These commands allow you to force voice ports into specific states for testing. The following types of voice-port tests are covered:

- Detector-Related Function Tests
- Loopback Function Tests
- Tone Injection Tests
- Relay-Related Function Tests
- Fax/Voice Mode Tests

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Detector-Related Function Tests

Using the **test voice port detector** command, you are able to force a particular detector into an on or off state, perform tests on the detector, and then return the detector to its original state.

To configure this feature, enter these commands beginning in privileged EXEC mode:

	Command	Purpose
1.	Router# **test voice port** *slot/port:ds0-group* **detector** {**m-lead** | **battery-reversal** | **loop-current** | **ring** | **tip-ground** | **ring-ground** | **ring-trip**} {**on** | **off**}	Identifies the voice port you want to test. Enter a keyword for the detector under test and specify whether to force it to the on or off state.
2.	Router# **test voice port** *slot/port:ds0-group* **detector** {**m-lead** | **battery-reversal** | **loop-current** | **ring** | **tip-ground** | **ring-ground** | **ring-trip**} **disable**	Identifies the voice port on which you want to end the test. Enter a keyword for the detector under test and the keyword **disable** to end the forced state.

Loopback Function Tests

To establish loopbacks on a voice port, enter the following commands beginning in privileged EXEC mode:

	Command	Purpose
1.	Router# **test voice port** *slot/port:ds0-group*	Identifies the voice port you want to test and

	loopback {**local** | **network**}	enters a keyword for the loopback direction. **Note**: A call must be established on the voice port under test.
2.	Router# **test voice port** *slot/port:ds0-group* **loopback disable**	Identifies the voice port on which you want to end the test and enters the keyword disable to end the loopback.

Tone Injection Tests

To inject a test tone into a voice port, enter the following commands beginning in privileged EXEC mode:

	Command	Purpose
1.	Router# **test voice port** *slot/port:ds0-group* **inject-tone** {**local** | **network**} {**1000hz** | **2000hz** | **200hz** | **3000hz** | **300hz** | **3200hz** | **3400hz** | **500hz** | **quiet**}	Identifies the voice port you want to test and enter keywords for the direction to send the test tone and for the frequency of the test tone. **Note**: A call must be established on the voice port under test.
2.	Router# **test voice port** *slot/port:ds0-group* **inject-tone disable**	Identifies the voice port on which you want to end the test and enter the keyword **disable** to end the test tone. **Note**: The **disable** keyword is available only if a test condition is already activated.

Relay-Related Function Tests

To test relay-related functions on a voice port, enter the following commands beginning in privileged EXEC mode:

	Command	Purpose
1.	Router# **test voice port** *slot/port:ds0-group* **relay** {**e-lead** | **loop** | **ring-ground** | **battery-reversal** | **power-denial** | **ring** | **tip-ground**} {**on** | **off**}	Identifies the voice port you want to test. • Enter a keyword for the relay under test and specify whether to force it to the on or off state.
2.	Router# **test voice port** *slot/port:ds0-group* **relay** {**e-lead** | **loop** | **ring-ground** | **battery-reversal** | **power-denial** | **ring** | **tip-ground**} **disable**	Identifies the voice port on which you want to end the test. • Enter a keyword for the relay under test, and the keyword **disable** to end the forced state.

Fax/Voice Mode Tests

The **test voice port switch fax** command forces a voice port into fax mode for testing. After you enter this command, you can use the **show voice call** or **show voice call summary** command to check whether the voice port is able to operate in fax mode. If no fax data is detected by the voice port, the voice port remains in fax mode for 30 seconds and then reverts automatically to voice mode.

The **disable** keyword ends the forced mode switch; however, the fax mode ends automatically after 30 seconds. The disable keyword is available only while the voice port is in fax mode.

To force a voice port into fax mode and return it to voice mode, enter the following commands, beginning in privileged EXEC mode:

	Command	Purpose
1.	Router# **test voice port** *slot/port:ds0-group* **switch fax**	Identifies the voice port you want to test. • Enter the keyword **fax** to force the voice port into fax mode.
2.	Router# **test voice port** *slot/port:ds0-group* **switch disable**	Identifies the voice port on which you want to end the test. • Enter the keyword **disable** to return the voice port to voice mode.