
MGW 2400 Installation Notes

To ensure proper installation and performance, please follow these instructions carefully.

Installing and Configuring for the Network

1. Unpack and rack-mount MGW 2400 as explained on page 10 in MGW 2400's User's Manual.
2. Before you connect the power cable, install the desired encoding modules and connect the relevant sources as explained on page 16 in MGW 2400's User's Manual.
 - Make sure that you never install or remove encoding modules while running MGW 2400. This will cause damage to MGW 2400's chassis and encoding modules.
 - Make sure that you use stable sources. Unstable sources may cause MGW 2400 to respond improperly.
3. Connect MGW 2400's Ethernet links to two separate network segments. If you connect both Ethernet links to one network segment, MGW 2400 will fail to operate properly.
 - We recommend using NIC A for streaming and NIC B for management via MGW 2400 EMS.
 - We recommend using Layer-III compliant network devices. Do not use hubs.
 - Make sure that MGW 2400's transmitting NIC, relevant WMS servers and network drives belong to the same workgroup and VLAN. You may wish to access network drives for file output and NSC files that are required for multicast streams.
4. Use a serial cable and connect the COM1 port of a PC that has HyperTerminal installed to MGW 2400's RS-232 port as explained on page 20 in MGW 2400's User's Manual.
 - If you connect MGW 2400's RS-232 port to a port other than COM1, MGW 2400 cannot communicate with that PC.
5. To avoid network conflicts, make sure that you do not have a network device with the hostname **MGW2400** already connected to the network. If you have such a device connected, change the hostname before you switch MGW 2400 on.

6. Switch MGW 2400 on. MGW 2400 is ready to communicate once the Power LED turns green.
7. Start HyperTerminal and log on to MGW 2400 as **Administrator**; MGW 2400 initializes and TCP/IP settings are automatically set. The user name and default password are **Administrator**.
 - By default, DHCP is disabled for NIC B. If you connect two DHCP enabled network segments to NIC A and B, TCP/IP settings are automatically set for NIC A only. Use the Configuration Utility and manually configure the TCP/IP settings for NIC B as explained on page 34 in the User's Manual.
 - If a connected network segment is DHCP enabled, TCP/IP settings are automatically set for the relevant NIC.
 - If a connected network segment is not DHCP enabled, you have to manually configure the TCP/IP settings. Refer to page 34 in MGW 2400's User's Manual for instructions.
 - We strongly recommend changing MGW 2400's hostname after MGW 2400 finished initializing. Refer to page 25 in MGW 2400's User's Manual for instructions.
 - To ensure proper communication with external WMS servers, set the network mode to **100Mbps Full Duplex** on both the Management PC and the MGW 2400 unit. To set the network mode for MGW 2400, refer to page 29 in MGW 2400's User's Manual.

Getting Started

1. To operate MGW 2400, you must have the MGW 2400 EMS installed on a PC on the network. This PC is referred to as Management PC. For instructions on installing the MGW 2400 EMS, refer to page 54 in MGW 2400's User's Manual.
 - If the Management PC has more than one NIC installed, use the Add/Remove Hardware wizard to disable the additional NICs.
 - The Installation wizard may respond slowly. We recommend not repetitively issuing commands.
2. To add a channel, refer to page 73 in MGW 2400's User's Manual.
 - For encoding parameters, refer to page 81 in MGW 2400's User's Manual.
 - You may add up to eight targets for each encoding channel, which may include one File target. For target parameters, refer to page 86 in MGW 2400's User's Manual.
 - Under Target parameters, we recommend leaving the UDP Block Size at **0 (Automatic)**.
 - Make sure that ports and IP addresses are unique for each target.

- We recommend writing ASF and NSC files to shared network drives and not to SCSI disks. The path with the relevant file name will look as follows:
\\PC\shared_folder\File.nsc
\\PC\shared_folder\File.asf
Do not specify user names and passwords for network drives belonging to PCs that run under Windows XP.
- If the relevant network drive belongs to a PC that runs under Windows 2000 or XP, you have to enable **Guest**. Refer to the relevant Windows documentation for instructions.
- All shared network drives for ASF and NSC files must belong to the same workgroup and VLAN as MGW 2400.

Playing a Channel

1. To start the channel, click **Play**.
 - If the channel stops and returns an error, right-click the relevant line in the Channels list to view the associated error message. For an explanation and possible solutions to your problem, refer to the MGW 2400 EMS help file.
2. To receive and view the stream, we recommend using Windows Media Player 7.1 as explained on page 93 in MGW 2400's User's Manual. To open a unicast stream, you can use one of the following three protocols:
 - **mms://** Uses UDP network connection (default).
 - **mmst://** Uses a TCP/IP network connection and ensures packet recovery. It requires very high CPU resources.
 - **http://** Supports every network infrastructure, but encounters staggering at high traffic.