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## VoFR Connection Verification

To verify switched call voice connections, perform the following tasks:

- Pick up the telephone handset and verify that there is a dial tone.
- Call from a local telephone to the configured dial peer and verify that the call completes.

To verify the FXO-FXS trunk calls to a remote PBX, perform the following tasks:

- Pick up the telephone and listen for a dial tone from the remote PBX.
- Dial a telephone number, so that the remote PBX routes the call.

To verify voice connections, perform the following tasks:

- Check the validity of the dial peer and voice port configuration by performing the following tasks:
  - ◆ Enter the **show dial-peer voice** command to verify that the data configured is correct.
  - ◆ Enter the **show dial-peer voice summary** command to check the validity of the dial peer configurations.
  - ◆ Enter the **show voice port** command to show the status of the voice ports.
  - ◆ Enter the **show call active voice** with the keyword **brief** to show the call status for all voice ports.
  - ◆ Enter the **show voice call** command to check the validity of the voice port configuration.
  - ◆ Enter the **show voice dsp** command to show the current status of all DSP voice channels.
  - ◆ Enter the **show voice permanent** command to show the status of Cisco trunk permanent calls.
  - ◆ Enter the **show call history** command to show the active call table.
- Check the validity of the VoFR configuration on the DLCI by entering the **show frame-relay vofr** command to show the VoFR configuration.

## VoFR Problem Diagnosis

To diagnose problems in switched Frame Relay networks, use one or both of the following privileged EXEC commands:

Command	Purpose
Router# <b>show frame-relay pvc</b>	Displays statistics about PVCs for Frame Relay interfaces.
Router# <b>debug frame-relay switching</b>	Displays debug messages for switched Frame Relay PVCs.

## VoFR Monitoring and Maintenance Commands

To monitor and maintain the VoFR configuration, use the following commands in EXEC mode as needed:

Command	Purpose
Router# <b>show call active voice</b> [brief]	Displays the active call table.
Router# <b>show call history voice</b> [last number]   [brief]	Displays the call history table.
or	
Router# <b>show call history voice record</b>	
Router# <b>show dial-peer voice</b>	Displays configuration information and call statistics for dial peers.
Router# <b>show frame-relay fragment</b>	Displays information about the Frame Relay fragmentation taking place in the Cisco router.
Router# <b>show frame-relay pvc</b>	Displays statistics about PVCs for Frame Relay interfaces.
Router# <b>show frame-relay vofr</b>	Displays the FRF.11 subchannel information on VoFR DLCIs.
Router# <b>show interfaces serial</b>	Displays information about a serial interface.
Router# <b>show traffic-shape queue</b>	Displays information about the elements queued at a particular time at the VC (DLCI) level.
Router# <b>show voice permanent-call</b>	Displays information about the permanent calls on a voice interface.