

“U” Monitoring Mode with Sonata

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Application Note ANSON_2

Testing the World's Digital Networks



TrendCommunications

U INTERFACE MONITORING.

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It also supports simulation and monitoring on the Primary rate interface.

The key application for PTO basic rate maintenance is U interface monitoring.

ISDN and analogue from combined NT's.

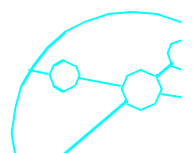
Many countries are installing combined NT's to deliver ISDN and analogue to residential users. This application allows the PTO to monitor on the local loop and verify the correct operation, or identify problems, of the ISDN and analogue port on a combined (dual port) NT. The NT takes the analogue input and “adapts” it to a 3.1k ISDN audio call. The call parameters for both types of call can be monitored and identified on the U interface. This is vitally important as it is not possible to monitor analogue calls on the customer side of the NT and the PTO may only have access to the U interface.

Embedded NT's in terminal equipment.

Where point to point connections are common on the Basic rate interface it is normally to a router, PBX or dedicated ISDN PC card. In all of these cases, there is no S interface available to monitor on. So the only way the D channel signalling can be verified, and issues identified, is on the U interface.

Liberalisation allows the customer to own the NT.

Liberalisation will allow customers to buy and fit their own NT. This will potentially give the PTO a number of issues with line operation. The PTO can test the local loop, using simulation mode on U, but will not be able to test on the customer side. Similarly, for maintenance, the PTO engineer will only have access to the U interface to identify any problems.





Real-time monitoring allows you to view the D-Channel decode on screen for on-the spot trouble shooting. This can be frozen to identify fault conditions while data is still being collected in the background which means that a protocol can be reviewed without stopping the data capture. On screen decode shows the signalling information is being passed between the NT and exchange over the ISDN link being monitored.

U interface monitoring enables the PTO user to test the correct operation of the local loop. This is likely to be the only point that they have access for testing and so it is vitally important for maintenance and support of the ISDN network.

The functionality detailed above is available in the latest release of aurora Sonata

software. Please contact your Local Vendor or the Trend Communications Ltd

Customer Support Hotline (tel: +44 1628 851085) for further information.

