

Software Probe for Large Scale Coverage

Epitiro's **AT50** probe measures Quality of Service (QoS) key performance indicators directly from a laptop or computer. Downloaded from a bespoke web site, the AT50 scales easily to thousands of installations enabling service providers and regulators to create substantial databases of fixed and mobile broadband performance statistics.

The AT50 probe enables telcos, regulators, ISPs and enterprises to benchmark services from competing suppliers, manage networks and troubleshoot faults. Under the control of Epitiro's flagship ISP-I Management platform, the AT50 probes perform a remotely-configurable suite of real-time tests and forward the results to a common database which can be viewed using the on-line ISP-I Dashboard. Line Activity Testing (LAT) ensures that tests are run in the background never made when customers are using the broadband services.

Tests can be scheduled to run at various times of the day – typically peak and off-peak – to provide a rich database of metrics that can be analysed with the dashboard or sent as a data-feed to external programs.

A silent background mechanism automatically updates the AT50 so that new software releases and support for additional functionality and network protocols can easily be deployed.

Reporting and Data Recording Mechanisms

The AT50 reports test results to ISP-I central (Epitiro-managed) control servers on a configurable schedule, using secure HTTP-based transportation.

Communication of configuration, results and software updates between the AT50 and the control centre servers uses MD5 encryption to ensure this secure transmission of data.

Epitiro provide an extremely flexible reporting interface via the ISP-I platform and can additionally develop customized reporting to further meet requirements. All results are stored in real-time in a server-side SQL database.



Features

- Measure End-to-end performance directly to the consumer premises
- Support for all DSL, Cable, Fiber (FTTx), 3G HSPA, WiMAX and LTE
- RFC-2544 IP testing capability including TCP Throughput, HTTP, Latency Packet Loss, Jitter
- Also Tests E-Model Voice Quality

Benefits

- Scales quickly and economically to thousands of installations
- Benchmark and compare services across national / international networks with statistical accuracy
- Pinpoint customer-affecting faults in the network
- Use for capacity planning and testing of new services

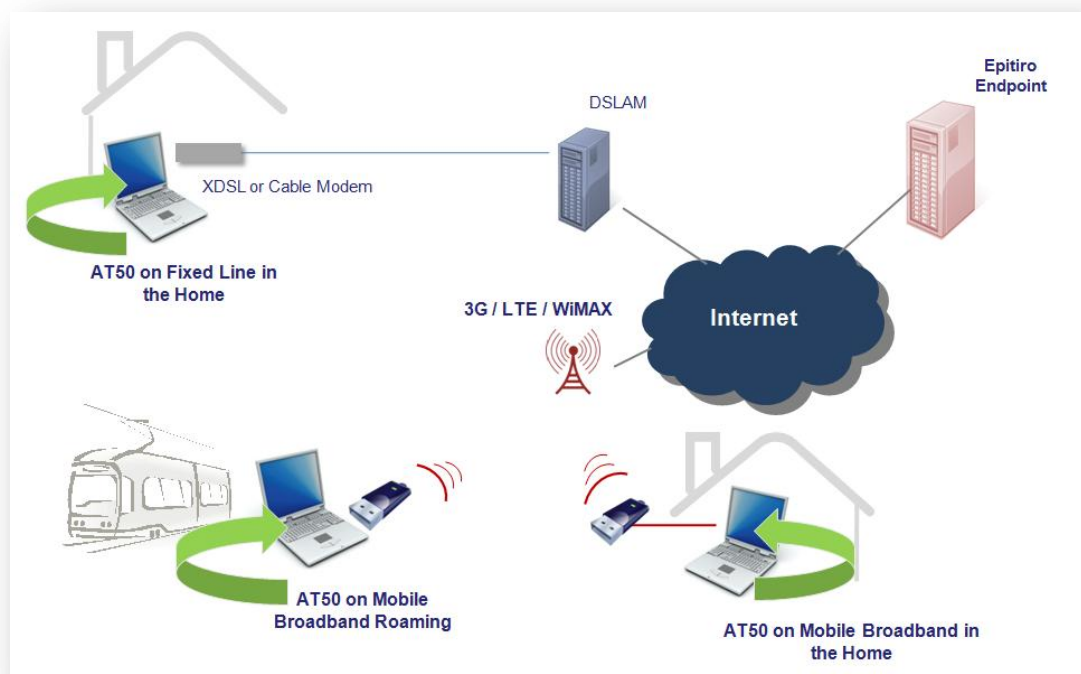
Data Tests

The AT50 tests key performance indicators (KPIs) for data testing such as;

- TCP or UDP based 'Up To' speed tests to end-point servers off-net or on-net
- HTTP cached and un-cached downloads
- Network Latency: ICMP-based echo request
- Packet Loss
- DNS Performance

Typical Installation

The AT50 software probe works equally well on fixed or wireless services, including cable, ADSL, FTTX, 3G, LTE and WiMAX. The EpiTiro Endpoint, used to store test files, can be located on a common point in a network or a specific location on an ISP's network.



The software can be downloaded by screened consumer panellists or at random by the general public from a bespoke website with customised branding and language of choice. Shown is EpiTiro's Ispasure website which operates based on the AT50 and is publicly available for trial.



Specifications	
Device Type:	AT50 Software Probe
File Size	20MB
Operating System Compatibility:	Windows XP , Windows Vista, Windows 7
Testable Bandwidth Range:	.5 Mbps – 300 Mbps

Please contact us directly to learn more about how **ISP-I™** and the **AT50** can help you with network management and competitive intelligence.

EpiTiro Ltd
 10/11 Raleigh Walk
 Waterfront 2000
 Brigantine Place
 Cardiff, UK
 CF10 4LN
 +44 (0)870 850 6563
 www.epitiro.com