



Line Connections Between the Phone System and the Cisco Unity Servers

This appendix describes the line connections between a traditional circuit-switched phone system and the Cisco Unity servers for failover.

This appendix contains the following sections:

- [Analog Voice Line Connections for Failover, page D-1](#)
- [Serial Data Cable Connections for Failover, page D-7](#)

Analog Voice Line Connections for Failover

Traditional, circuit-switched phone systems typically have 25-pair or 32-pair cables to provide analog voice connections. It is common that the cable is broken into individual lines that may attach to a punchdown cross-connect block (for example, 66-Type), or it may terminate with RJ-11 or RJ-14 connectors to accept analog voice lines.

A punchdown cross-connect block or line splitters may be used to split the analog lines. It is possible to use these devices in combination to manage and split the lines.



Note

No devices other than those described in this appendix should be connected to the analog voice lines for any voice messaging port. Otherwise, the ring equivalency number (REN) may be exceeded and the Cisco Unity servers may not receive sufficient ring current to answer calls.

Requirements

The following components are required for common configurations:

- Two or three analog voice patch cables for each port on the phone system.
- The appropriate device to split the analog lines:
 - One or more punchdown cross-connect blocks (for example, 66-Type), installed and ready to accept lines.
 - One line splitter for every one or two ports on the phone system. The line splitter accepts both RJ-11 and RJ-14 connectors.
- The appropriate connectors (RJ-11 and/or RJ-14) for the analog voice lines. [Figure D-1](#) shows the pinout for the RJ-11 connector, and [Figure D-2](#) shows the pinout for the RJ-14 connector.

Figure D-1 RJ-11 Connector Pinout

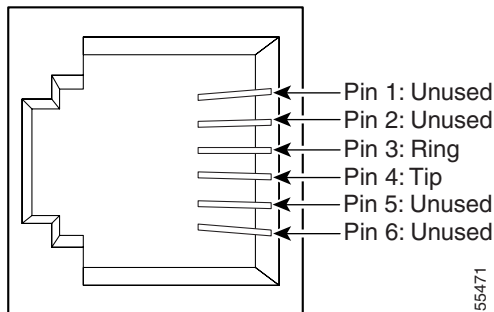
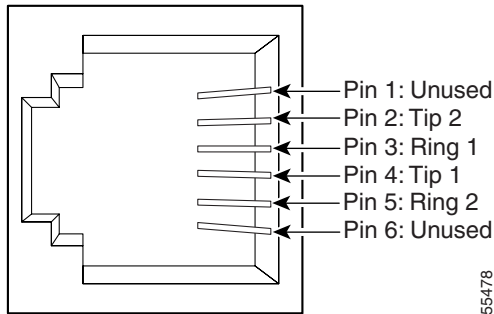


Figure D-2 RJ-14 Connector Pinout

Connections with D/41EPCI Voice Cards

The following figures illustrate common configurations:

- [Figure D-3](#) shows the connections between a phone system, through a punchdown cross-connect block, and to the voice cards on the primary and secondary servers.
- [Figure D-4](#) shows the connections between a phone system with an RJ-11 connector and the D/41EPCI voice cards on the primary and secondary servers.
- [Figure D-5](#) shows the connections between a phone system with an RJ-14 connector and the D/41EPCI voice cards on the primary and secondary servers.

Analog Voice Line Connections for Failover

Figure D-3 Connections from the Phone System Through a Punchdown Block to D/41EPCI Voice Cards

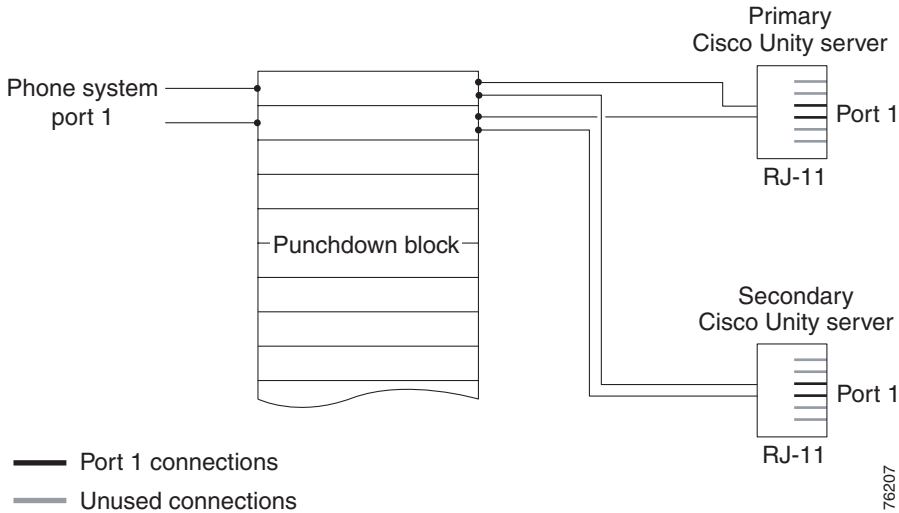


Figure D-4 Connections for an RJ-11 Connector from the Phone System to D/41EPCI Voice Cards

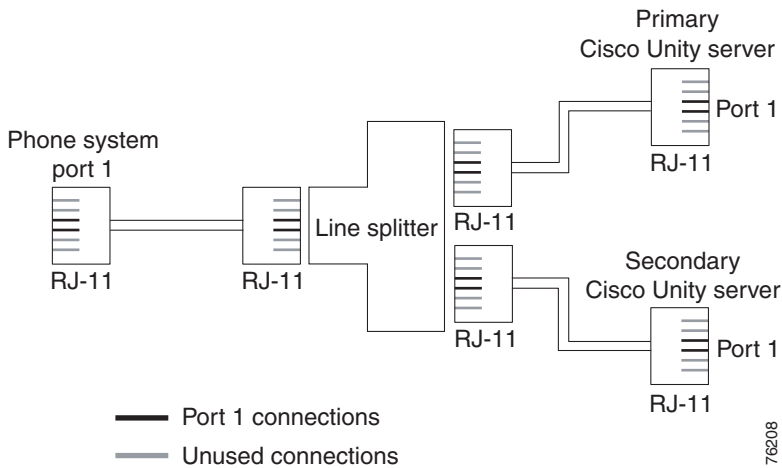
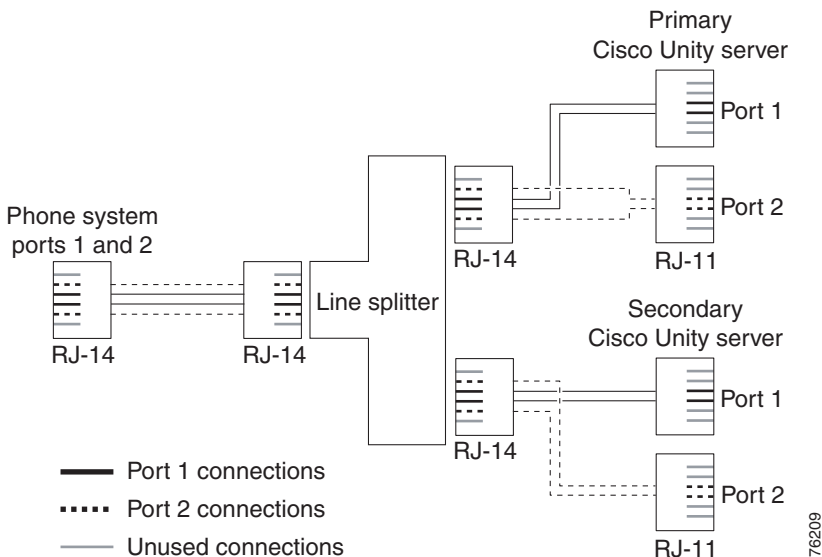


Figure D-5 Connections from an RJ-14 Connector on the Phone System to D/41EPCI Voice Cards

Connections with D/120JCT-LS or D/120JCT-Euro Voice Cards

The following figures illustrate common configurations:

- [Figure D-6](#) shows the connections between a phone system, through a punchdown cross-connect block, and to the voice cards on the primary and secondary servers.
- [Figure D-7](#) shows the connections between a phone system with an RJ-14 connector and the D/120JCT-LS or D/120JCT-Euro voice cards on the primary and secondary servers.
- [Figure D-8](#) shows the connections between a phone system with an RJ-11 connector and the D/120JCT-LS or D/120JCT-Euro voice cards on the primary and secondary servers.

Analog Voice Line Connections for Failover

Figure D-6 Connections from the Phone System Through a Punchdown Block to D/120JCT-LS or D/120JCT-Euro Voice Cards

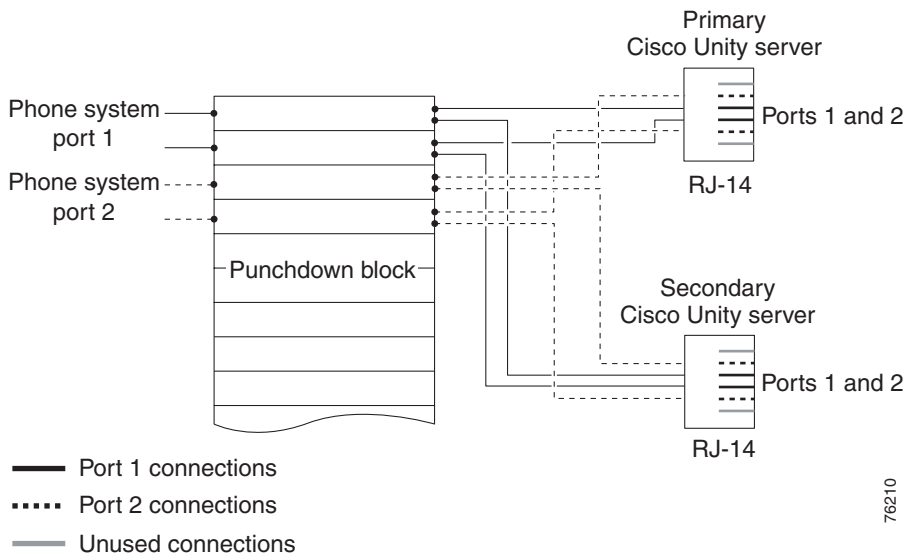


Figure D-7 Connections for an RJ-14 Connector from the Phone System to D/120JCT-LS or D/120JCT-Euro Voice Cards

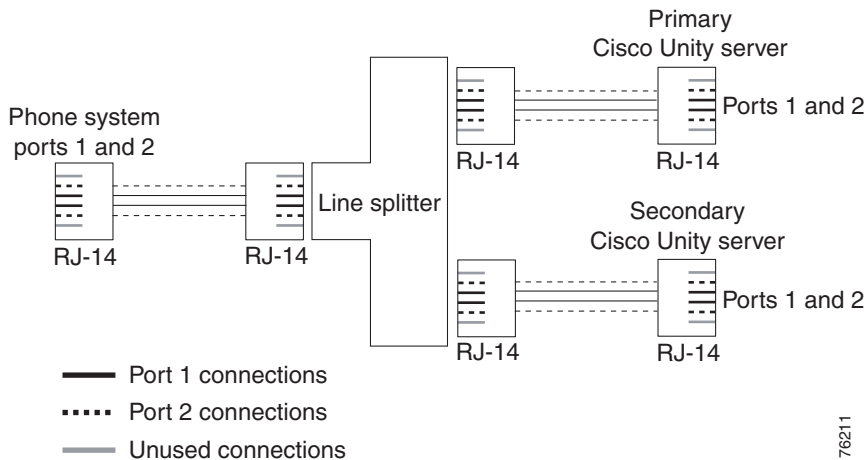
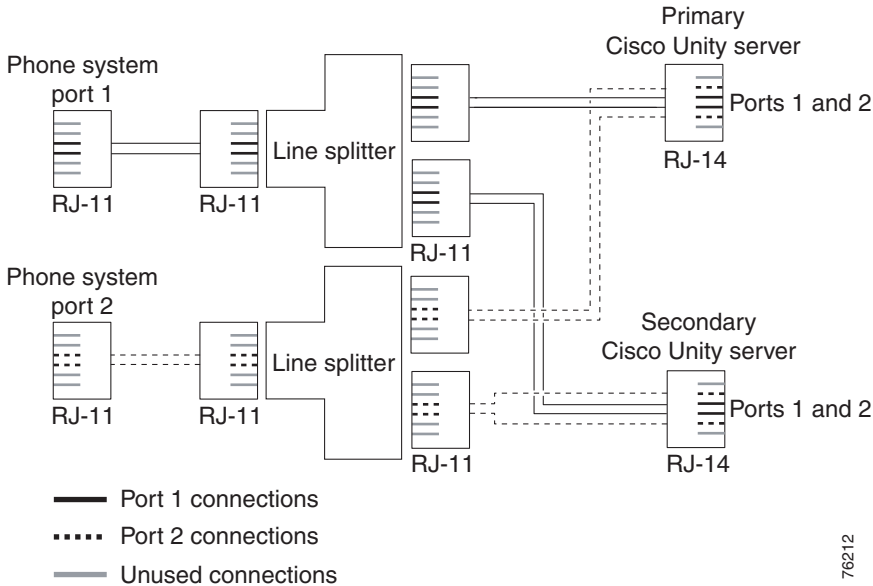


Figure D-8 Connections for an RJ-11 Connector from the Phone System to D/120JCT-LS or D/120JCT-Euro Voice Cards



Serial Data Cable Connections for Failover

Only serial integrations (for example, SMDI, MCI, or PBXLink) use RS-232 serial data cables.

Connecting RS-232 serial cables between a circuit-switched phone system and the Cisco Unity primary and secondary servers varies depending on the number of serial ports the phone system has.

Requirements

The following components are required for phone systems with only one serial port:

- Three RS-232 serial cables
- Data splitter unit (B&B Electronics 9-pin modem data splitter, model 9PMDS)

The following components are required for phone systems with multiple serial port:

- Two RS-232 serial cables

Connections for the Serial Data Cables

Figure D-9 shows the connections between the serial port on a phone system that has only one serial port to the serial ports on the Cisco Unity servers. Figure D-10 shows the connections between the serial ports on a phone system that has two serial ports to the serial ports on the Cisco Unity servers. The following figures do not show the analog voice lines, which are described in the “[Analog Voice Line Connections for Failover](#)” section on page D-1.

Figure D-9 Serial Cable Connections from a Single Serial Port on the Phone System to the Serial Ports on the Cisco Unity Servers

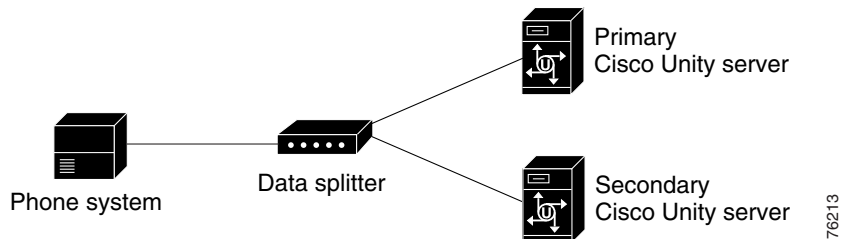
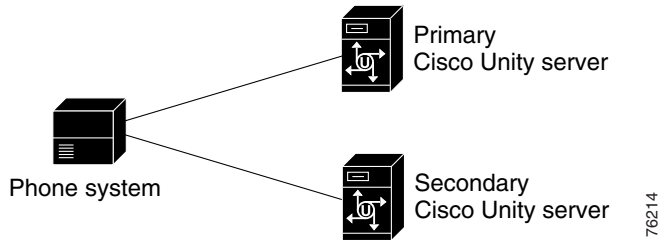


Figure D-10 *Serial Cable Connections from Multiple Serial Ports on the Phone System to the Serial Ports on the Cisco Unity Servers*



Serial Data Cable Connections for Failover