

Specifically designed for network providers and network operators



The World's most user-friendly telecoms network testing solution

Ensuring seamless communication between IP-based equipment and legacy TDM networks

Available with unique ETSI standards test suite



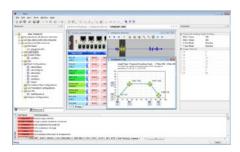
KEY FEATURES

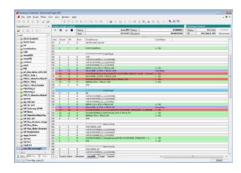
- Multiple modules provide 4000 POTS, 1000 BRI S / U or 1000 PRI E1,T1 or J1
- Multiple protocol support including SIP, H323, DASS, ISDN, Analogue
- Detect Dial Tone, Busy Tone, NU Tone,
 Ringing Tone & other call progress tones
- Create different call scenarios including call generation and network simulation
- ✓ PESQ voice quality measurements
- ✓ Advanced traffic reports
- Wrap-round testing

Fully user-configurable scripts

Featuring an intuitive GUI for easy, flexible, fast and user friendly (drag and drop method) script building. It is possible to design, schedule and run multiple test scenarios to verify performance, functionality, interoperability, capability and QoS of the tested access network or MSAN.







Control application

Multiple Harmony units can be accessed and configured with multiple users or settings changed as well as upgrading firmware through the control application.

Composer

With the Harmony Composer you can design complex performance test scripts using simple drag and drop operations. Scripts are designed using basic building blocks provided by the Component Gallery and configured using an intuitive Component Properties window.

Conductor

The Conductor application provides the interface through which the Harmony can be controlled. Scripts generated via the Composer application are loaded and launched via the Conductor and allows you to run your test scenarios as well as view call statistics, call rates and Quality of Service measurements.

Advanced traffic reporting system

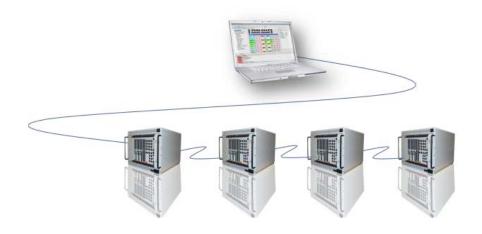
Simply drill down to specific errors in the network. Our very advanced real time statistics shows call rates per second, completed call attempts, packet loss, delay etc. The system also allows you to design and print your own report.

Cost Effective

Share the Harmony between engineers using our Multiuser features. Each port can be assigned to a specific user. One Harmony can act as many smaller systems and each port can be configured separately to run different test scenarios controlled by different engineers.

Easily expand the system as your network grows

The **emutel™ Harmony** is the only product on the market that can be extended to 4000 FXO (analog) interfaces, 1000 BRI U / S (ISDN) or 1000 PRI interfaces. Units can be cascaded and operate as a single system managed from one GUI.





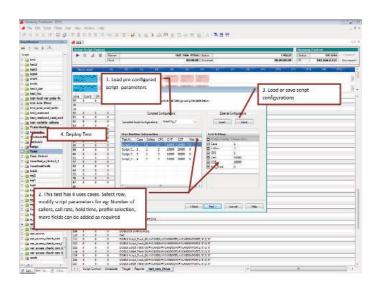
ETSI STANDARDS TEST SUITE

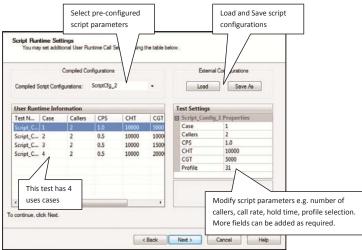
Remove the need to build/write/create your own test scripts - with an easy and effective testing solution, complete with pre-configured standard scripts which comply with the relevent ETSI test standard.

Define your own profiles for network load, which can be a mixture of the individual use cases as specified by ETSI, thus giving realistic, real world, traffic scenarios.

The **emutel™ Harmony** can come uniquely pre-configured with the test scenarios defined in accordance with the latest ETSI standard use cases.

The user interface is so easy to use - simply modify script parameters such as, number of callers, call rate, phone numbers, hold time etc. and run your test.





WHY YOU NEED THE emutel™ Harmony

Quality of Experience Testing

The **emuteI**TM **Harmony** is a powerful, but simple solution, that can stress test your existing systems to help you identify points of weakness that could lead to a reduction in the quality caller experience. By continuously monitoring the PESQ and delay readings in real-time, using recognised protocols you will be able to identify and eliminate any potentially costly bottlenecks before they are exposed. With telecoms network provision being so competitive, the maintenance of customer experience is paramount.

Regression Testing

Network providers who are continuously upgrading, balancing and developing their networks will be able to confirm the negative or positive effects of the upgrade across the entire system to ensure any change is not detrimental to customer experience. Regression testing is widely recognised as a crucial aid in such a fast moving, technical realm.

Interoperability Testing

Interworking between protocols and standards implemented by different manufacturers of equipment requires systematic and regular load testing which can be extremely difficult to repeatably verify, but using the **emutelTM Harmony** in conjunction with the ETSI standard test suite makes this an invaluable tool to the Telecoms Network Engineer.



Depending on your needs and budget the **emutel™ Harmony** is available in various chassis options.

www.arcatech.com