FEATURE DOCUMENT

FREE TERMINATING LINES

NO. 2 ELECTRONIC SWITCHING SYSTEM

FEATURE DEFINITION AND DESCRIPTION

1. DEFINITION/INTRODUCTION

1.01 Certain lines, such as official telephone company numbers, business office, plant dispatch, fire, or police numbers, can have free terminating directory numbers. When a toll call is terminated to a line with this feature, answer supervision is not returned to the calling party; therefore, the calling line is not charged or coins collected. Centrex attendants, centrex lines, private branch exchange (PBX) lines, or multiline hunt group (MLHG) lines may also have free terminating service.

1.02 The Free Terminating feature is available in any No. 2 ESS office with any generic program.

1.03 No special equipment is required to implement this feature.

2. USER PERSPECTIVE

CUSTOMER

2.01 The Free Terminating feature allows certain No. 2 ESS lines to receive long distance or coin telephone set calls with no charge to the calling party.

TELEPHONE COMPANY

2.02 The Free Terminating feature automatically insures that calling parties are not billed for calls to lines with free terminating service. Free terminating calls are not AMA billed and therefore need not be sorted from the billed calls by the operating company.

3. SYSTEM PERSPECTIVE

3.01 The Free Terminating feature allows certain lines to be called with no charge to the calling customer. Major class code 13 designates a Free Individual line. A Line Class Code (LCC) with this terminating major class designates an individual line with a free terminating directory number such as official telephone company numbers, business office, plant dispatch, fire, or police numbers.

3.02 Major class code 14 designates a Free PBX/MLHG. An LCC with this major class designates an MLHG number with free terminating service. It is used for official telephone company numbers or other MLHG numbers for which there is no charge to the calling party.

3.03 Centrex lines are not associated with terminating major class codes; however, the Free Terminating feature is provided by the free terminating (FT) bit per the centrex line expansion.

3.04 The free terminating attendant (FTA) bit per universal console attendant expansion is used to provide the Free Terminating feature for centrex attendants.

3.05 The charge index (CI) is normally derived from the 3-digit translator (refer to Figure 1). Answer supervision is normally returned to the calling station if the charge index returned from the office code translation (3 DIGIT) indicates charging is required or if the calling party is an incoming trunk with the charge bit set. The normal charging information as obtained from 3-digit screening is overridden by the free terminating feature. If information derived from the 4-digit translator indicates the called party is a free terminating line, MLHG, centrex attendant or centrex line, then answer supervision is not returned to the calling party; therefore, the call is not timed and the calling line is not charged or coins are not collected.

3.06 If charging is required, answer supervision is returned to the calling station in order for the call to be timed and Automatic Message Accounting (AMA) entries to be made or coins collected.

FEATURE ATTRIBUTES

4. APPLICABILITY

4.01 The Free Terminating feature can be implemented for No. 2 ESS individual lines, PBX/MLHG lines, or centrex lines such as official telephone company numbers, business office, plant dispatch, fire, police, etc.

5. LIMITATIONS AND RESTRICTIONS

5.01 Not applicable.

START

CALLING PARTY DIALING

DOES OFFICE CODE
TRANSLATION CHARGE INDEX
INDICATE CHARGING IS
REQUIRED

NO

YES

IS CALLING PARTY A LINE

YES

NO

IS THE CHARGE BIT SET ON
THE CALLING PARTY TRUNK

NO

YES

DOES INFORMATION IN 4-DIGIT
TRANSLATOR INDICATE CALLED
PARTY IS A FREE TERMINATING
LINE, MLHG, CENTREX LINE
OR CENTREX ATTENDANT

YES

NO

ANSWER SUPERVISION IS
RETURNED TO CALLING PARTY
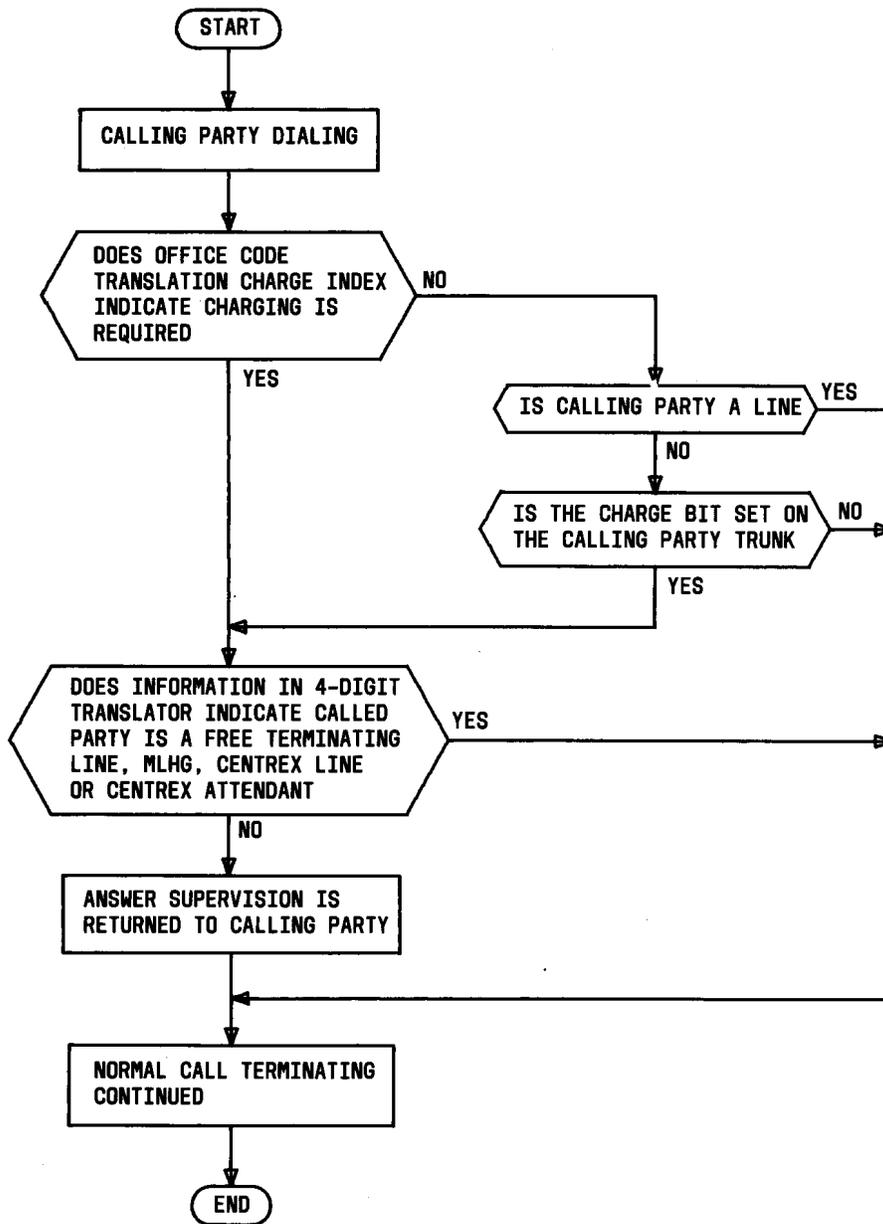
NORMAL CALL TERMINATING
CONTINUED

END

Fig. 1—Free Terminating Lines—Feature Flow Diagram

6. COMPATIBILITY AND INTERACTIONS

6.01 The Free Terminating feature should not be assigned to centrex lines which have either the Call Forwarding—Busy Line (CFBL) or Call Forwarding—Don't Answer (CFDA) feature. When a toll call is placed to a free terminating centrex line with either the CFBL or CFDA feature, if the call is forwarded to a line that is not free terminating, then answer supervision is returned to the calling party.

7. COST FACTORS

7.01 There is no additional cost for the Free Terminating feature since it is a standard part of the LO-1 and EF-1 generic programs.

7.02 Customers who have lines with the Free Terminating feature are charged a flat rate for this service. The rate is determined according to the local procedures of the operating telephone company.

8. AVAILABILITY

8.01 The Free Terminating feature is available as a standard part of all No. 2 ESS generic programs.

CONSIDERATIONS FOR INCORPORATION OF FEATURE INTO SYSTEM

9. PLANNING

9.01 Since free terminating service is a standard part of No. 2 ESS programs, no special planning is required.

10. HARDWARE

10.01 Since free terminating is a software feature, no special hardware is required.

11. DETERMINATION OF QUANTITIES

11.01 Not applicable.

12. ASSIGNMENTS AND RECORDS

12.01 The ESS 2306 translation form (Line Class Code Table), found in TG-2H, is affected by the Free Terminating feature. Entries should be made on this form as described in the TG-2H Translation Guide.

13. NEW INSTALLATION AND GROWTH

13.01 Not applicable.

14. TESTING

14.01 The Free Terminating feature can be tested by placing a call to a free terminating line. Automatic message accounting records can then be checked to assure no charge was made.

15. MEASUREMENTS

15.01 Not applicable.

16. CHARGING

16.01 When a call is terminated to a No. 2 ESS line with the Free Terminating feature, the calling line is not charged and coins are not collected.

SUPPLEMENTARY INFORMATION

17. GLOSSARY

17.01 The following list identifies terms used in this feature document.

- Automatic Message Accounting (AMA): A mechanized system used to record charging information in telephone switching systems located in the office it serves.

- Centrex: Centrex is an automatic switching system providing PBX capabilities and in addition direct inward dialing and identified outward dialing.

- EF-1: Extended Feature Generic Program.

- Line Class Code (LCC): A 3-character alphanumeric code assigned by the operating company to represent a class of service.

- LO-1: Local Office Generic Program.

- Multiline Hunt Group (MLHG): A customer optional feature which allows calls to hunt over a group of customer facilities in order

to connect a calling party with an idle facility within a group.

- Private Branch Exchange (PBX): A switching system which provides internal telephone communications between stations located on a customer's premises as well as between these stations and exterior networks.

18. REASONS FOR REISSUE

18.01 This is the initial issue of this document.

19. REFERENCES

19.01 The following documentation contains information pertaining to or affected by the Free Terminating feature:

- PD-2H204 Digit Interpretation Program

- TG-2H Translation Guide