

## SWITCHED SERVICE NETWORKS

### AUTOMATIC IDENTIFICATION OF OUTWARD DIALING RESPONSIBILITIES

#### 1. GENERAL

1.01 This appendix supplements Section 309-200-300.

1.02 It is reissued to:

- To define Automatic Identification of Outward Dialing (AIOD).
- To assign responsibilities in providing and maintaining this service at No. 1 Electronic Switching System (ESS) and 4W No. 5 Crossbar (XB).

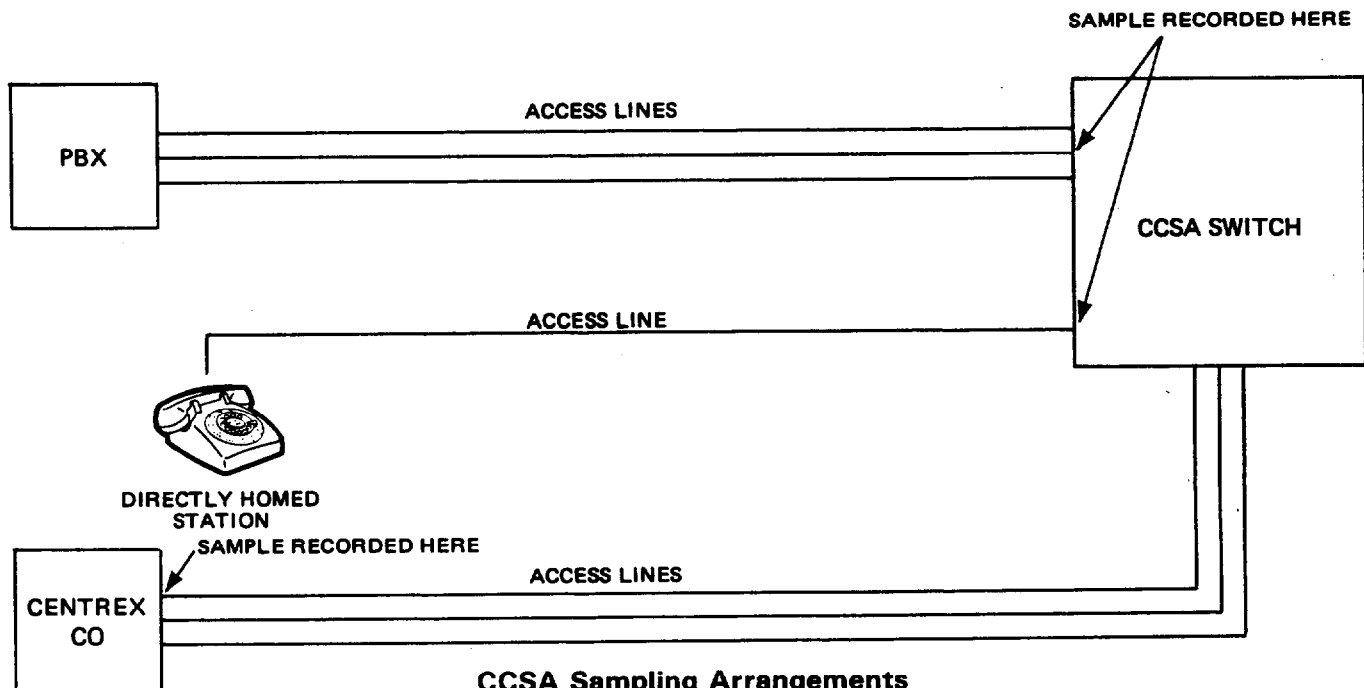
*Note:* Marginal arrows used to denote changes are omitted.

#### 2. DESCRIPTION

2.01 Automatic Message Accounting (AMA) sample arrangements on Common Control

Switching Arrangement (CCSA) access line circuits include the necessary wiring and connection of traffic sampling circuits at network switch center and at Centrex Central Office-(CO) network locations. These arrangements provide a continuous systematic sample of up to 20% (10% on the Federal Telecommunication System network) of all calls originating on the network.

*Note:* For the CCSA customer's cost allocation purpose, the procedure of sampling each fifth call (or every  $N^{\text{th}}$  call) permits a determination of the total number of messages originated by a customer through a switching office. However, the number of messages originated by a particular PBX or Centrex source is estimated from the sample and is subject to sampling variations. Similarly, the distribution of called points, message length, etc, are sample data, and estimates determined therefrom are also subject to calculable sample variation.



CCSA Sampling Arrangements  
Fig. 1

#### NOTICE

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**SECTION 309-200-300PT**  
**APPENDIX 1**

**2.02** For other than Centrex-COs, the call sample will be recorded at the network switch serving Centrex Customer Premises-(CUs), PBXs or directly homed stations. Calls originating from Centrex-CO locations will be sampled and recorded at the Centrex office (see Fig. 1).

**2.03** Generally, all sampled calls originating from PBXs will contain an access line group identification associated with the PBX. Sampled calls originating from directly homed stations will contain the station's line identification.

**2.04** Calls originating from a Centrex-CO will be recorded at the Centrex office and will contain the identification of the station making the call.

**2.05** Centrex-CUs may provide the AIOD of originating traffic. If this feature is to be provided within the CCSA sample of traffic from the Centrex-CU, a data link channel connecting the Automatic Number Identification (ANI) frame of the PBX to the Station Identification Frame (SIF) of the switcher must be provided. The identity of stations originating calls that are sampled is sent over the data link to the switch center and is recorded as the originating line number of the AMA record (see Fig. 2).

### **3. RESPONSIBILITIES**

**3.01** The Switched Service Bureau (SSB) is assigned overall responsibility for establishing, controlling and maintaining the AIOD service.

**3.02** The SSB associated with the switch will be the Plant Control Office (PCO). The PCO is responsible for the entire inter-and/or intra-exchange AIOD which is comprised of the AIOD/AMA in ESS, SIF/AMA in 4W #5 XB, the data link, and the ANI.

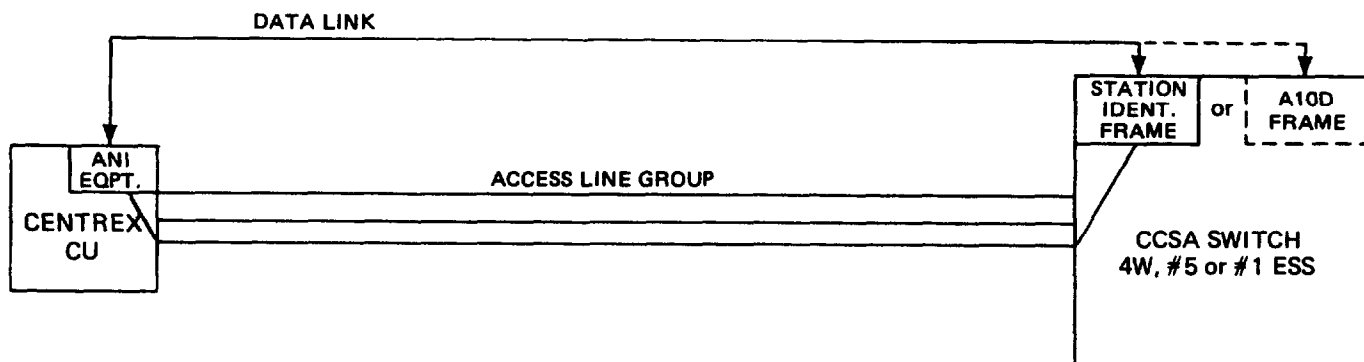
**3.03** The PCO responsibilities are outlined in existing Bell System Practices sections and are further detailed in Sections 309-200-XXX as they pertain to Switched Service Networks (SSNs) using CCSAs.

**3.04** To highlight the SSB/PCO's responsibilities, the PCO must be certain the end-to-end AIOD is functioning correctly at turn-up. The PCO must sectionalize, isolate, refer out and follow up on all reported AIOD service troubles.

*Note:* All orders for CCSA trunks and access lines cannot be considered as "complete on time" if the AIOD service is not connected and working properly on the due date.

**3.05** To facilitate the SSB/PCOs maintenance responsibilities, AIOD failure alarms or deviations received or observed at the switch must be reported to the SSB for action and follow up.

**3.06** The SSB should inform the plant network manager of any significant AIOD service failure that is likely to cause a customer reaction.



**Centrex-CU with Automatic Identification  
of Outward Dialing**  
**Fig. 2**