Fax Connection Test Agent

Active Service Assurance

Over 100,000 fax destinations worldwide are stored in Tektronix Actice Assurance's unique PTI database, covering more than 230 countries.

Test T.30/T.32/T.38 Compliance
Guarantee Interoperability Over Any Network!
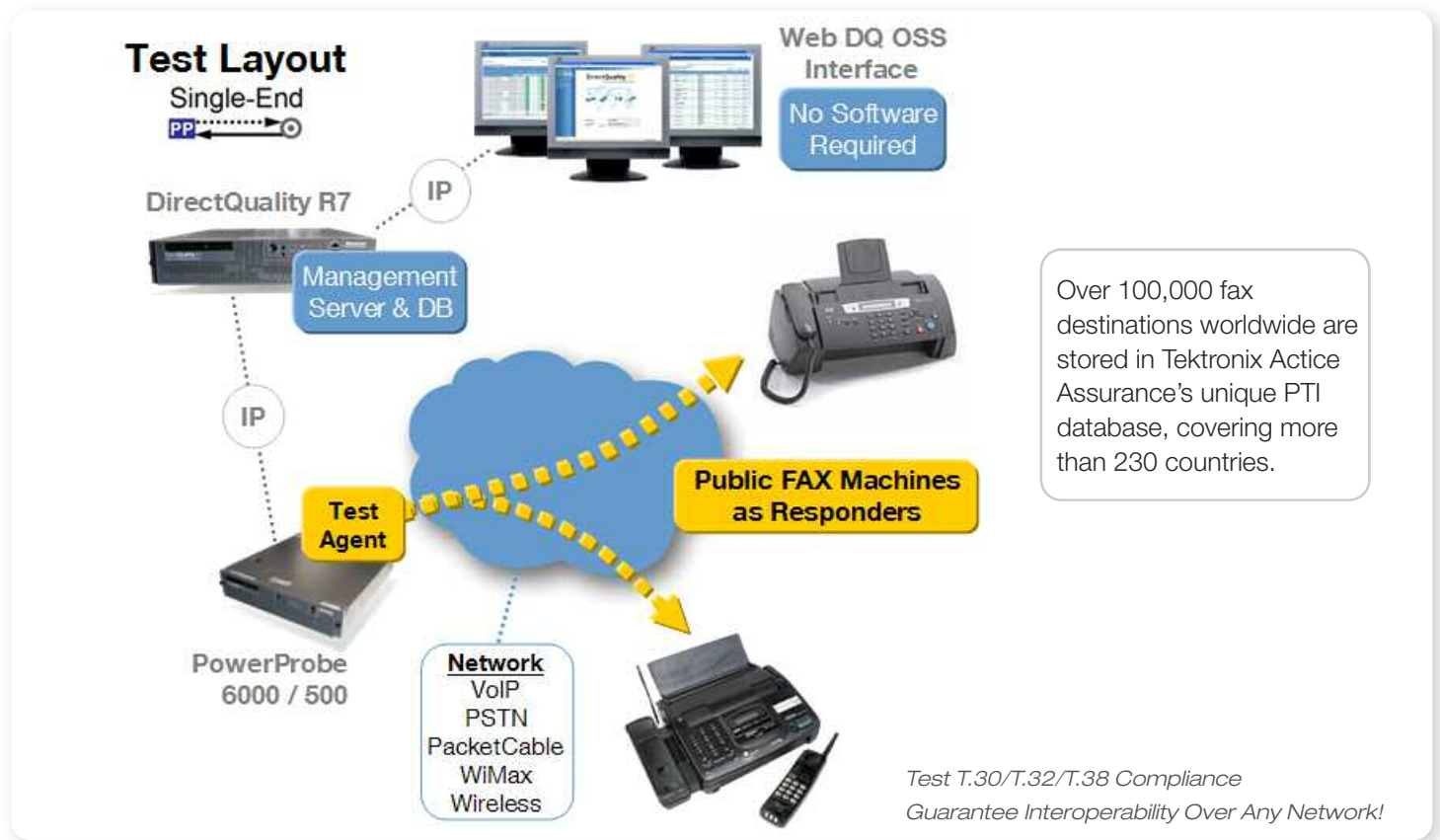
Overview

Tektronix' Active Assurance Fax Connection Test Agent allows you to analyze call connection performance based on ITU fax QoS standards over TDM, VoIP, VoCable, and wireless networks.

By measuring a complete set of connection and transmission parameters, the agent allows you to evaluate the probability of network problems such as congestion, latency and line noise.

Fax Connection tests generate fully automated active test calls that connect to far-end fax machines, collect fax transmission parameters, and hang up once the fax handshaking protocol is complete. This avoids printing fax pages at far-end destinations for service reliability testing while minimizing test-call billing duration. This minimizes test-call billing duration and avoids printing fax pages at the receiving machine.

Transmission Test Options:

▶ ITU 3 page test fax
▶ ITU 1 page test fax
▶ 1 page custom fax

Key Features / Benefits

▶ IIdentify IP, PSTN and wireless network congestion using fax transmission rate statistics

▶ Measure standard call connectivity metrics such as call completion ratio, post dial delay and
   ASR recorded with call disposition codes for service troubleshooting.

▶ Validate fax connectivity performance over VoIP, PSTN, wirelss and hybrid networks

▶ Quick-disconnect before transmission minimizes long-distance billing charges.

Tektronix®

Enabling Innovation

Tektronix' Communications Business Division -

Enabling Next-Generation Network Innovation

Measurements

Call Identification

- ▶ City (caller)
- ▶ Destination
- ▶ Country
- ▶ City
- ▶ Number Dialed
- ▶ Carrier

Connectivity

- ▶ Off Hook Time
- ▶ Call Disposition Codes
- ▶ Call Duration
- ▶ Hung-up code

Negotiation Parameters

- ▶ Bit Rate
- ▶ Binary Transfer File
- ▶ Error Correction
- ▶ Page Length
- ▶ Page Width
- ▶ Scan Time Per Line
- ▶ Vertical Resolution

Far-end Capabilities

- ▶ Bit Rate
- ▶ Binary Transfer File
- ▶ Error Correction
- ▶ Page Length
- ▶ Page Width
- ▶ Scan Time Per Line
- ▶ Vertical Resolution

Test Call Progress

Test Start → Off hook → Dial tone → Dial test number → Ring back ⋯ Answer → Fax Handshake → Hang-up

For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.
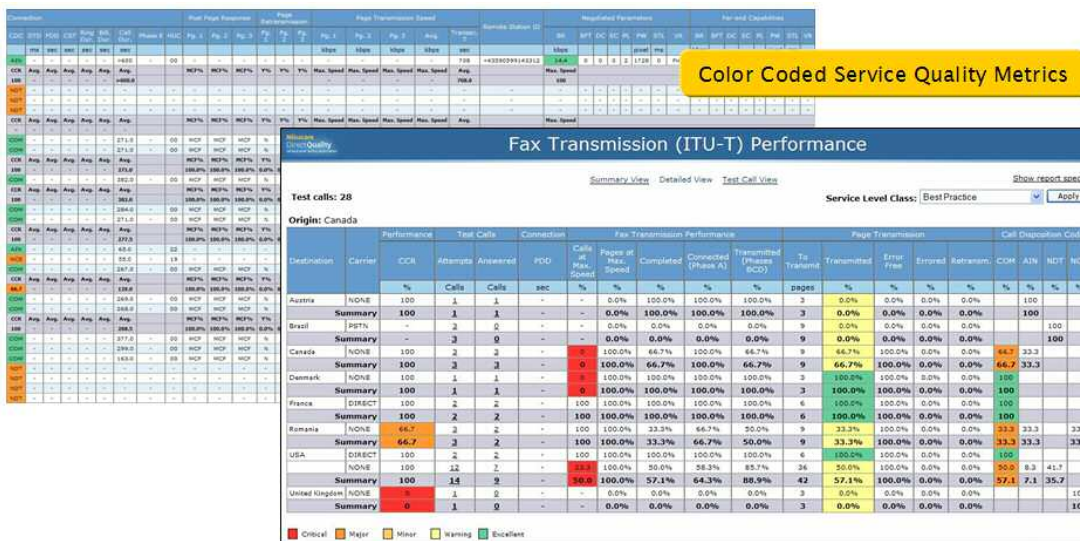
Please visit www.tektronix.com

Contact Tektronix:

Please visit
www.tektronix.com/communcations

Phone:
1-800-833-9200 option 1
+1-469-330-4000
Active Test Office:
(514) 380-5530

Locate your nearest Tektronix representative
www.tektronix.com/contactus

WEB Based Reports

Color Coded Service Quality Metrics

Fax Transmission (ITU-T) Performance

The DirectQuality Decision Support System provides comprehensive reports on all your fax transmission tests with extensive filtering and multiple report views, results drill-down for troubleshooting, and service level class analysis for integration into your existing fault management system.

Tektronix®
Enabling Innovation