



Contact:
inet@indes.com

Spectra is a multi-protocol analyzer with the revolutionary ability to handle the complexity of your network and bring all your data together. Targeted to the needs of advanced SS7, **SIGTRAN**, PCS, GSM, GPRS, IS-41 and ISDN networks and labs, the Spectra brings diverse protocols into a common environment for efficient, integrated troubleshooting, deployment and development. Conformance Test Suites ensure network compliance with national and international signaling standards.

Expand your product offering

Spectra is the test solution for fixed and wireless technologies in markets as diverse as North America, Europe, China and Japan. Flexible call generation traffic models work transparently across traditional SS7, ATM or SIGTRAN interfaces and the Spectra system can be integrated into the **Spectra 2** Next Generation VoIP platform for SS7 & IP environments.

Intuitive User Interface

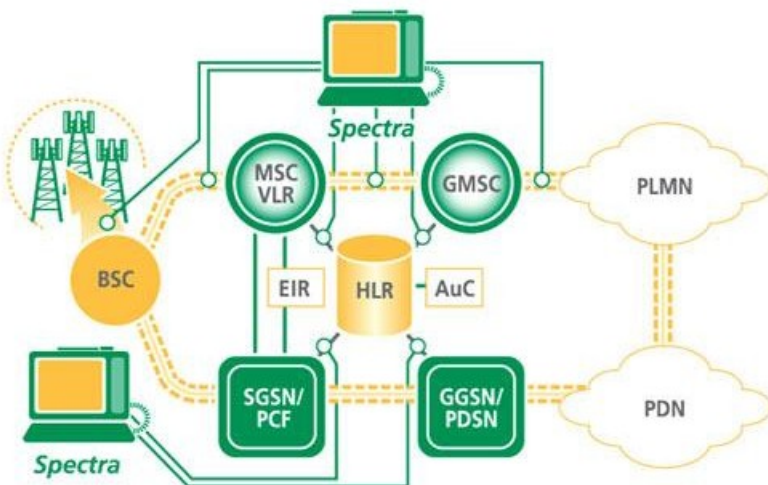
The Spectra System includes an intuitive user interface with pop-up menus and single-keystroke commands. Spectra's rapid configuration allows you to change test and monitoring scenarios on the fly and save commonly-used configurations, filters, tests and other settings for quick setup. With the Spectra System, you can plug in or remove the external physical interface pods without shutting down.

Test More of your Network

Test more of your network with fewer links using up to 16 virtual nodes to expand your emulated network without additional hardware or connections. Built-in modules allow you to look into your SS7 network to collect statistics or capture signal units for troubleshooting and analysis, even while testing, emulating or generating traffic. Captured SS7, X.25 and ISDN messages can be displayed together on one screen or individually expanded to display every message parameter and value in plain English.

Simultaneous Multi-Protocol Processing

Whether your network services rely on wireline, wireless or both technologies, you need simultaneous multi-protocol processing power to monitor, test, emulate and generate traffic



Application Modules

- SS7 Protocol Analysis and Monitoring
- SS7 Conformance, Validation and Regression Testing
- SS7 STP Emulation
- SS7 SCP Emulation
- SS7 ISUP/TUP Call Generation (Load)

- SS7 TCAP Transaction Generation
- SS7 GSM Generation
- SS7 GSM/PCS Statistics
- SS7 PCS Generation
- SS7 Country Variant and Custom Decodes (Call for details)
- ISDN BRI/PRI Protocol Analysis and Monitoring
- ISDN BRI/PRI Testing
- ISDN/Abis Call Generation
- ISDN Country Variant and Custom Decodes (Call for details)
- X.25 Protocol Analysis and Monitoring
- X.25 Testing
- X.25 Variant and Custom Decodes
- API
- Lan Remote Access (or Dial-up)
- Trunk Tester option (VF bearer testing)

New! - Sigtran Features include;

M2PA/SCTP & M3UA (Call for full details)

- 10/100 Ethernet Connection
- Decode M2PA Messages
- Capture & Decode M3UA Messages
- M3UA Conformance Test Scripts Based on draft-anshoo-test-spec-m3ua-01 January 2003, Test Specification for MTP3 User Adaptation)
- Utilise Spectra's existing Level 3 & 4 Testers & Traffic Generators (ISUP/TUP, TCAP) over Sigtran
- Manual Tools for Link/Layer control
- M3UA Provisioning Routing Key Mapping Tables
- 3UA Statistics

- Number of M3UA Messages per Message Type

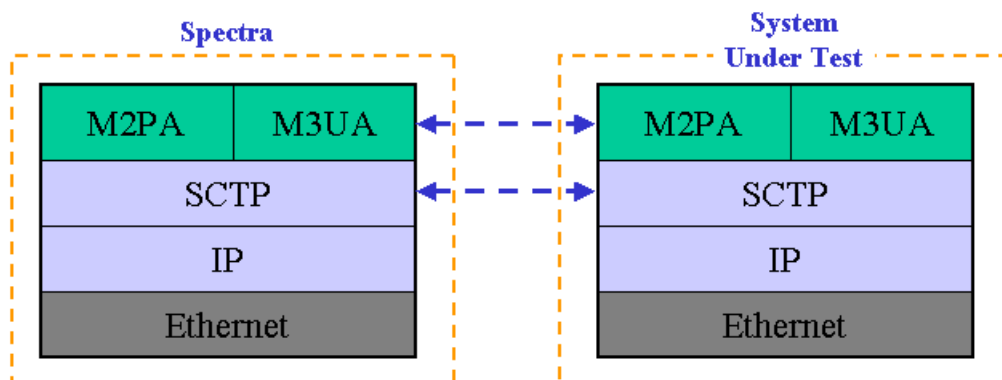
Number of M3UA Error Messages per Message Type

Level 3 User Part Statistics (same as PSTN implementation)

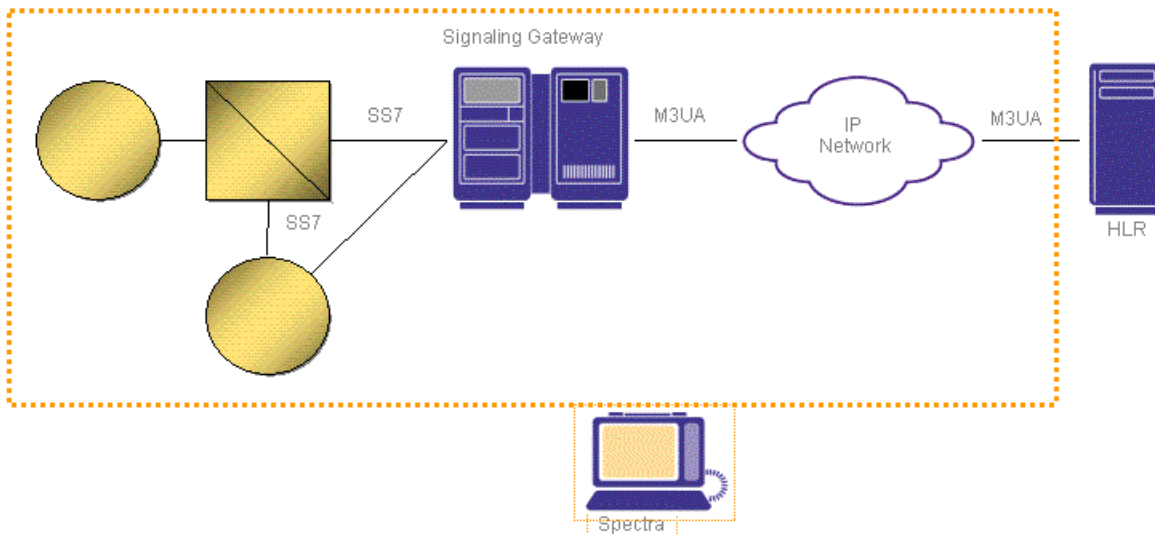
SLS, NI, MSU Priority Statistics (same as PSTN implementation)

HSL High Speed links are also supported for SS7 over ATM, HDLC

Spectra Sigtran Testing



Spectra M3UA Example



The Spectra Platforms and Interfaces

Rackmount

- Pentium 600MHz, 1 GB RAM, 40GB HD
- Available for standard 19" or 23" (43.26W X 46D X 26.5 H cm)
- (17W X 18D X 10.5H in) 50.5 lbs. (22.7 kg) fully loaded



Portable

- Pentium (R) 4 1.7GHz, 1 GB RAM, 8GB HD
- 11"H x 16"W x 9.75"D (28 cm x 40 cm x 24.8 cm)
- (13kg) fully loaded
- Windows XP



Physical Interfaces

Signaling Interfaces

- DS1/E1 V5 Bantam
- DS1/31 V6 BNC
- J1
- DS0
- V.35
- RS449
- RS232
- 10/100 Lan IP (Sigtran)

Voice Channel Interfaces

- DS1/E1 V5 Bantam
- DS1/E1
- V6 BNC
- J1

Voice/Signaling Interfaces

- DS1/E1 V5 Bantam
- DS1/E1 V6 BNC
- J1