

SCIENTIS SOLUTIONS
Connecting Networks



Wireless Network Management Solutions
HGX-X GSM / GPRS / UMTS / HSPA Series

Scientis Solutions Limited provides multi- vendor technology, end-to-end network element and data connectivity monitoring platforms, together with a range of Network Management System integration possibilities. We have developed cost effective end-to-end solutions and a complementary services portfolio, enabling our clients to have complete visibility and control of their networks, improved detection of network failures and reduced repair times, while significantly reducing operational expenditure. From various types of site monitoring and control solutions, through to integration into existing NMS/EMS platforms, Scientis Solutions provides a comprehensive multi-vendor and technology proposition.

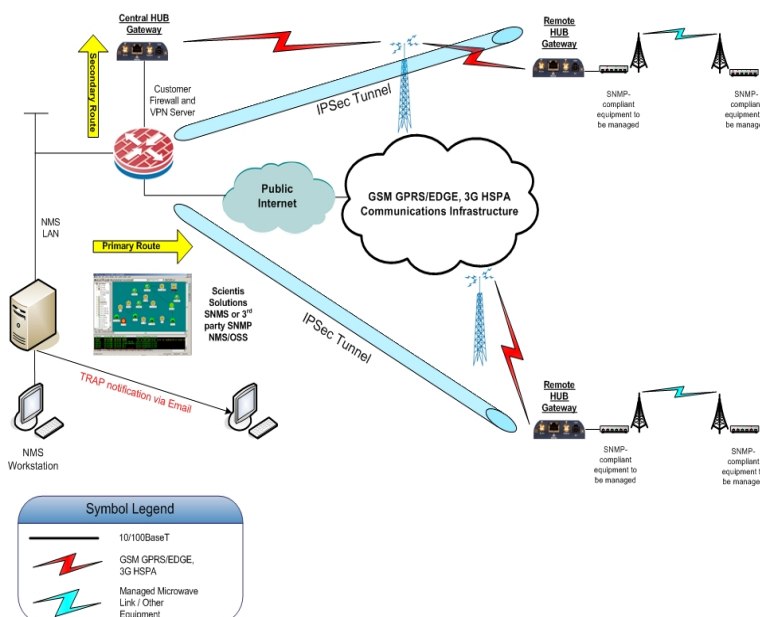
HGX-X GSM / GPRS /UMTS /HSPA Series

Our HGX-X series lowers your operational expenditure by eliminating leased line connectivity for Network Management Communications to remote site equipment. The HGX-X HUB Gateway series provides full visibility of previously un-manageable equipment. The HGX-X Hub Gateway allows all local equipment MMI (man-machine interface) features to be available back at the NOC. In addition, any alarms or events received from a particular site can be interrogated from the NOC location.

Application

The HGX-X HUB Gateway device is scalable to allow management of between 1 and 60 remote Network Elements. The radio network access method (GPRS/EDGE or 3G HSPA) also has a bearing on the number of remote NEs that can be supported. The second option is to deploy one or more additional HUB Gateway devices, acting as central aggregation/ concentration points. It is also possible to create a hybrid of these two approaches i.e. use the existing high-capacity internet connectivity as the primary DCN path to the remote Wireless HGX-X HUB.

SNMP traps received from the remote monitored equipment are passed immediately to the central NOC location over the Wireless HGXR HUB Gateway link via the mobile network, where they are displayed on the SNMP-compliant NMS.



© Copyright Scientis Solutions Limited, 2010

Key Features

- ✓ Always-connected - simulates fixed-line DCN connections - equal reliability and quality of service open platform architecture
- ✓ The HGX-X HUB Gateway device is scalable to allow management of between 1 and 60 remote Network Elements
- ✓ Seamless integration into SNMP NMS platforms
- ✓ Vendor-independent.
- ✓ The radio network access method (3G / GPRS / EDGE) also has a bearing on the number of remote NEs that can be supported
- ✓ One or more additional HUB Gateway devices, can be used to act as central aggregation / concentration points
- ✓ It is also possible to create a hybrid of these two approaches i.e. use the existing high-capacity internet connectivity as the primary DCN path to the remote Wireless HGX-X HUB.
- ✓ SNMP traps received from the monitored equipment are passed immediately to the central NOC location and displayed on the SNMP-compliant NMS
- ✓ The NMS operator has the ability to connect to the Network Element that reported the alarm(s), and use existing 3rd party tools or Scientis Solutions developed tools for further interrogation and fault resolution
- ✓ Additional feature allows for the NMS to forward alarm notifications to interested parties via email or via SMS (requires additional software and hardware components)
- ✓ Compatible with dynamic or static IP assignment from operator
- ✓ Secure transport via IPsec VPN/GRE tunneling
- ✓ NOC to remote Site connectivity for:
 - Fault Management
 - Performance Management
 - Inventory Management
 - Configuration Management

Technical Specification



	HGXS	HGXR	HGXD
Wireless Technologies			
HSUPA / HSDPA / UMTS	Yes	Yes	Yes
2G / GPRS / EDGE	Yes	Yes	Yes
EVDO	No	Yes	Yes
Product Features			
Power 9 – 28v d.c.	Yes	Yes	Yes
Power -12v to -48v d.c.	No	No	Yes
Ethernet 10mb x 1	Yes	Yes	Yes
Ethernet 100mb x 1 / x4	No /No	No /No	Yes /Yes
Static Routing	No	Yes	Yes
USB port x 1	No	Yes	Yes
Serial port	No	No	Yes
Oper. Temp 0 to 55 C	Yes	Yes	Yes
Oper. Temp -25 to 70 C	No	Yes	Yes
Oper. Temp -30 to 70 C	No	Yes	No
DIN rail mount	No	No	Yes
Security			
IPSec – Normal security	No	Yes	Yes
IPSec – Enhanced	Yes	No	No
Open VPN (2048bit)	Yes	No	Yes
GRE / P2PP / L2TP	Yes	Yes	Yes
Software Features			
Port Forwarding	Yes	Yes	Yes
MAC & IP address Filtering	No	Yes	Yes
Software Watchdog	Yes	Yes	Yes
Events Reporting / Logging	No	Yes	Yes
VPN profiles	No	Yes	Yes
Antenna type			
SMA	Yes	Yes	Yes
Rx Diversity - SMA	Yes	Yes	No

Scientis Solutions Limited
Innovation Centre, 49 Oxford Street
Leicester LE1 5XY, England

Registered in England, no. 6851268
Email: sales@scientis.co.uk
Web: <http://www.scientis.co.uk>

SCIENTIS SOLUTIONS
Connecting Networks



© Copyright Scientis Solutions Limited, 2010
Disclaimer: Information may change without notice