

No. 11.1: SNMP Support within WTL Equipment

Introduction to SNMP

Simple Network Management Protocol (SNMP) is a standard for gathering statistical data about network traffic and the behavior of network components; SNMP uses management information bases (MIBs), which define what information is available from any manageable network device. SNMP is described formally in the Internet Engineering Task Force (IETF) Request for Comment (RFC) 1157 and in a number of other related RFCs.

SNMP management is likely to appeal to customers who already manage a wide range of existing equipment from various manufacturers in their network. Rather than use each manufacturer's management system they use a single common management system (Castle Rock SNMPc or HP Openview for example) which is able to handle all SNMP based equipment.

At present, WTL has not developed its own SNMP based management system and we do not have a preferred 3rd party supplier for a SNMP management console (customers have successfully used their own choice of SNMP management consoles).

The decision was taken that a proprietary method of equipment management would be used for all WTL equipment (wn_mon). This has been developed to be highly efficient, robust, secure and, most importantly, uses low bandwidth when managing remote equipment.

Integrating WTL Equipment & SNMP

It is possible to include WTL equipment in an SNMP-based management scheme. This is achieved by the use of standard MIBs contained within elements of the WTL equipment. These MIBs can be used to give a real-time view of equipment status, trunk state, IP networking, packets sent and received, data errors and many other characteristics.

MIB Support by Equipment Type

The WTL MIB support is organized as follows:

Equipment Type	System MIB	Trunk MIB	RTP MIB
IPNx	Y	Y	Y
SoIP	Y	Y	Y
PVx / Soft IVR	Y	N	N
IPNx DG	Y	Y	Y
IPNx AG	N	N	N

The Solaris Operating System used in WTL switch products supports MIB I and MIB II (RFCs 1156 & 1213). This includes query-able information on the following equipment attributes:

- System (system name, time etc)
- Interfaces
- Address Translation
- IP
- TCP
- UDP