

RF Overlay NMS Network Management System

Overview

C-COR's RF Overlay NMS product is used to communicate with CATV equipment in a FTTx network. It summarizes and analyses equipment management information and provides the FTTx network with management support.

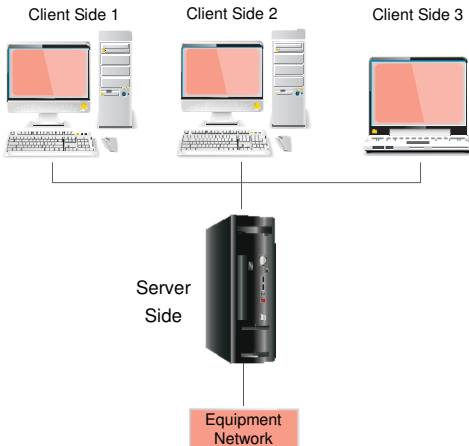
Manageable Equipment

- All equipment under C-COR's RF Overlay Portfolio;
- HFC equipment conforming to the GB T 20030-2005 HFC Network Equipment Management System Specification;
- HFC equipment made conforming to SCTE Specification;
- Other equipment with an SNMP protocol interface.

Functional Features

Proceeding from HFC network operation and maintenance, the RF Overlay NMS product contains the following five functions:

- **Failure management:** prompting, analysing and checking failure equipment, locating network failure source, filtering equipment alarm correlation and suggesting possible causes and solutions;
- **Topology management:** building and checking network topology structures;
- **Configuration management:** configuring equipment service parameters, alarm thresholds and network management system parameters;
- **Security management:** managing network account permission, management scope and related logs;
- **Performance analysis:** recording statistics of network equipment resources, failure conditions and patrolling of equipment to identify risks.



Features

- GB T 20030-2005, SCTE and SNMP Compliant;
- Failure Management;
- Topology Management;
- Configuration Management;
- Security Management;
- Performance Analysis;
- Client Server Architecture.



DATA SHEET

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Failure Management

- **Failure Source Analysis:** supporting finding out source alarms for network failure.
- **Alarm Correlation Filtering:** supporting analysing equipment alarm correlation to reduce any meaningless warnings;
- **Failure Classification:** supporting classifying failure according to whether to affect user services. Failure Statistics: supporting checking total failures available in the network;
- **Message Notification:** supporting notifying failure records via message. Voice Alarm: supporting voice warning of unconfirmed alarm records;
- **Failure Log:** supporting checking and searching for historical failure records.

Topology Management

- **Network Topological Graph:** supporting building and checking network topology and its alarm status.
- **Topological Grouping:** supporting network topology grouping management according to local area machine rooms;
- **Topological Map:** supporting self-defining topological background maps and visually positioning physical locations of machine rooms.

Configuration Management

Equipment Configuration

- **Equipment Parameter Configuration:** supporting remote equipment service parameters configuration;
- **Equipment Information Configuration:** supporting self-definition of equipment name, installation location and other information;
- **Equipment Trap Configuration:** supporting uniform configuration of Trap parameters of national standard equipment;
- **Alarm Threshold Configuration:** supporting scheme use method, configuration of parameter thresholds of national standards or SCTE protocol equipment;
- **Equipment Service Configuration:** supporting scheme use method, configuration of service parameters for all relevant equipment.



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NMS Configuration

- **Authorization Mode:** adopting USB Key authorization
- **Message Modem Configuration:** supporting connection configuration of messaging modem;
- **Database Auto-backup Configuration:** supporting open/close database auto-backup function and selecting backup period and path.

Security Management

- **Account Management:** supporting creation, edition and deletion of system account and password modification, also quick account creation via roles;
- **Area-based Management:** supporting dividing management areas and management device range of control network accounts upon different groupings;
- **Authority Control:** supporting assigning different permissions upon accounts to control management device range of network accounts;
- **Account Log:** supporting checking and searching of account historical login, logout and operation records. Database Backup: supporting manual backup, restoration and periodically automatic backup of database.

Performance Analysis

- **Equipment Parameter Record:** supporting periodically recording equipment parameters and reflecting their changes via curves;
- **Equipment Resource Analysis:** supporting calculating equipment quantity upon equipment types, software version, working hours and manufactures;
- **Equipment Risk Analysis:** supporting risk equipment quantity statistics according to the scope of parameter fluctuation;
- **Historical Failure Analysis:** supporting calculating numbers of signal failures and common failures according to phenomena and causes.



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System Structure

The RF Overlay NMS is composed of following two parts:

- **Client-side software:** display NMS service data and transmit service requests;
- **Server-side software:** deal with NMS service data and business requests and one built-in database used for data storage.

Client-side Configuration Requirements

Item	Description
Processor	Core 2 Duo 1.8 GHz
Memory	2G
Disk Space	10G Residual hard disk space
Network Card	100 Mbps or more
Audio Card	Standard Windows audio card
Operating System	Windows 7
Running Component	Microsoft. NET Framework 4.0

Server-side Configuration Requirements

Item	Description
Processor	Xeon E5-2403 4 Core 1.8 GHz
Memory	8G
Disk Space	40G Residual disk space
Network Card	100M or more
Audio Card	Standard Windows audio card
Operating System	Windows Server 2008
Running Component	Microsoft. NET Framework 4.0

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Ordering Information

C-COR Part Number: 380.10.①.②.③

Code	Value	Description
P/N Prefix	380.	
① Type	1	Software of server
	2	Software of client
② Max. Number of Clients	1	5 clients
	2	10 clients
③ Equipment Number managed by NMS	10k	10k Monitored Elements

Note: Item ③ must be a value in 1,000s where k represents one thousand. E.g. above represents maximum 10,000 elements.

Item	Description
A380.1.1.10k	RF Overlay NMS, Server, 5 Clients, 10k Monitored Elements

Contact your local sales representative for product availability in your area and for other interface and option requirements.

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