

Remote testing and diagnosis with Duet

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Application Note ANDUET_4

Testing the World's Digital Networks



TrendCommunications

REDUCING THE NUMBER OF SITE VISITS

Remote Control on the auroraDuet

A common problem for the telecommunications technician is the intermittent fault on the CPE (customer premises equipment). This may result in many unfruitful and costly site visits before the fault is observed. The auroraDuet may be controlled remotely via a PSTN modem or ISDN TA. This will allow real-time testing to take place or tests to be set running with dial-up and download of results later.

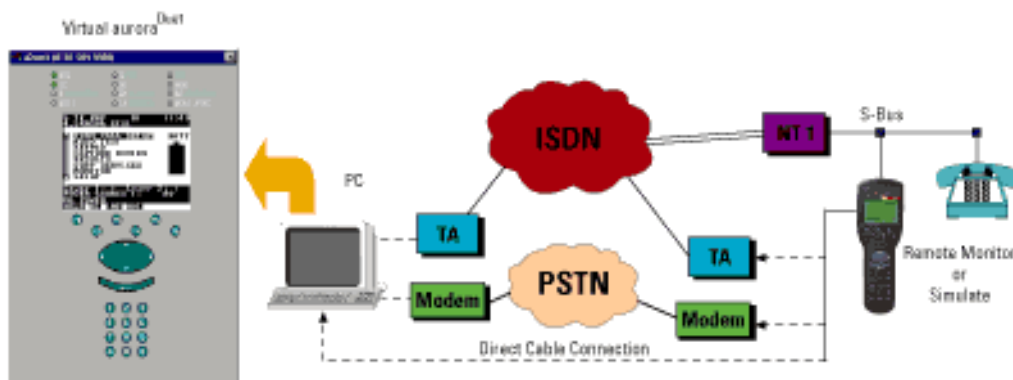
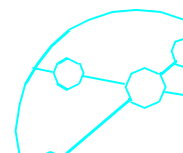


Figure 1

Remote Operation of auroraDuet.

The PC Windows application provides an easy to use virtual instrument replicating the 'look and feel' of the real tester. Up to 20 tester profiles may be stored on the PC. With few exceptions, all testing performed with the tester in your hand may be performed remotely. Download of test results, trace information and tester set-up parameters are all supported. This mode also makes a useful training and supervision tool for overseeing less skilled personnel. Remote Control may also be used to control testers at both ends of a link from a single point. Figure 1 shows some of the many test configurations possible.



Analysis of remotely captured traces – Expert + Remote Control on auroraDuet

Once a series of remote tests using the auroraDuet have been completed the next likely step is to analyse the results in more detail. It is possible to download trace information from a remotely located auroraDuet in 'Expert for Windows' format and then 'kick off' the Expert package from the Remote Control package running on the control PC.

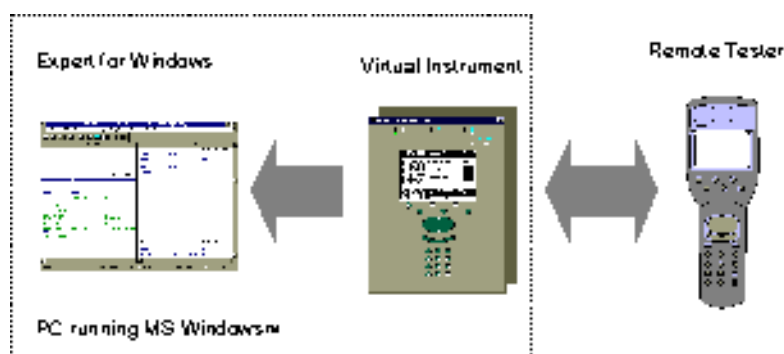


Figure 2

With 'Expert' running on the PC, in-depth analysis of the captured ISDN trace can be performed. Expert will allow a wide range of filter and exception parameters to be set to focus closely on any desired detail within the protocol information.

When directly connected to an auroraDuet, 'Expert' will additionally provide real-time protocol analysis. In this mode, the trace may be frozen and reviewed at any point whilst still capturing the trace detail to the PC disk.

The functionality detailed above is available in the latest release of auroraDuet software. Please contact your Local Vendor or the Trend Communications Ltd Customer Support Hotline (tel: +44 1628 851085) for further information.

