH TALK keyswitch.
 - a. Verify STA 1, STA 2, and console are talking. _____
 - b. Class and extensions for STA 1 and STA 2 are displayed. _____

4. Depress the center HOLD keyswitch.
 - a. Console's display is blank. _____
 - b. Center HOLD LED is flashing. _____
 - c. Verify STA 1 and STA 2 are talking. _____
 - d. STA 1 and 2 Busy LEDs are flashing. _____
5. Depress the center HOLD keyswitch.
 - a. Verify STA 1, STA 2, and the console are talking. _____
 - b. The center HOLD LED is off. _____
 - c. Class and extensions for STA 1 and STA 2 are displayed. _____
6. Depress lower HOLD keyswitch.
 - a. Verify console is blank. _____
 - b. Verify lower HOLD LED is flashing. _____
 - c. Verify STA 2 and STA 1 are talking. _____
7. Depress lower HOLD keyswitch.
 - Verify STA 2, STA 1, and console are talking. _____
8. Depress top HOLD keyswitch.
 - a. Verify STA 2 and STA 1 are talking. _____
 - b. Top HOLD LED is flashing. _____
9. Depress top HOLD keyswitch.
 - Verify STA 2, STA 1, and console are talking. _____
10. Hang up STA 1 and STA 2. _____

Call Waiting Tests:

1. Lift the receiver at STA 1, dial STA 2, and answer STA 2. _____
2. Depress SNDR and dial STA 1.
 - Verify console has busy tone present. _____
3. Depress CALL WAIT keyswitch.
 - a. Verify CALL WAIT LED is on momentarily. _____
 - b. STA 1 hears two short beeps. _____
 - c. Console still has busy tone present. _____

4. Hang up STA 2 and then STA 1.
 - a. Verify STA 1 is ringing. _____
 - b. Console has ringback tones present. _____
5. Lift the receiver at STA 1.
 - Verify console and STA 1 are talking. _____
6. Hang up STA 1. _____

Console Hold Test:

1. Depress SNDR, dial STA 1, and answer STA 1. Depress HOLD QUE keyswitch.
 - a. HOLD QUE LED is flashing. _____
 - b. TALK EXT LED is off. _____
 - c. STA 1's busy LED is flashing. _____
 - d. STA 1 has hold tone present. _____
2. Depress HOLD QUE keyswitch.
 - a. TALK EXT LED is on. _____
 - b. Verify console and STA 1 are talking. _____
 - c. HOLD QUE LED is off. _____

Trunk Select Tests:

1. Depress TRK SEL keyswitch.
 - a. Console has dial tone present. _____
 - b. TALK EXT LED is on. _____
2. Dial the trunk directory number (last 4 digits)
 - a. The trunk's class and directory is displayed on the left side with a flashing "T". _____
 - b. Console has dial tone present. _____
 - c. TALK CITY LED is on and TALK EXT LED is off. _____
3. Dial local number for "time of day".
 - Verify the time is heard. _____
4. Depress CNCL keyswitch. _____

Console Message Waiting Tests:

1. Depress SNDR and dial assigned access code.
 - Verify console has dial tone. _____
2. Dial STA 3.
 - Verify console has confirmation dial tone present. _____

- STA 3 message waiting lamp is flashing.
- 3. Dial STA 3.
 - Verify console has ringback. _____
 - STA 3 class and extension is displayed with flashing M. _____
- 4. Depress SDPL key with field select key.
 - STA 3 busy LED is flashing. _____
- 5. Depress CNCL and SNDR keys, dial assigned access code and then STA 3.
 - Message Waiting lamp is no longer flashing. _____
 - Console has confirmation dial tone. _____
- 6. Depress SNDR and dial STA 3.
 - STA 3 class and extension is displayed without flashing M. _____
- 7. Depress CNCL keyswitch. _____

9.05 AUTOMATIC ANSWERING TESTING:

The automatic ANSW tests are divided into two groups. The first group of tests pertain to the operation of a single console while the second group tests the operation of two consoles operating simultaneously. Each console must be tested individually by the first group prior to conducting the second group of tests.

Single Console Call Distribution Tests:

1. From STA 1, dial "0". _____
2. Depress OPER keyswitch. _____
3. Depress AUTO ANSW keyswitch.
 - AUTO ANSW LED is on. _____
4. From STA 2, dial "0".
 - a. OPER LED is flashing. _____
 - b. Verify console and STA 1 are talking. _____
5. Depress CNCL keyswitch.
 - a. Console has two short beeps. _____
 - b. Verify console and STA 2 are talking. _____
 - c. TALK CITY LED is on and OPER is off. _____
6. Hang up STA 1 and STA 2.
 - Console is blank except for AUTO ANSW LED. _____

7. Depress AUTO ANSW keyswitch.
 - AUTO ANSW LED is off. _____

Multiple Console Call Distribution Tests:

1. Depress AUTO ANSW key at each console.
 - AUTO ANSW LED is on at each console. _____
2. Lift the receiver on STA 1 and dial "0" for the operator.
 - a. Console 1 has a short beep and its TALK EXT LED is on. _____
 - b. Verify console 1 and STA 1 are talking. _____
 - c. Console 2 is idle. _____
3. From STA 2, dial "0" for the operator.
 - a. Console 2 has a short beep and its TALK EXT lamp is on. _____
 - b. Verify console 2 and STA 2 are talking. _____
4. From STA 3, dial "0".
 - Both console's OPER LED is flashing. _____
5. Hang up STA 2.
 - a. Console 2 has a short beep and TALK EXT LED is on. _____
 - b. Verify Console 2 and STA 2 are talking. _____
6. Hang up STA 1 and STA 3.
 - Both consoles are idle. _____
7. Depress the AUTO ANSW at both consoles. _____

9.06 TRUNK OPERATION: The system under test must be equipped with trunk driver cards and trunk lines connected to it. The trunk lines shall be identified as T1 and T2. The console or a station may gain access to an outgoing trunk line (T1) by dialing "9". In order to gain access to the other incoming trunk line (T2), the station or console must dial its seven digit telephone number. This will cause the console to ring and the ANSW LED to flash.

Station To Trunk Call Tests:

1. Lift the receiver on STA 3 and dial "9".
 - a. Verify that the trunk's dial tone is present. _____

- b. The FABX busy LED is on for trunk T1.
- 2. Dial the telephone number for time from STA 3.
 - Verify STA 3 and the time station are talking.
- 3. Hang up STA 3.
 - The busy LED for trunk T1 is off.

Console To Trunk Call Tests:

- 1. Depress SNDR and "9" keys on the console.
 - a. Verify that the trunk's dial tone is present.
 - b. The busy LED is on for trunk T1.
 - c. TALK CITY LED is on.
 - d. T1's class and extension is displayed with a flashing "T".
- 2. Dial the number for time from the console's key pad.
 - Verify the console and time station are talking.
- 3. Depress CNCL keyswitch.
 - a. The busy LED for trunk T1 is off.
 - b. TALK CITY LED is off.
 - c. Display is clear.

Trunk To Trunk Call Tests:

- 1. From another PBX's telephone, dial "9" and then the site seven-digit number.
 - ANSW LED is flashing and console is ringing.
- 2. Depress ANSW and SNDR keys and dial "9".
 - a. Verify other telephone has hold tone.
 - b. Console has the trunk's dial tone.
 - c. Display shows the trunk's class and extension with a flashing "T" on the left side.
- 3. Depress BOTH TALK keyswitch.
 - a. Verify other telephone and console are talking and both have trunk dial tone.

- b. Display shows both trunk class and extensions with flashing "T".
- 4. Hang up the other telephone.

Trunk To No Console Answer Tests:

- 1. From STA 1 dial "9" and then the other trunk. Wait for 60 seconds.
 - a. Verify Assigned Night Answer station is ringing.
 - b. ANSW LED is flashing.
 - c. UNA bell is ringing.
- 2. Depress ANSW keyswitch.
 - a. UNA bell stops ringing.
 - b. TALK CITY LED is on.
 - c. Assigned Night Answer station stops ringing.
 - d. STA 1 and console are talking.
- 3. Hang up STA 1 . . . lift receiver, dial "9", and then the other trunk. Wait 60 seconds and lift the receiver on the assigned answer station.
 - a. Verify STA 1 and Assigned Night Answer station are talking.
 - b. ANSW LED is off and console stops ringing.
 - c. UNA bell stops ringing.
- 4. Hang up STA 1 and 3. . . lift STA 1 receiver, dial "9", and then the other trunk. Wait 60 seconds, lift the receiver on STA 2 and dial 33.
 - a. Verify STA 1 and STA 2 are talking.
 - b. ANSW LED is off and console stops ringing.
 - c. UNA bell stops ringing.
 - d. STA 3 stops ringing.
- 5. Hang up STA 1 and STA 2.

Trunk to Night Answer Tests:

- 1. Set console's mode switch to NIGHT mode position.
- 2. From STA 1 dial "9" and then the other trunk.
 - a. Verify Assigned Night Answer station is ringing.
 - b. STA 1 has ringback tone.
 - c. ANSW LED is off.

3. Lift receiver on the night answer station.
 - a. Verify STA 1 and night answer station are talking. _____
 - b. ANSW LED is off. _____

4. Hang up STA 1 and the night answer station.
Lift the receiver on STA 1, dial "9" and then the other trunk.
Set the console's mode switch to DAY position and depress ANSW keyswitch.
 - a. Verify STA 1 and console are talking. _____
 - b. Night answer station stops ringing. _____
5. Depress CNCL keyswitch. _____

Trunk To No Night Answer Tests:

1. Set console mode switch to NIGHT position. _____
2. From STA 1 dial "9" and then the other trunk. Wait 30 seconds.
 - a. Verify Assigned Night Answer station is ringing. _____
 - b. ANSW LED is off. _____
 - c. UNA bell is ringing. _____
3. Lift the receiver on the Night Answer station.
 - a. Verify STA 1 and Night Answer station are talking. _____
 - b. UNA bell stops ringing. _____
4. Hang up STA 1 and the Night Answer station. _____
5. From STA 1 dial "9" and the other trunk. Wait 30 seconds. _____
6. From STA 2 dial assigned access code.
 - a. Verify STA 1 and STA 2 are talking. _____
 - b. UNA bell stops ringing. _____
 - c. Night Answer station stops ringing. _____
7. Hang up STA 1 and STA 2. _____
8. From Night Answer station dial STA 2, and answer STA 2. _____
9. From STA 1 dial "9" and then the other trunk.
 - a. Verify Night Answer station has two short beeps present. _____
 - b. STA 1 has busy tone present. _____

10. Hang up Night Answer station and STA 2.
 - a. Verify STA 1 has ringback. _____
 - b. Night Answer station is ringing. _____

11. Answer Night Answer station.
 - Verify STA 1 and Night Answer station are talking. _____
12. Hang up STA 1 and Night Answer station. _____

Trunk To Position Busy Tests:

1. Depress POS BUSY key. _____
2. From STA 1 dial "9" and then the other trunk.
 - a. Verify Position Busy station is ringing. _____
 - b. ANSW LED is flashing. _____
 - c. Console is ringing. _____
3. Depress the ANSW keyswitch.
 - a. Verify STA 1 and console are talking. _____
 - b. ANSW LED is on momentarily. _____
 - c. TALK CITY LED is on and console stops ringing. _____
 - d. Position busy station stops ringing. _____
4. Hang up STA 1. _____
5. From STA 1, dial "9" and then the other trunk. _____
6. Lift the receiver on the Position Busy station.
 - a. Verify Position busy station and STA 1 are talking. _____
 - b. ANSW LED is off and the console stops ringing. _____
7. Hang up STA 1 and the Position Busy station. _____

Trunk To Busy No Answer Tests:

1. From STA 1 dial "9", then the other trunk, and wait 30 seconds.
 - a. ANSW LED is flashing and the console is ringing. _____
 - b. Position Busy station is ringing. _____
 - c. UNA bell is ringing. _____

2. Depress the ANSW KeySwitch.
 - a. Verify STA 1 and console are talking. _____
 - b. Position Busy station stops ringing. _____
 - c. UNA bell stops ringing. _____
3. Hang up STA 1. _____
4. From STA 1 dial "9", and then the other trunk. Wait 30 seconds and depress POS BUSY switch.
 - Verify "Standby code 99" is displayed at the console. _____
 Wait 8 seconds.
 - a. Verify Display is blank. _____
 - b. ANSW LED is flashing. _____
 - c. Console is ringing. _____
 - d. STA 1 has ringback. _____
 - e. Position Busy station stops ringing. _____
 - f. UNA bell continues to ring. _____
5. Depress ANSW keyswitch.
 - a. Verify console and STA 1 are talking. _____
 - b. TALK CITY LED is on. _____
 - c. Trunk's class and extension is displayed. _____
6. Hang up STA 1 and depress CNCL keyswitch. _____

Console Transfer Trunk Call Tests:

1. Have STA 3 dial "9" and then the other trunk. _____
2. Depress ANSW keyswitch. _____
3. Depress SNDR keyswitch.
 - a. Verify console has recall dial tone. _____
 - b. TALK CITY LED flashes. _____
 - c. TALK EXT LED is on. _____
 - d. STA 3 has hold tone present. _____
4. Dial STA 1 from the console's key pad.
 - a. Verify class and extension number for STA 1 is displayed. _____
 - b. STA 1 is ringing. _____
 - c. Verify console's receiver has ringback present. _____
5. Depress RLSE keyswitch.
 - a. Verify STA 3 has ringback present. _____
 - b. STA 1 continues to ring. _____

- c. Console display is blank. _____
- d. TALK EXT and TALK CITY LEDs are off. _____
6. Lift receiver on STA 1.
 - a. Verify STA 1 and STA 3 are talking. _____
 - b. STA 1 stops ringing. _____
7. Hang up STA 1.
 - a. Verify STA 3 is not talking. _____
 - b. Trunk busy LEDs are off. _____
8. Hang up STA 3. _____

Station Transfer Trunk Call Tests:

1. From STA 3 dial "9" and then the other trunk. _____
2. Depress ANSW, SNDR, dial STA 1, and then depress RLSE key. _____
3. Lift the receiver on STA 1. Switchhook STA 1.
 - a. Verify recall dial tone on STA 1. _____
 - b. Verify STA 3 has hold tone. _____
4. From STA 1 dial STA 2 and then hang up.
 - a. Verify STA 3 has ringback present. _____
 - b. STA 2 is ringing. _____
5. Lift the receiver on STA 2.
 - Verify STA 2 and STA 3 are talking. _____
6. Hang up STA 3.
 - a. Verify STA 3 trunk (T1) busy LED is off. _____
 - b. STA 2 trunk (T2) busy LED is off. _____
7. Hang up STA 2. _____

Station Transferred Trunk No Answer Tests:

1. From STA 1, dial "9", then the other trunk, and depress ANSW. _____
2. Depress SNDR, dial STA 2, and depress RLSE key. _____
3. Lift receiver on STA 2, switchhook, dial STA 3, and hang up. Wait 120 seconds.
 - a. Verify Assigned Night Answer station continues to ring. _____
 - b. UNA bell is ringing. _____
 - c. AUTO RCL LED is flashing. _____
 - d. Console continues ringing. _____

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|---|--|
| <p>4. Lift the receiver on STA 2 and dial 33.</p> <p>a. Verify STA 1 and STA 2 are talking. _____</p> <p>b. UNA bell stops ringing. _____</p> <p>c. AUTO RCL LED is off. _____</p> <p>d. Assigned Answer station stops ringing. _____</p> | <p>b. UNA bell stops ringing. _____</p> <p>c. Assigned Answer station stops ringing. _____</p> <p>d. Verify STA 1 and console are talking. _____</p> <p>e. Class and extension of trunk are displayed on left side of display. _____</p> |
| <p>5. Switchhook STA 2, dial STA 3, and hang up. Wait 20 seconds and depress AUTO RCL key.</p> <p>a. Verify AUTO RCL LED is on momentarily and TALK CITY LED is on. _____</p> | <p>6. Depress CNCL key and hang up STA 1.</p> <p>a. Both trunk busy LEDs are off. _____</p> <p>b. AUTO RCL and TALK CITY LEDs are off. _____</p> |

