

## NetworkAdvantage™ Management System

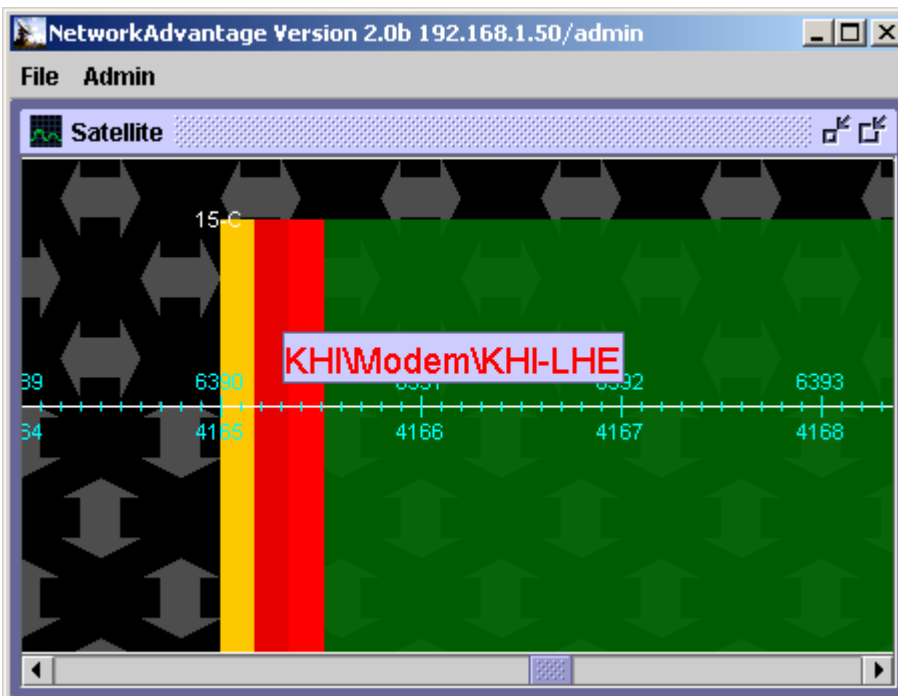
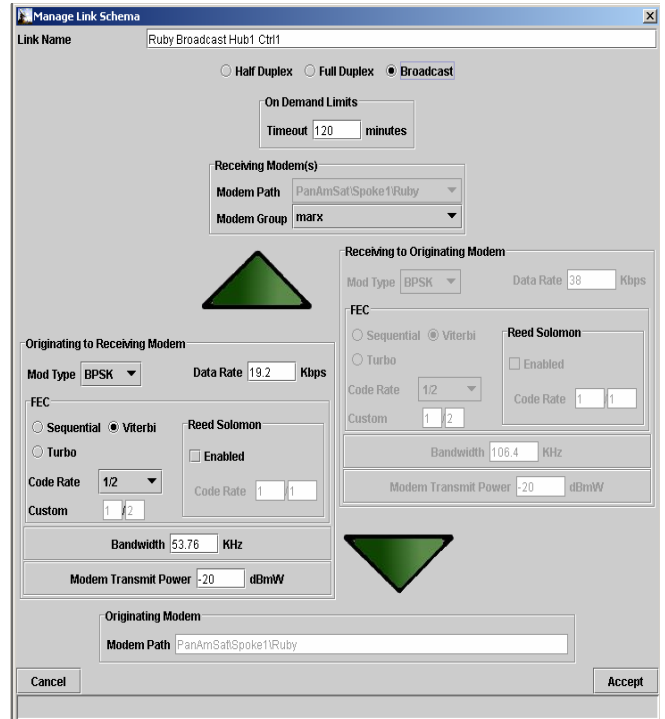
NetworkAdvantage™ Management System is the core management software suite and Graphical User Interface to manage bandwidth and service provision over satellite data communication links.

NetworkAdvantage™ Management System comprises:

- Configuration and administration of Node Controllers, bandwidth, transmission schedules and customers.
- Database, storing network & customer information, activity records and logs.
- Bandwidth server, allocating scheduled bandwidth or 'Bandwidth on Demand'.

NetworkAdvantage™ Management System allows operators to:

- Configure full network details of satellite and transponder, customers or modem groups, remote sites and modems.
- Define available bandwidth pool (including non-contiguous bandwidth segments).



- Establish links between network sites.
- Assign schedules of transmission over links.
- Issue reports for usage tracking or billing.

Links supported:

- One-way – simplex.
- Two way - duplex (symmetrical and asymmetrical).
- Multicast - from any transmitter to any other user-definable group of receiving sites.

NetworkAdvantage™ Management System's satellite link scheduling system flexibly supports both scheduled links and 'event initiated' links - Bandwidth on Demand.

NetworkAdvantage™ Management System's enhanced management capabilities can be applied to new networks or retrofitted to existing Single Channel Per Carrier (SCPC) networks for improved bandwidth efficiency. Support is available for many industry satellite modems.

Innovative Features	Benefits
Open systems support <ul style="list-style-type: none"> <li>• Supports many industry satellite modems</li> <li>• A variety of standard interfaces (DTR, SNMP, H.323)</li> </ul>	Manage the bandwidth in your existing network Customer applications can be easily integrated
Flexible bandwidth support <ul style="list-style-type: none"> <li>• 9.6kbps to &gt; 45Mbps</li> <li>• Non-contiguous bandwidth segments over several transponders</li> <li>• Minimum allocation 2.5 kHz steps</li> </ul>	Optimise bandwidth by weaving together a number of segments into a single bandwidth offering*
Flexible scheduling <ul style="list-style-type: none"> <li>• Repeat and single instance schedules</li> <li>• Non-scheduled links</li> </ul>	Transmission schedules established in seconds 'Bandwidth on Demand' for occasional use needs
Assign link relative priorities	Flexibility in link management and new service opportunities
Intuitive graphical user interface <ul style="list-style-type: none"> <li>• Easy link &amp; schedule setup</li> <li>• Easy navigation through your network</li> <li>• "Link Up NOW" command</li> </ul>	Operational cost savings  Rapid link initiation
Full management and activity reporting <ul style="list-style-type: none"> <li>• Exception logs</li> </ul>	Necessary data to bill customers or track costs
Support full mesh data network allowing remote sites to communicate directly without having to route via the hub	Flexibility in network application Unobtrusive network management
Out of Band Control Channel <ul style="list-style-type: none"> <li>• Support 254 Nodes per channel</li> <li>• Handle &gt;10 simultaneous requests</li> </ul>	Fully flexible, not restricted to TDM channels Scaleable
Supports multiple data systems and multiple customers <ul style="list-style-type: none"> <li>• Individual networks are non-overlapping</li> </ul>	Flexibility and operational cost savings
Remote administration software connected via Internet Protocols	Administration & control of bandwidth from almost any location
QNX Real-time operating system	Reliable and Robust – Suitable for Mission Critical Applications

\*The maximum size of a single link cannot exceed the size of the largest single bandwidth segment.

### Requirements:

- Computer (minimum specification): Pentium 450 MHz, 128 MByte RAM, 100 MByte free hard-drive space, 10/100BaseT Ethernet, Win2000/XP or Linux O/S
- **NetworkAdvantage™** Command Gateway CG 5300
- **NetworkAdvantage™** Node Controllers NC 5200 according to network requirements

Specifications subject to change without notice

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