Q&A

How do I extend a phone (POTS) line from the PBX, across a T1 to a remote phone using voice FXO and FXS cards?

Q: How do I extend a plain old telephone (POT) line from the PBX, across a T1 to a remote phone using voice FXO and FXS cards?

A: Take a 2-wire loopstart telephone line from the station side of the PBX and connect it to the FXO card. The FXO converts the analog voice signal into a binary representation that the T1 can transfer to the remote site. It also takes the ~25mA loop current that indicates the off hook/on hook condition, and the ~100 VAC ring voltage and converts them into a 2 bit binary representation called signal bits. The remote site uses the FXS card to connect to a plain old telephone. The FXS card converts the digital voice back into analog and the signal bits back to DC loop current and AC ring voltage for the phone.