DIMENSION® PBX

LOCAL CALL BILLING FOR FEATURE PACKAGE NO. 9

CONTENTS

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1. GENERAL

1.1 This section describes the tests to be performed whenever local call billing for FP #9 is provided.

1.2 An optional property management system interface (PMSI) may be provided to establish a data link between the Dimension PBX and a property management system (PMS). When the PMSI feature is provided, local call billing may be performed as follows:

1.2.1 The PBX perform billing function with printouts on the PBX printer specified in PMS checkout message.

1.2.2 The PMS performs billing via messages (local call data) from the PBX (This section does not provide test procedure for the PMS arrangement).

1.3 This section does not cover the local call billing feature that uses the station message unit register service for FP #3. See the appropriate section for test method.

1.4 The local call billing feature will compute the dollar amount for local calls placed by guest based on the total message units, and optionally, service charges stored for each guest room phone via the station message register service feature and the hotel/motel local call billing rate parameter.

2. RECORDS

2.1 Form SD-97-1313 is required for recording the results of these tests.

3. TEST EQUIPMENT

QTY	TYPE	DESCRIPTION
2	500 or 2500 TYPE	Telephone Set
2	249A	Adapter
1	ITE-5735	Trunk Test Set (when CO facility is not available)
1	ITE-9259	Connecting Cord (part of ITE-5735)
1		MAAP Panel

4. DOCUMENTATION

4.1 The following sections of the job COD are required:

4.1.1 System and Feature Summary

4.1.2 Station Line Assignments

4.1.3 Class of Service Assignments

4.1.4 Trunk Assignments

4.2 Section 5600 of HB 281

5. PREPARATION

5.1 From the System and Feature Summary section of the job COD, determine the station message register information whether it is generated by interval timing (one count per call or one count per minute) within the PBX or by central office via sleeve lead. Obtain the service charge (SURCHARGE CODE) for the local call billing (if not assigned, but if required, assign per local instruction).

5.2 From the Trunk Assignments section, locate the outgoing central office trunk group(s) that has been assigned with station message register service. Where sleeve leads are used, obtain the corresponding station message register circuits (LC16B).

5.3 The Trunk Carrier X-conn. section provides cross-connect information.

5.4 From the Station Line Assignments and Class of Service Assignments sections, select a hotel/motel guest room station to be used as a test station.

5.5 Insure that circuit option has been set properly on all LC16B. See step 7 for option block setting. If ITE 5735 Trunk Test set were used, go to next step for interim requirement.

5.6 When ITE-5735 Trunk Test Set and LC16B are used, it is necessary to set option block for "ground return operation with battery provided remotely (same as LC16)". See step 7 for detail information.

5.6.1 Switches on the ITE-5735 Trunk Test Set should be set for the following:

REV BATT - OFF (Center Position)

MODE - DID (if incoming trunk is to be a DID type, LC09).

2WC0 (if incoming trunk is to be an attendant console/terminal type, LC08).

METER STROKE - GRD

RESET - Switch in normal position.

5.6.2 The function of RV lamp is that when it lights which indicates the test circuit has been reversed (This should only happen when outgoing (or 2-way) trunk is connected to the right side of the test circuit).

5.6.3 Connect the ITE-5735 Test Set at the cross connect field for testing.

5.6.4 Connect the S1 lead, associated the left circuit of trunk test set, to the M lead of the LC16B at the cross connect field (S2 lead is used only when outgoing or outgoing portion of 2-way trunk is connected to the right circuit.

5.6.5 Temporarily connect the hotel/motel guest room phone (the test station) to the line circuit pack via 249A Adapter and change (OP code 9) the room status to OCNC (3) as needed.

5.6.6 Insure that an attendant console terminal is connected when the trunk test set and incoming CO trunk are used.

5.7 If message unit rate is not assigned from the manufacturer, temporarily assign a message unit rate (eg,250 is equal to $0.25) from the console/terminal by using OP Code 14. (see section 9020 of HB 282 for the operational procedures of OP Code 14 as needed).

6. PROCEDURE

6.1 Using Procedure 551, Test 1, enter the outgoing trunk group to be tested by dial access code (dial 9 for example). A trunk location should be displayed in Field 7 through 11. (See section 5600 of HB 281 for more detail information of testing CO trunk).

6.2 Temporarily connected the selected (displayed on MAAP) outgoing CO trunk and/or its associated station message register circuit (LC16B) to the CO facility or to the ITE-5735 Trunk Test Set. (When ITE-5735 Trunk Test Set is used, it is recommended to connect the right circuit (B-1 or D-2) of trunk test set to an incoming, DID or incoming CO, trunk).

6.3 Originate a central office call from the selected hotel/motel test station and hold the talking connection up for at least 2 minutes. (When ITE-5735 Trunk Test Set is used, it is required to answer the incoming call at the attendant console/terminal or station set. The proper lamp response on the trunk test set for the loop around test is: Seize, Answer and Stroke flashes once.)

6.4 Print Telephone Charges for a Room Using TEL CHGS Key (Go to Step 6.5 where printer is not assigned)

6.4.1 If necessary, place the console/terminal in the hotel/motel mode by depressing the H/M key.

A) H/M and POS BUSY lamps light
B) PA lamp extinguishes
C) Alphanumeric displays OP ---?

6.4.2 Depress the TEL CHGS key.

A) TEL CHGS lamp lights
B) Alphanumeric displays ROOM ---?

6.4.3 Dial the digit or depress the DSS key for the selected guest room number.

A) ENTER lamp flashes
B) Alphanumeric displays the dialed room number (eg, ROOM 7545).

6.4.4 Depress the ENTER key.

A) ENTER lamp extinguishes

B) NEXT lamp flashes

C) Alphanumeric displays the dialed room number and room status (eg, 7545 OCNC) (room 7545 occupied and need cleaning)

6.4.5 Depress the PRINT key

A) NEXT lamp extinguishes

B) PRINT lamp lights

C) Alpahnumeric displays room number and printer number (eg, 7545 P 2)
(Note: Depressing RESTART or H/M key while telephone charges report is being printed will abort the printout.)

D) Assigned printer prints out a telephone charges report. Two examples are shown below (first example is when the phone is still in use; second example is when the 1st call is completed.)

First Example:

ROOM 7545 TELEPHONE CHGS.
10/01/79 08:30 P-02

TELEPHONE BUSY

000 LC 0001 MU $0000.25

END

L 7545 08:32 MU 0001 C 001 (See Note 1)

Note 1: The local billing audit trail message prints the totals of message units and calls for a room each time a local call is completed.

Second Example:

ROOM 7545 TELEPHONE CHGS
10/01/79 08:32 P-02

001 LC 001 MU $0000.25
LC SVC 000.25
** LC TOTAL $0000.50**

END

6.4.6 When printout is completed, console/terminal indicates:

A) RESTART lamp flashes

B) Alphanumeric displays the room number and END (eg, 7545 END)

6.4.7 Go to Step 6.6.

6.5 Display Telephone Charges for a Room Using TEL CHGS Key

6.5.1 If necessary, place the console/terminal in the hotel/motel mode by depressing the H/M key.

A) H/M and POS BUSY lamps light

B) PA lamp extinguishes

C) Alphanumeric displays OP ---?

6.5.2 Depress the TEL CHGS key.

A) TEL CHGS lamp lights

B) Alphanumeric displays ROOM ---?

6.5.3 Dial the digits or depress the DSS key for the selected guest room number.

A) ENTER lamp flashes

B) Alphanumeric displays the dialed room number (eg, ROOM 7545)

6.5.4 Depress the ENTER key.

A) ENTER lamp extinguished

B) NEXT lamp flashes

C) Alphanumeric displays the dialed room number and room status (eg, 7545 OCNC) (room 7545 occupied and need cleaning)

6.5.5 Depress the NEXT key.

A) NEXT lamp flashes

B) Alphanumeric displays the local call charges for the room (eg, LC 00.50) (total local call charges $0.50)
(Note: LC@displayed means night audit active. LC$$.$$ displayed means overflow - depress NEXT to get amount in both displays)

6.5.6 Depress the NEXT key.

A) NEXT lamp flashes

B) Alphanumeric displays the long distance call charge for the first call (eg, LD 00.00) (note: If more than one long distance call was made, continue depression of the NEXT key displays the next long distance telephone charge for the room (eg, LD 1, 01.00; LD2 02.00; LD3 04.25)

6.5.7 If outgoing call is in progress at this time, depressing the NEXT key, the display would show:

A) TELE BUSY

6.5.8 Depress the NEXT key.

A) Alphanumeric displays the room number and END (eg, 7545 END)

B) RESTART lamp flashes

6.5.9 Go to next step.

6.6 If station message register interface (LC16B) were used, go to next step. If count per call or count per minute were used, go to Step 6.7.

6.6.1 Depress the NEXT CIRCUIT (and/or NEXT UNIT) key to obtain the next untested circuit.

6.6.2 Move the CO facility or trunk test set to the next untested circuit.

6.6.3 Repeat the same test procedure as specified in Steps 6.3 through 6.6.2 for each circuit (outgoing CO trunk and station message register interface circuit)

6.6.4 Total telephone charges will be displayed and/or printed on the printer.

6.7 Clear Telephone Charges for the Room

6.7.1 Print or display telephone charge for the selected guest room by repeating the same procedure as specified in steps 6.4.1 through 6.4.6, or steps 6.5.1 through 6.5.8.

6.7.2 When the alphanumeric displays the room number and END (eg, 7545 END), depress the CLEAR key.

A) Alphanumeric displays the room number and clear (eg, 7545 CLR)

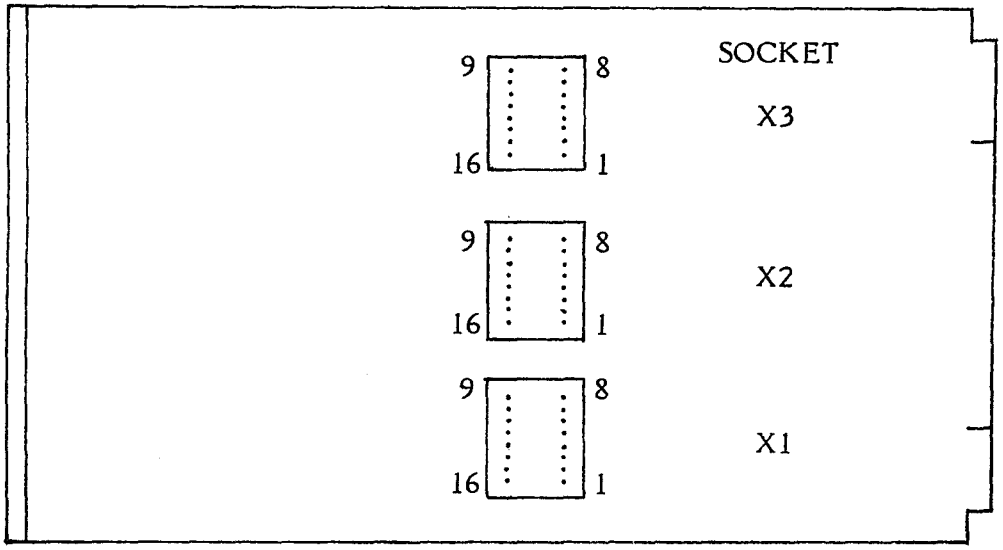
B) A clearing message will be printed on the printer "L 7545 08:35 MU 0000 C 000" when print telephone charges for a room was requested.

6.8 Take the console/terminal out of the hotel/motel mode as needed.

6.9 If trunk test set were used, set (if required) all L16B circuit packs for the appropriate option as specified by the telco.

7. LC 16 B Circuit Pack Option

Circuit pack LC16B is a message register and energy control power monitor interface circuit. LC16B contains three 16 pin dual-in-line sockets. Each socket is divided into two halves. The lower half (pins 1-4 and 13-16) of each socket is associated with circuits 0-3. The upper half (pins 5-8 and 9-12) is associated with circuits 4-7. Each shorting block control four circuits. Circuit options are shown below:



FEATURE	SOCKET	CKT.	SHORT TERM.	CKT.	SHORT TERM.
For ground return operation with battery provided remotely (same as LC16)	X2	0 1 2 3	1 - 16 2 - 15 3 - 14 4 - 13	4 5 6 7	5 - 12 6 - 11 7 - 10 8 - 9
For balance transmission line operation with battery provided remotely	---	0-3	None	4-7	None
Power monitor or peripheral alarm*	X1 & X3	0 1 2 3	1 - 16 2 - 15 3 - 14 4 - 13	4 5 6 7	5 - 12 6 - 11 7 - 10 8 - 9

*FACTORY EQUIPPED OPTION

8. Trouble Locating Aid

8.1 MAAP procedures for assigning LC16B circuit pack:

A) Trunk type 59 in PROC 100.

B) Circuit location of LC16B in PROC 150

C) TYPE (-) in PROC 160.

8.2 When interface (LC16B) is not used, PROC 160 is used to assign message unit count per call or message unit count per minute on each outgoing CO trunk.

8.3 PROC 205 is used to assign TELE CHGS key (Encode 32) on console/terminal.

8.4 PROC 280 is used to assign local all billing to SYSTEM COS.

Reason for issue:

New Section

Manager, Denver PBX PECC