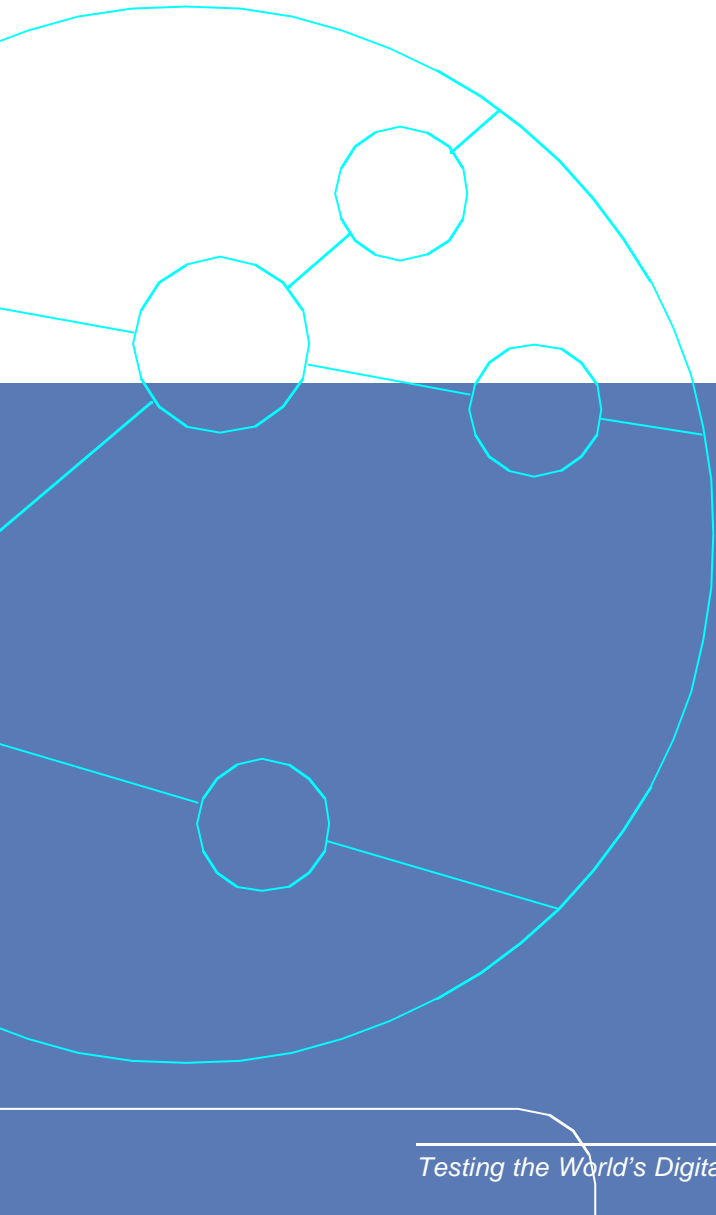


xDSL Pair Qualification using the LT2000

Testing is necessary on older networks, because often DSL services do not operate effectively due to bridge taps, mismatching and general degradation of electrical characteristics of line.

Application Note ANLT2000_1



Testing the World's Digital Networks

TrendCommunications

CHECKING THE LOCAL LOOP

Where is it necessary to test whether a line is suitable for xDSL?

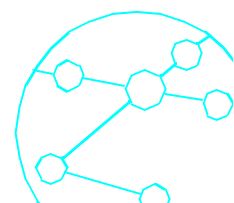
Testing is necessary on older networks, because often DSL services do not operate effectively due to bridge taps, mismatching and general degradation of electrical characteristics of line. In these cases it is necessary to make sure the network is capable of supporting the xDSL service. In all cases, once the service has been installed, if something does not work properly it is necessary to find out why and where the fault lies.

Which kind of tests are required?

There are two types of test – digital and analogue. Digital tests are used to confirm whether the service is working well or not. Analogue tests are used to find out why the digital tests are failing, can help to locate the fault, and most importantly can be done very quickly.

Which kind of tests do we recommend?

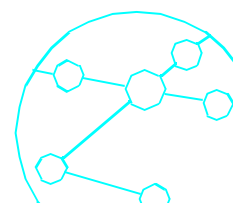
To find out if a line is suitable for xDSL, the LT2000 will perform the following tests:-



MEASUREMENTS	EQUIPMENT	CAUSE OF PROBLEM
Attenuation	2 Instruments	Line too long Unsuitable cable Insufficient bandwidth
Nose/Level *	1 Instrument	Environment noise Thermal/Mechanical effects Cross Talk
Return Loss *	1 Instrument	Unsuitable impedance Wrong termination Critical bridge tap
Longitudinal Balance *	1 Instrument + adapter	Low insulation Split pairs
Cross Talk (Near) *	1 Instrument	Unsuitable cable Split pairs

These measurements are performing in both single frequency and scan mode

The functionality detailed above is available in the latest release of LT2000 software. Please contact your Local Vendor or the Trend Communications Ltd Customer Support Hotline (tel: +44 1628 851085) for further information.





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