

# Net Manager™

## Network Management - Satellite IP Video and Data Networks

### Features

- Minimize the cost of reconfiguring the network
- Change receiver configurations remotely over the satellite link
- Web-based GUI
- .NET/WSDL API for remote control and integration
- SNMP Daemon for terrestrial network configuration
- Change RF parameters on the fly without shutting down the network
- Easy to use point and click GUI
- Individual or group addressability
- In band receiver upgrades

**The Net Manager is a highly reliable GUI-driven network management system designed to control DVB/IP satellite receivers using in-band communications.**

Service providers often have deployed an extensive network of satellite receivers and are then faced with the daunting task of having to upgrade and reconfigure receivers already deployed and operational in a network. From satellite providers shuffling segment allocations that require new frequency assignment programming to network operators changing the carrier symbol rates to accommodate additional bandwidth, it is sometimes necessary to re-program carrier parameters for each receiver. Net Manager helps operators address these challenges.

Net Manager is IDC's next generation network management system designed to work with IDC's portfolio of audio, video and data products. Featuring a Web-based GUI for operator-friendly local and/or remote operation, this robust system supports multiple languages. Delivered on a highly integrated hardware/software platform.

With the ability to interface and control individual receivers, groups of receivers and entire networks via the satellite link, Net Manager securely maintains configuration information for each receiver. The audio, data and control outputs of SuperFlex® Pro Series™ Receivers, as well as their receive frequencies and demultiplexer parameters can be administered by Net Manager remotely.

Net Manager is also capable of sending upgrades in a foreground queue or continuous background queue.

Net Manager generates a UDP/IP multicast data stream which is injected into the DVB carrier by an IP Encapsulator. This data stream is then received and interpreted by the satellite receivers as it contains addressing, authorization and routing information.

All receivers tuned to the DVB carrier receive the Net Manager control data stream. They decode addressing information within the IP data stream to determine which data to extract and use for configuration.

Each SuperFlex Pro Series Receiver contains a unique IDC address, and may also be a member of one or more receiver groups. Each Net Manager message contains either an individual IDC receiver address or a group address allowing for efficient configuration updates to as many or as few receivers as needed.

As a background task, Net Manager continuously transmits each receiver's configuration; ensuring the proper network configuration. The Net Manager message addressed to any specific receiver includes a sequence number that increments whenever a change in configuration occurs. This allows the receiver to optimize its handling of Net Manager messages.



## TECHNICAL SPECIFICATIONS—Net Manager

POWER REQUIREMENTS	
Supply Voltage	100 to 240 VAC, +6%, -10%, 50 or 60 Hz
PHYSICAL PARAMETERS	
Chassis	1U rackmount server platform
Dimensions (H, W, D)	5.4 cm x 48 cm x 40 cm (1.75" x 19" x 16")
Weight	8.5 kg (18 lbs.)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	0° to 50° C (32° to 122° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	Maximum 90% relative, non-condensing



[Logout] INTERNATIONAL DATA SERVICES

[DVB/Carrier] | [Receiver List] | [Receiver Groups] | [Logging] | [Receiver Upgrade] | [Utilities] | [NetManager Config]

**Receiver List**

Show Selected

Add Receiver

Edit Selected

Delete Selected

Search Receiver

Set Defaults

Add Receiver using Defaults

Back to main

Cancel Changes

Send Update

### Edit Receiver Record

**IDC Receiver Address:** b800293956

**Description:** 3109 ProAudio

**Serial Number:** 02123154

**L-Band (sat0) IP:** 10.0.41.57

**Net 1 (eth0) IP Mode:** Set Locally

**Net 1 (eth0) IP:**

**Net 2 (eth1) IP Mode:** Set Locally

**Net 2 (eth1) IP:**

**Set Default Gateway:** Set Locally

**Default Gateway:**

**Static Routing:** Set Locally

**Receiver Name:** 3109 ProAudio

**Receiver Type:** SFX Series Receiver

**Transport Standard:** DVBS8S2

**L-Band (sat0) Netmask:** 255.0.0.0

**Net 1 (eth0) Netmask:**

**Net 2 (eth1) Netmask:**

**Upgrade Application Mode:** AUTO

**Redundancy Support:**  ON  OFF

**Async Port:**  ON  OFF

**Sync Port:**  ON  OFF

**Net Port:**  ON  OFF

Control Channel 1 sent 1999225791 bytes      Control Channel 2 sent 330 bytes

Database:       Database:       10 sec.

Upgrade (0): Disabled      Upgrade (0): Disabled



**Digisat International Inc.**  
 4195 W. New Haven Ave., Suite 15  
 Melbourne, FL 32904  
 USA  
 +1-321-676-5250  
 Email: sales@digisat.org  
 http://www.digisat.org