FIGURE 10-1A  Dedicated telephone interconnections:  (a) Interconnecting two subscribers; (b) Interconnecting one subscriber to five other telephone sets; (c) Interconnecting four subscribers
FIGURE 10-1B Dedicated telephone interconnections: (a) Interconnecting two subscribers; (b) Interconnecting one subscriber to five other telephone sets; (c) Interconnecting four subscribers
FIGURE 10-1C  Dedicated telephone interconnections:  (a) Interconnecting two subscribers; (b) Interconnecting one subscriber to five other telephone sets; (c) Interconnecting four subscribers
FIGURE 10-2  Patch panel configuration
FIGURE 10-3A  Central office exchange: (a) without interconnects; (b) with an interconnect
FIGURE 10-3B  Central office exchange: (a) without interconnects; (b) with an interconnect

![Diagram of central office exchange](image)
FIGURE 10-4A  Local exchange: (a) no interconnections; (b) 874-3333 connected to 874-4444
FIGURE 10-4B  Local exchange: (a) no interconnections; (b) 874-3333 connected to 874-4444
FIGURE 10-5  Interoffice exchange system
**FIGURE 10-6** Interoffice call between subscribers serviced by two different exchanges
FIGURE 10-7  Interoffice switching between two local exchanges using tandem trucks and a tandem switch
FIGURE 10-8  Interoffice call between two local exchanges through a tandem switch
FIGURE 10-9  Relationship between local exchange offices and toll offices
FIGURE 10-10  Relationship between local exchanges, tandem offices, and toll offices
FIGURE 10-11  North American Telephone Numbering Plan Areas
FIGURE 10-12 Long-distance telephone connection
FIGURE 10-13  AT&T switching hierarchy prior to the 1984 divestiture
FIGURE 10-14  Choices of switching routes
FIGURE 10-15  Typical switching routes
FIGURE 10-16  Postdivestiture North American Switching Hierarchy
FIGURE 10-17  Example of an interexchange call between subscriber A in LATA A to subscriber B in LATA B
FIGURE 10-18  SS7 signaling point topology