

CENTREX SERVICE

STEP-BY-STEP CENTREX

CENTREX C.O. ARRANGEMENTS

Centrex C.O. service can be made available for customers using step-by-step equipment instead of No. 5 crossbar equipment. Basically, two arrangements are possible—(1) combining the Centrex customers with regular subscribers in a partially equipped step-by-step central office, or (2) providing a centralized location for the dial P.B.X. equipment required to serve both Centrex and regular P.B.X. customers occupying a large office building or a group of nearby office buildings. Both arrangements locate only the attendant positions for each customer on his premises.

Central Office Location

To illustrate the first arrangement, the vacant thousand blocks of numbers in a partially equipped step-by-step central office which are not assigned to regular subscribers can be used for Centrex customers. All incoming traffic to both regular and Centrex customers would be over common trunks. Distribution would occur at the 4th selectors to the regular subscribers and each Centrex customer. Each Centrex customer would have an in-dialing train and a local train which would be available for his use only. Outgoing traffic to local subscribers, service codes, and DSA or toll operators could be handled on a standard P.B.X. basis, i.e., central office trunks to line equipment in the central office with dial "9" and/or attendant access. Common trunks to the CAMA office can be used for both Centrex and regular customers. Automatic number identification could also be possible for the Centrex customers if this feature is available for regular subscribers. Details of this arrangement are covered in Section 8 of these Notes for the step-by-step central office. The in-dialing trains for these Centrex customers are covered in Sections 3-b, 3-c, and 3-d.

Centralized Location

The dial equipment required to serve both Centrex and regular P.B.X. customers occupying a large

office building or a group of nearby buildings can be installed in a centralized location either leased or owned by the Telephone Company. Several advantages are achieved with this plan—

1. Floor space and power for the dial equipment, normally provided by the customer on his premises, will no longer be required. Space for his attendant positions will still be a requirement, however.
2. The centralized equipment will be engineered to provide the flexibility to add or remove dial equipment as necessary.
3. Service to new customers can be handled promptly. Vacated or spare facilities can be assembled to meet this customer's needs.
4. Common maintenance coverage for all customers will be supplied.

Engineering of these installations must be liberal to provide the facilities to meet the fluctuating demands possible with this arrangement.

701B P.B.X. equipment is provided for these centralized locations. Each customer's facilities are individual to him only. No interconnection between customers on an intercom basis (except over private tie line groups) will be possible. The Centrex customers are provided an in-dialing train operating as described in Section 3-b, 3-c, or 3-d of these Notes. Incoming traffic to them could be handled over a common trunk group with distribution provided (4th selectors) to reach each Centrex customer. Individual incoming trunk groups to each Centrex customer can also be provided if necessary. Regularly P.B.X. customers would be served from a local central office as they are today. Outgoing traffic from Centrex customers would be handled as described in Section 3-b, 3-c, or 3-d of these Notes. A possible exception would be a combined group of trunks to the CAMA office to handle the DDD traffic for all Centrex customers. Regular P.B.X. customers would be routed to the local central office as they are today.

In general, only CAMA operator identification of outgoing DDD calls from these Centrex customers will be available at this time.

The basic modifications in the 701B equipment required for this plan are—

1. Flexibility is required to add or remove equipment. This is provided for all switches, trunks of all types, call distributors, attendant loops, console position circuits, and access to the register senders through the position link when DC pushbutton dials are provided at the attendant positions.

2. Dial rather than station multiple completion to stations on attendant handled calls will be required.
3. The line groups can be arranged to serve 200 lines or two groups of 100 lines.
4. The line finders are modified to permit their use with either 100 or 200 line groups.

Figure 1 illustrates a typical installation for Centrex customers.

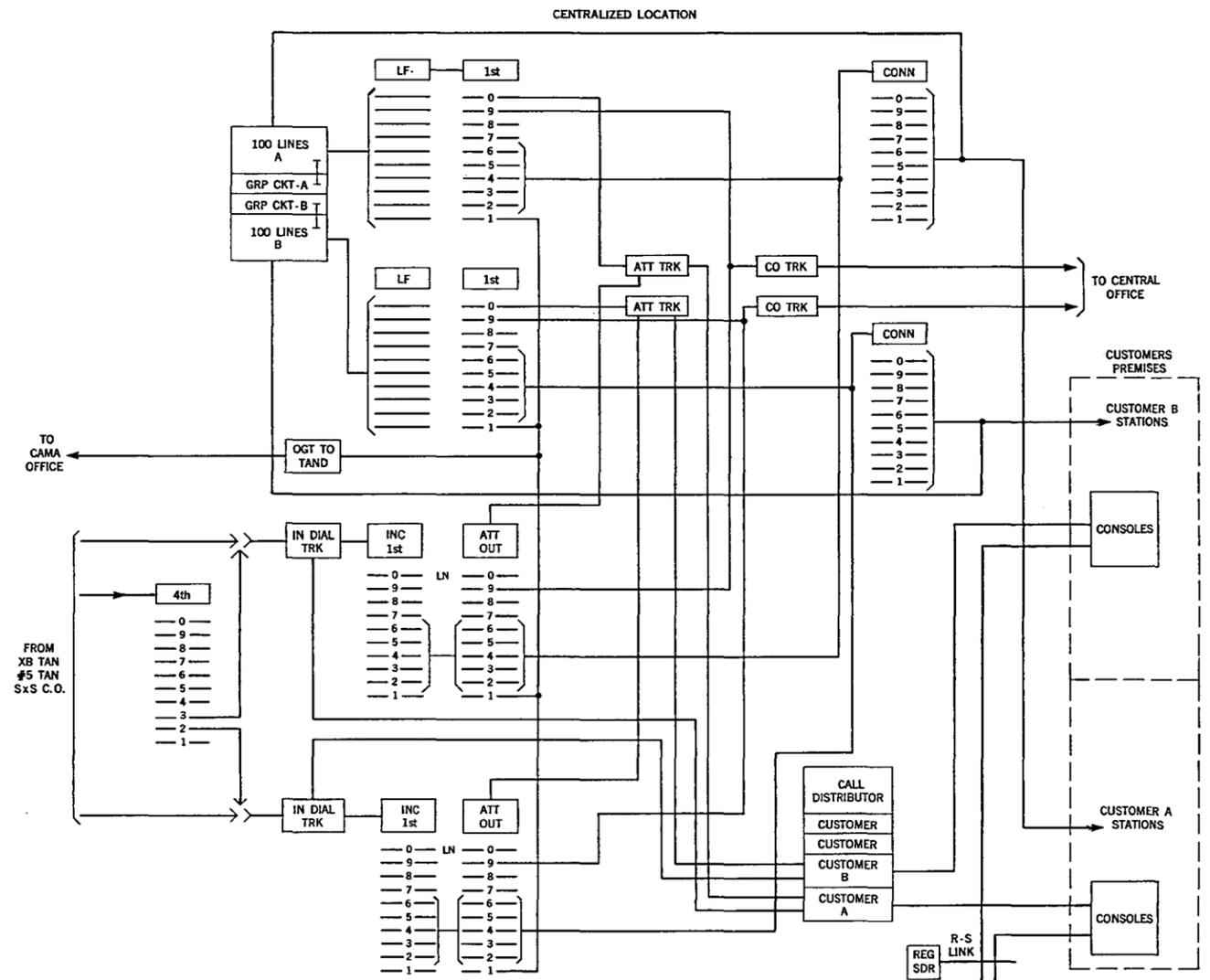


FIG. 1
CENTREX CO ARRANGEMENTS WITH S x S FACILITIES