
MGW 2000 2.8

Utilities

User's Guide



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In this Guide

- Overview, page 1
- List of Utilities, page 2
- Installing the Utilities, page 3
- The Upgrade Utility, page 3
- The Flash Recovery Utility, page 6
- The Management Utility, page 9

Overview

MGW 2000 comes with three utilities that you install on a PC that communicates with MGW 2000 via the network. The following table lists these utilities and their tasks:

| Utility | Task |
|------------------------|---|
| Management Utility | Exports the configuration file localhost.ini for submission to the Customer Support department in case of problems. Imports, exports and edits the SAP Configuration file Announcer.ini. |
| Upgrade Utility | Upgrades MGW 2000. |
| Flash Recovery Utility | Resets MGW 2000 to the state of purchase. |

Installing the Utilities

1. Make sure that MGW 2000 and the relevant PC are connected to the same network and can communicate with one another.
2. Insert MGW 2000's CD into the relevant PC's CD-ROM drive.
3. On this CD, go to **MGW 2000 Utilities** and run **Setup**; the Installation wizard appears.
4. Follow the Installation wizard; MGW 2000's utilities are installed.

The Upgrade Utility

MGW 2000's upgrade utility allows you to upgrade MGW 2000's software. It also allows you to replace and add specific files. Replacing and adding specific files will be referred to as selective upgrades.

To open the Upgrade Utility:

- Go to the **Start** menu and then to **Programs**; select **MGW 2000 Utilities** and then **Upgrade Utility**. The Upgrade Utility's screen appears.



To upgrade MGW 2000:

1. If you perform a selective upgrade, create a folder called **MGWUpgrade** on drive **C** and copy the relevant files into this folder. For information on required files for a specific upgrade, refer to the relevant upgrade release notes.

Files for upgrading MGW 2000 2.7 to 2.8 have been installed with the MGW 2000 utilities. For any other upgrades, refer to the relevant upgrade release notes.

2. Enter MGW 2000's IP address or hostname and the Administrator's password into the respective fields and click **Start Upgrade**; the upgrade utility logs on and copies files to MGW 2000.
3. Restart MGW 2000 once you are asked to do so; MGW 2000 upgrades. You will be notified once the upgrade is finished.
4. Click **OK**; the upgrade utility closes.



- If you copy the upgrade files for a selective upgrade into a folder or drive other than **C:\MGWUpgrade**, MGW 2000 will not upgrade.
- MGW 2000's network settings and channel profile reset to the state of purchase. We strongly recommend making a note of your customized settings before you start recovering MGW 2000. You can use the table in MGW 2000's User's Manual provided for your convenience.
- After performing a full upgrade, you must connect the Configuration PC to MGW 2000 and configure it like a newly purchased unit. For instructions, refer to the next page.

To reconfigure MGW 2000:

1. Use a serial cable to connect the Configuration PC's COM1 port to MGW 2000's RS-232 connector.
2. On the Configuration PC, open HyperTerminal and log on to MGW 2000's Configuration Utility as Administrator with the default password **Administrator**; the Main menu appears.
3. Refer to MGW 2000's User's Manual for instructions on how to initialize and configure MGW 2000's network settings and customize MGW 2000's channel profile.

The Flash Recovery Utility

In case of problems, you can reset MGW 2000 to the state of purchase. To recover MGW 2000, you connect the Configuration PC with the MGW 2000 Utilities installed to MGW 2000's RS-232 port and use the Recovery Utility as explained below.

To prepare the Configuration PC and MGW 2000:

1. Connect MGW 2000's RS-232 port to the Configuration PC's COM1 port. If you connected MGW 2000's RS-232 port to any other COM port, MGW 2000 cannot communicate with the Configuration PC.
2. If not already done, install the MGW 2000 Utilities on the Configuration PC as explained on page 3.
3. Label MGW 2000's NICs and the associated network cables with stickers and then disconnect the network cables from the NICs.



- MGW 2000's network settings and channel profile reset to the state of purchase. We strongly recommend making a note of your customized settings before you start recovering MGW 2000. You can use the table provided in MGW 2000's User's Manual provided for your convenience.
- After recovering MGW 2000, you must connect the Configuration PC to MGW 2000's RS-232 port and configure it like a newly purchased unit. For instructions, refer to MGW 2000's User's Manual.

To open MGW 2000's Recovery Utility:

- Go to the **Start** menu and then to **Programs**; select **MGW 2000 Utilities** and then **Recovery Utility**. The Recovery Utility's screen appears.



Figure 1: Recovery Utility Screen

To recover MGW 2000:

1. Switch MGW 2000 off, wait 5 seconds and switch MGW 2000 on again; MGW 2000 resets to the state of purchase, which takes about three minutes. A status bar and messages in the Recovery Utility screen display the status of the procedure.
2. If you don't see the status bar after 3 minutes, the procedure did not start. In this case, do one of the following before repeating the procedure.
 - Make sure that your COM1 port works properly and no other application is already using COM1.
 - Quit MGW 2000's Recovery Utility, restart the Configuration PC and repeat the previous steps.

If none of the above helps, call for technical support.

3. A message notifies you once MGW 2000 has finished resetting. Click **OK** to close the Recovery utility; MGW 2000 has been reset to the state of purchase.

To reconfigure MGW 2000:

1. Re-connect MGW 2000's NICs to the network segments to which they were connected before the upgrade and leave the Configuration PC connected to MGW 2000's RS-232 connector.
2. On the Configuration PC, open HyperTerminal and log on to MGW 2000's Configuration Utility as Administrator with the default password **Administrator**; the **Main** menu appears.
3. Refer to MGW 2000's User's Manual for instructions on how to initialize and configure MGW 2000's network settings.
4. Refer to chapter 3 for instructions on how to customize MGW 2000's channel profile.

The Management Utility

MGW 2000's Management Utility lets you export the Configuration file localhost.ini. This file holds the last-saved channel profile's parameters.

It also lets you enable the SAP feature.

Exporting the Configuration File Localhost.ini

MGW 2000's last-saved channel configuration is saved in a file called **localhost.ini**. If you call for technical support, you might be asked to export and submit this file so that the problem that you have can be analyzed.

To export the Configuration file:

1. To open the Management Utility, go to the **Start** menu and then to **Programs**; select **MGW 2000 Utilities** and then **Management Utility**. The Management Utility's screen appears.



2. In the Management Utility screen, under **MGW Configuration File**, click **Export (localhost.ini)**; you will be asked for a location to save this file.
3. Choose a location and click **Open**; **localhost.ini** has been exported to your PC. You exported this file for technical support. Do not edit and do not try to import this file back to an MGW 2000 unit.

The SAP Utility

The Session Announcement Protocol (SAP) is a mechanism that transmits associated information along with the respective stream to a multicast address. The player on the receiver side retrieves and displays this information and enables you to view a list of channels and select the desired channel for playing. This information is compiled based on the Session Description Protocol (SDP).

An SAP server announces a session by periodically multicasting announcements consisting of an SDP session description to a multicast address. The sender defines the intervals for sending these announcements and an SAP compatible receiver translates and displays the transmitted information.

MGW 2000 supports the Session Description protocol (SDP) and the Session Announcement protocol (SAP) in accordance with RFC 2974 and RFC 2327 respectively. For further information, refer to the relevant RFCs at <http://www.faqs.org/rfcs/rfc2974.html> and <http://www.faqs.org/rfcs/rfc2327.html>

You use the MGW 2000 Director to enable or disable SAP. The SAP Configuration file `Announcer.ini` contains default information set as comments. The SAP Utility runs automatically based on the default parameters contained in the `Announcer.ini` file. The `Announcer` file contains

default parameters relating to the standard SAP and has been tested with InfoValue's QuickVideo player.

An SDP session description consists of text lines following the scheme below:

<type>=value**>**

<type>. One case sensitive character

<value>. Structured text string whose format depends on **<type>**.

<value> is also case-significant unless a specific field defines otherwise. White space is not permitted either side of the '=' sign. In general **<value>** is either a number of fields delimited by a single space character or a free format string.

When SDP is conveyed by SAP, only one session description is allowed per packet.

To enable SAP:

1. On MGW 2000 Director's Target page, check **SAP**; the SAP server transmits the Announcer.ini file and information regarding the transmitting stream can be retrieved on the receiver side.
2. If you transmit RTP streams and you wish to enable SAP, you should choose the RTP A+V (SAP/SDP) target to ensure that SAP is enabled for both video and audio together. For instructions on how to choose the RTP A+V (SAP/SDP) target, refer to MGW 2000's help file.
3. To disable SAP, clear **SAP**. To export the SAP Configuration file:

Editing the announcer.ini file

If desired, you may edit some of the comments in the announcer.ini file to publish additional information. To edit the announcer.ini file, you first have to export the file to your hard drive. After editing the file, you need to import it back to MGW 2000 (see page 12).

You can add, remove and change the parameters listed below. We strongly recommend that parameters not listed below be left unchanged. Changing them might result in SAP failure.

The following parameters should not be edited:

- Session Level Fields
- Media Level Fields

Example of Announcer.ini

Parameters not added by default are marked with "--" in the relevant column. By default, all parameters are disabled with a "/" before the Equal sign ("="). To enable commands, remove the "/".

```
v/=0
o/=- 49451 3 IN IP4 127.0.0.1
s=OPTIBASE ISMA Session
i=Optibase ISMA Compliant stream
u=http://www.optibase.com
e=support@optibase.com (Person)
```

The following lines should not be edited:

```

a/=cat:3
a/=tool:IP/TV Program Guide 1.6.0.71
a/=type:broadcast
a/=x-precept-type:scheduled
m/=video 11112/1 RTP/AVP 31 32 96
c/=IN IP4 224.1.1.1/15
a/=rtpmap:96 WBIH/90000
m/=audio 11114/1 RTP/AVP 0 3 5 14 96 97 98 99 100 101 102
103 104 105 106
c/=IN IP4 224.1.1.1/15
a/=rtpmap:96 X-WAVE/8000

```

Only the following User Defined Fields can be edited:

| Description | Format | Default |
|--|---|---------------------------|
| Phone number | p=<phone number> | -- |
| Email address | e=<email address> | e=support@optibase.com |
| URL | u=<URL> | u=http://www.optibase.com |
| Status. States the status of the transmitting stream | a=status:<value> where value can be one of the following: "live", "ok", "error", "pause", "stop" | -- |
| Video format | a=vformat:<value> where <value> can be either "MPEG1" or "MPEG2" | -- |

| Description | Format | Default |
|---|--|-------------------------------------|
| Loop. Chooses whether to play the stream in Loop. | a=loop:<value> where value is either 'Y' or 'N' | -- |
| Cisco IP/TV Player related parameter. Remove this parameter if you use any other player than Cisco's IP/TV. | Cisco IP/TV Player related parameter | a=cat:3 |
| Used player | a=tool:<Player><version number> | a=tool:IP/TV Program Guide 1.6.0.71 |
| a=broadcast type | a=type:<type> where <type> can be "unicast", "multicast", "broadcast". | a=type:broadcast |
| Cisco IP/TV Player related parameter. Remove this parameter if you use any other player than Cisco's IP/TV. | -- | a=tpmap:96 WBIH/90000 |
| Cisco IP/TV Player related parameter. Remove this parameter if you use any other player than Cisco's IP/TV. | -- | a=rtpmap:96 X-WAVE/8000 |

To export the announcer.ini file

1. Open the Management Utility as explained on page 9. In the Management Utility screen, under SAP Configuration, click Export; you will be asked for a location to save this file.
2. Choose a location and click Open; Announcer.ini is exported.
3. Before you start editing, create a backup copy of the file Announcer.ini.
4. In the Management Utility screen, under MGW Configuration File, click Edit; Announcer.ini opens in a Notepad window.
5. Edit the file as explained below and then save it.

To import the SAP Configuration file:

1. In the Management Utility screen, under **SAP Configuration**, click **Import**; you will be asked for the file's location.
2. Navigate to the relevant folder and click **Open**; **Announcer.ini** is imported to MGW 2000.