

## CODICO® NMS-4000 Broadcast Headend Network Management System

### General

The NMS-4000 is a powerful, easy-to-use, Broadcast Headend Network Management System. It provides a comprehensive management system for various scopus' devices, as well as 3rd party products for seamlessly integrated monitoring and control of compression systems.

Scopus NMS is based on a distributed architecture, where either one or multiple sites can be monitored and controlled.

A user-friendly graphical interface of the network enables operators to drill down to each system element for monitoring and remote control purposes.

### Applications

- Distribution / Contribution over Telco and Satellite
- Direct to Home Cable, Satellite, DVB-T, IPTV
- Business TV

### Features and Options

- Support for scopus' encoders, multiplexers and decoders
- Support for matrixes, modulators and switches
- Graphical view of all system components
- Drill down of graphical view of multisystem management
- Distributed Client-Server architecture
- Centralized Alarm Monitoring, Filtering and Logging
- History log files for status and alarms
- Allows external managers to control any device via SNMP
- Supports 1+1 and M:N redundancy schemes
- Over-the-air S/W download and parameters for IRD's / STB's



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Comprehensive Compression  
System management

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Multi Site-Multi System

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Remote Management

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SNMP Support

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Graphical Network Display

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Automatic Redundancy

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Over the Air control

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Over the Air Software download

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Centralized/Distributed NMS

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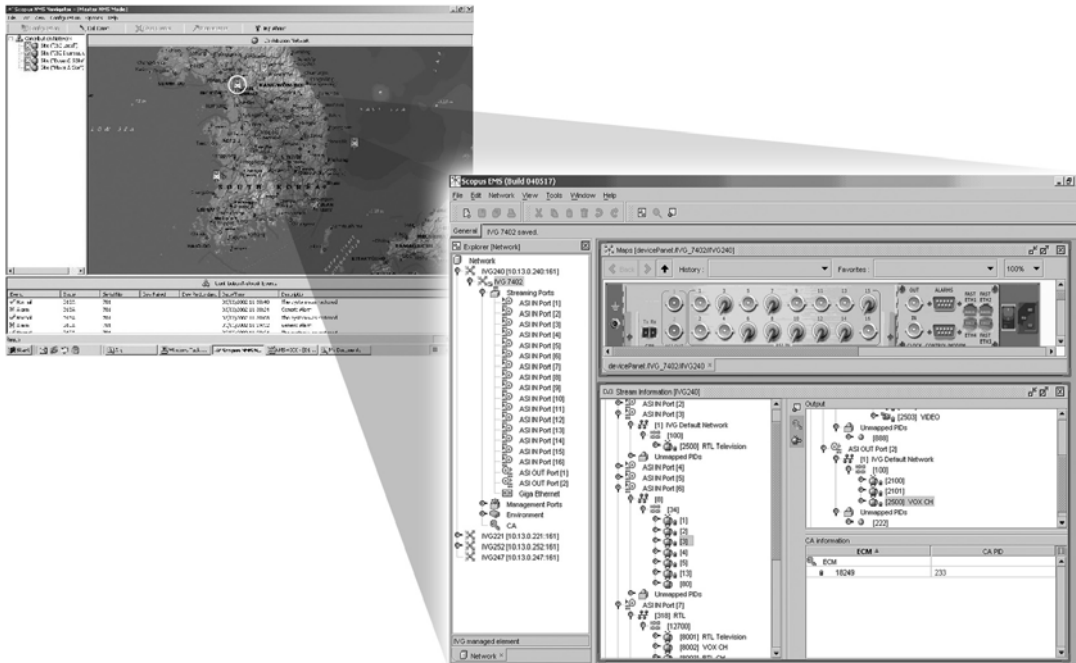
Flexible

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Customizable

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## Workstation Interfaces

Pentium 4, 2.4 GHz  
 512 MB RAM  
 Windows 2000 on either rack mount or desktop PC  
 10/100baseT  
 Serial (RS232, RS485)  
 Dry contacts (GPI)

## Protocols

SNMP, Ethernet, TCP/IP, UDP, FTP

## Device Management

- CODICO® Encoders, Decoders, Multiplexers
- Matrixes: Analog, Digital, ASI, RF, IF
- Switching Matrix Devices: (QAM, QPSK)
- ATM interface unit
- CheryPicker™, DM

## Redundancy

Manual, Automatic, 1:1, N: M

## Security

Three user access authorizations  
 Dynamic User Authentication

## Configurations

- SCPC – single channel setup of up to two encoders and two modulators
- MCPC – multi channel setup comprised of all elements with different redundancy options
- Multi MCPC – multiple MCPC systems with one central management
- Remote Management – special software for allowing management of any of the above configurations from a remote location
- Over the air control – special software add on for allowing S/W download and parameter change of IRD's and STB's
- Bandwidth Management – allows optimal usage of the multiplexer output rate

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