

Spectra CVR Testers

From Inet Technologies, Inc.



SPECTRA CVR TESTING

The Spectra system's comprehensive Conformance, Validation, and Regression (CVR) Testing package ensures the integrity and compliance of the protocols powering your networks.

The Spectra system's Level 2 and Level 3 testers are designed to provide testing capabilities as defined in the ITU-T Q.781 and ITU-T Q.782 specifications. Pre-built configuration files, ITU-T Q.781 and Q.782 test scripts, ANSI Network Operations Forum (NOF) tests, and traffic models can be accessed and used to test the Level 2 and Level 3 functionality of the SS7 links and nodes. The Spectra system also allows the user to modify any pre-built configuration, test script, and traffic model to conform to the user's configuration or create new configurations, test scripts, and traffic models.

The Telephone User Part (TUP), ISDN User Part (ISUP), and Transaction Capabilities Application Part (TCAP) Tester modes are also available as part of the CVR Testing package on the Spectra system. They are designed to provide Level 4 applications testing as defined in the ITU Q.783 (TUP), Q.784 (ISUP), and Q.787 (TCAP) specifications. Pre-built configuration files, test scripts, and traffic models can be accessed and used to test the Level 4 functionality of SS7 links and nodes.

For advanced CVR testing scenarios, the ISUP and TUP testers can be used in conjunction with the Spectra Trunk Tester to validate media paths within SS7 networks.

SUPPORTED SPECIFICATIONS

The Spectra CVR Package supports the following standardized specifications:

- Level 2, ITU-T Q.781
- Level 3, ITU-T Q.782
- TUP, ITU-T Q.783
- ISUP, ITU-T Q.784
- TCAP, ITU-T Q.787

USING CVR TESTERS

The Spectra system provides pre-scripted ITU-T Q.781 and NOF test scripts to test the Level 2 functionality of SS7 links. These scripts can be customized and saved according to user needs. The full list of pre-scripted Q.781 and NOF test scripts can be viewed in the Level 2 Tester screen.

The Spectra system Q.782 Level 3 Tester supports all ITU-T Q.782 test configurations A through D. System configuration files for test configurations A through D and pre-built test scripts in accordance to the ITU-T Q.782 specification are provided with the Spectra system. These scripts can be customized and saved according to user needs.

The Spectra system provides pre-built Q.783 (TUP) and Q.784 (ISUP) scripts to test the Level 4 functionality of SS7 links and nodes. These scripts can be customized and saved according to users needs. Test script descriptions are viewed from the information line on the Spectra system Tester screen.

The Spectra system TCAP tester provides pre- built Q.787 (TCAP) to test the Level 4 functionality of SS7 links and nodes. The TCAP Tester also allows you to create your own test scripts in order to generate specific scenarios.



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