Amb-OS User Interface Software Manual

Table of Contents

INTRODUCTION

The Amb-OS User Interface is designed to help you get satellite delivered programs to air quickly, conveniently and without user intervention.

1. You can create a playlist to allow you to air or record programs directly from the AMR-100 receiver.
2. You can transfer program files from the AMR-100 to your local computer for playback from your automation system in the following ways:
   o Programs can be transferred as soon as they arrive
   o Programs can be transferred only when you want them transferred
   o Programs can be transferred manually
3. When files are transferred, they can also be renamed and converted

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NOTE

The Amb-OS User Interface actually just copies files from the receiver to a local hard disk and leaves the original file on the AMR-100. However, since the use of "transfer" has been used to refer to this process, this document uses "transfer" even though it does a copy from the receiver.

The Rename Files section describes the process of changing the name of a program when it is transferred and how to schedule a transfer of the program. The main reason to schedule a program transfer is if you use the same filename every day. Because some programs are sent in advance, the new program would overwrite the current program. However, if you use different names, you can enable Miscellaneous transfers to transfer and rename the program as soon as it arrives. It is also possible to transfer a program file manually.

It is important to understand:
1. If you use the Amb-OS User Interface to transfer programs, it must be running at all times.
2. If you use the AMR-100 as your playback device and do NOT transfer any programs, the Amb-OS User Interface does not need to be running for the AMR-100 to play a program.

The Amb-OS User Interface also has two log windows that help you with troubleshooting any problems and, more importantly, give you the status of programs being received and transferred. The one most used is the Activity Log window, because it is the one that shows you what programs have arrived and whether they were transferred.

INSTALLATION

File Installation

Download the Amb-OS User Interface from http://www.Amb-OS.com/support.html. Click on the link for "User Interface (UI) Software" and save the file to your computer. It will save the file as a "ZIP" file. You will need to unzip the program. Under Windows XP® or later, you can double click on the ZIP file and extract the program. The following screen shots are from Windows XP® in classic mode.
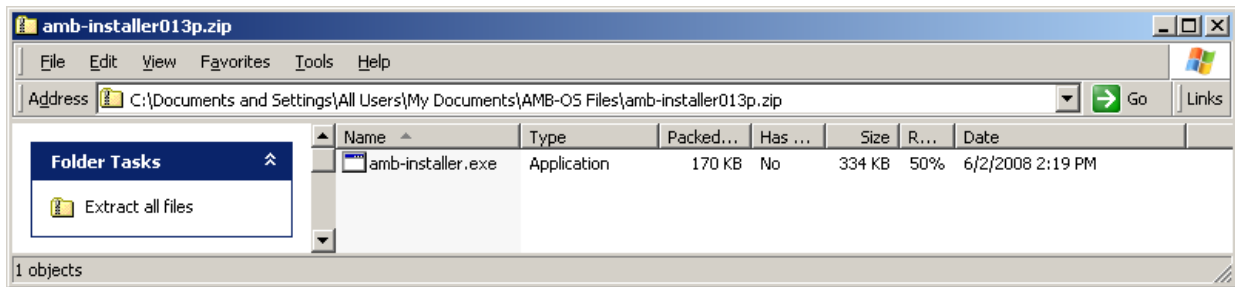
Normally, on the right is the option to "Extract all files" and you should click on it and follow the instructions that come up with that. At the end of the extraction process, you can click on the option to show extracted files and then press "Finish" to see the files.
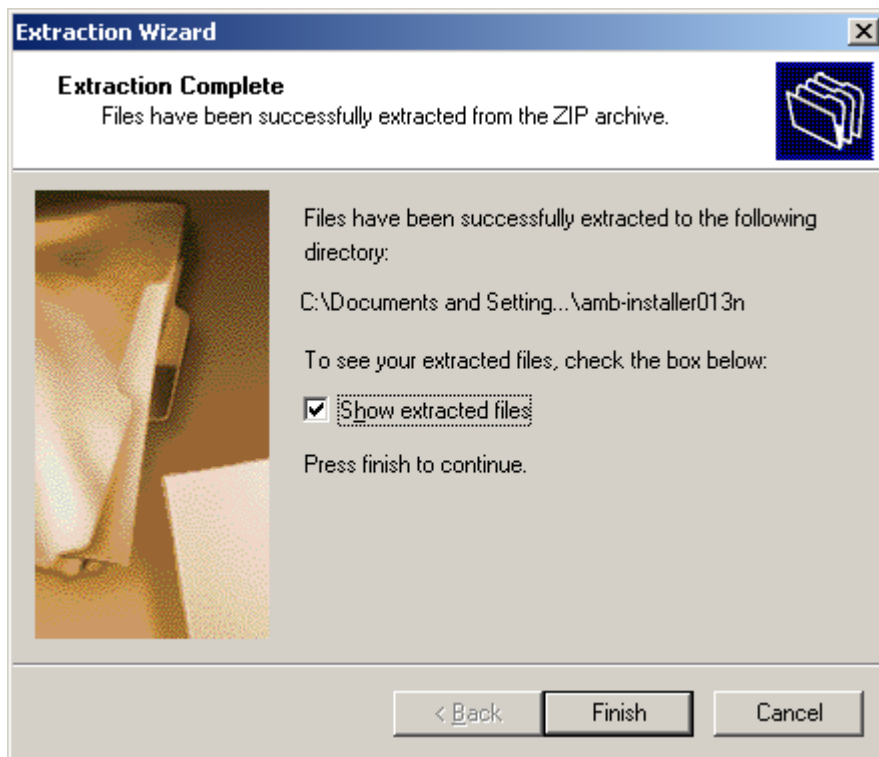
You will then see the installer program "amb-xfer.exe" and you should double click on it and begin the installation process.
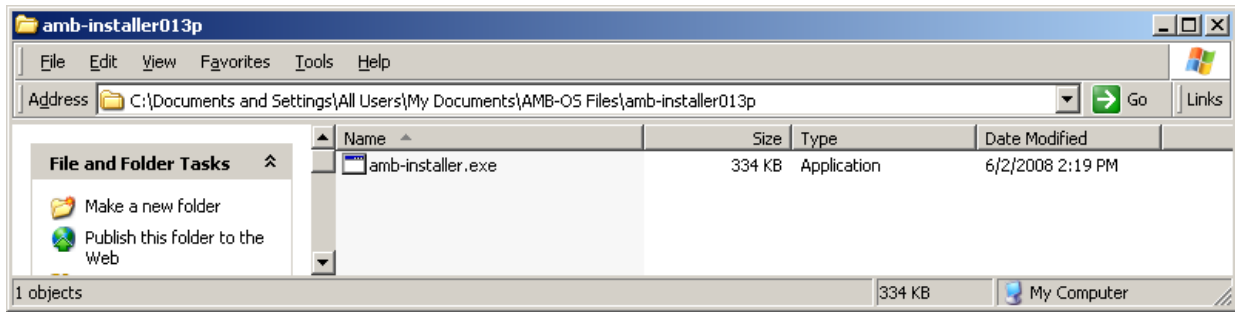
Depending on your operating system, after double clicking on "amb-installer.exe," you may see the following:
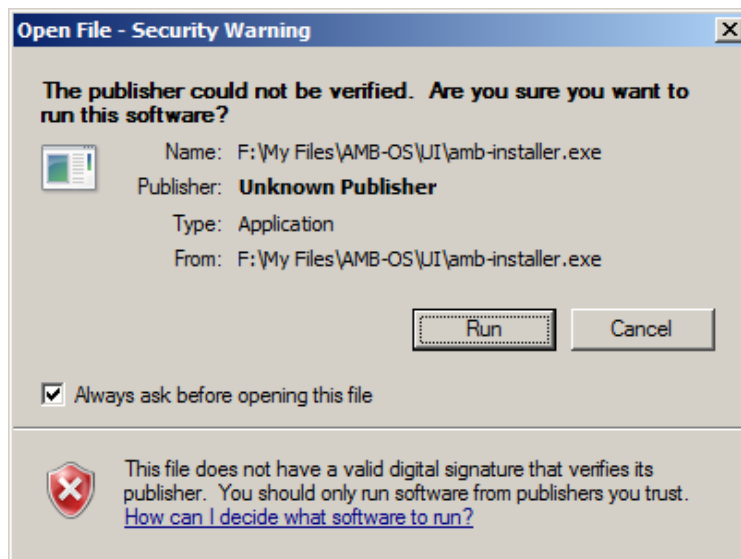
If this window appears, click on "Run" to install the program.

When the install programs runs, it will bring up this window.
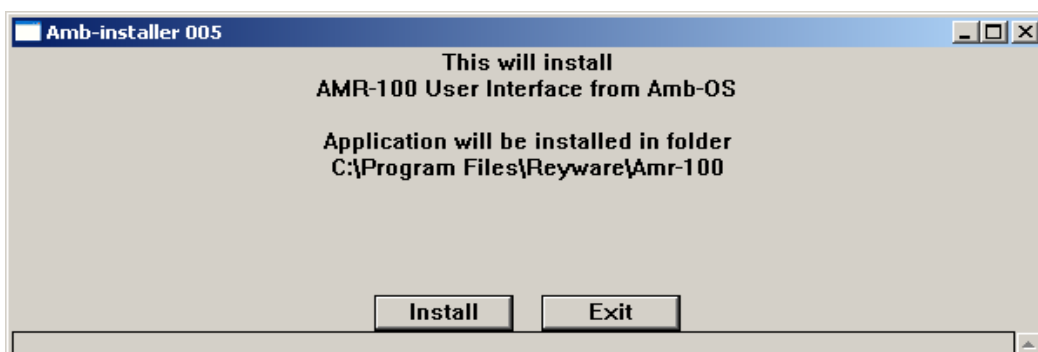
The install process will put a shortcut on your desktop for easy access. If you chose to not install the file, click exit. Remember that you must use this program to create playlists and to transfer audio programs from the AMR-100 receiver.

Click on "Install" to install the program.

The window displays the progress of the installation and the install button will "gray" out to show you that it is installing the program.
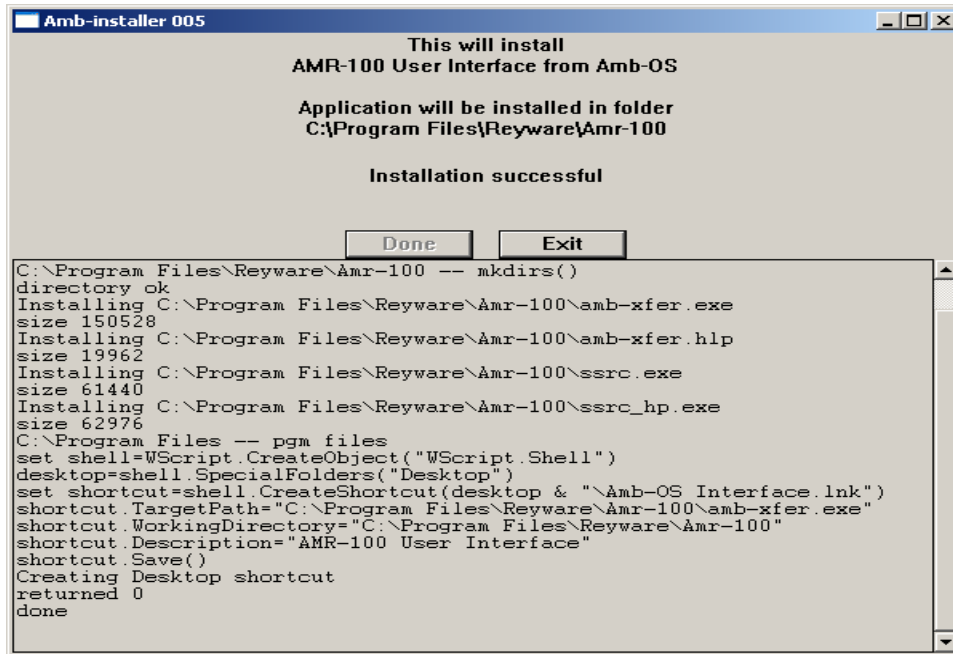
When the installation is complete, the "Install" button changes to "Done," but it remains "grayed" out. Press "Exit" to complete the installation.

WARNING
Wait until "done" appears at the bottom of the window before pressing "Exit" or you will not finish the installation.

After you press "Exit" in the installer window, some versions of Microsoft Windows®, may give you the following warning:
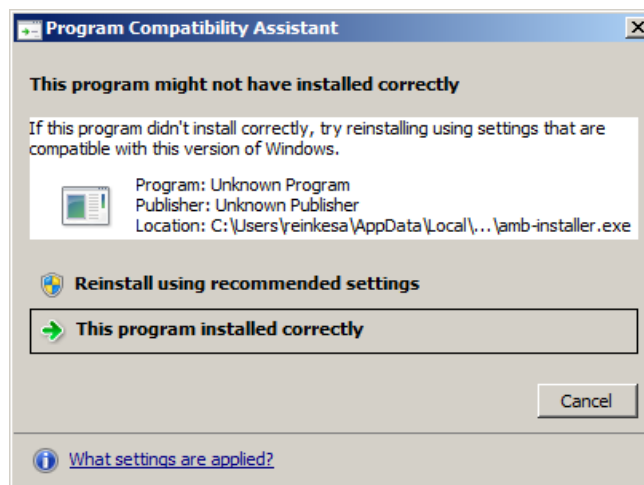
If so, simply click on "This program installed correctly."

File Execution

On your desktop, find the new icon labeled, "Amb-OS Interface" and double click on it to run the file. If this is your first installation on the computer, you need to select the destination folder where the audio files are to be transferred. On your first installation, this window pops up automatically, but when upgrading to a another version, the Amb-OS User Interface takes the previous settings and assumes you want to keep those settings. This only has to be entered once, but it can be changed at any time. The "Local dir" is where your audio files are to be transferred from the AMR-100 receiver. It can be any directory your automation system requires including networked computers.
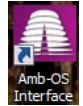
Local dir

Press "OK" in the dialog box "Local folder needed"
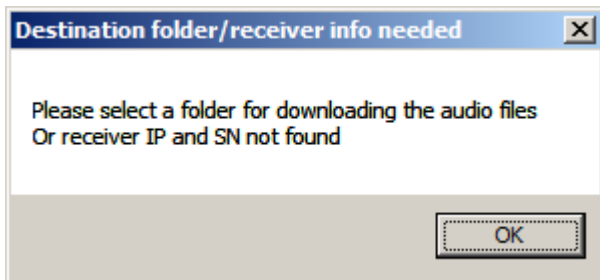
Select the folder you want to use and press "OK" to save that setting. You may select a folder on a different computer if it is connected to the same network. This is particularly useful when transferring files to your automation system. You can change this setting by clicking on the Destination dir button on the main Amb-OS User Interface scene.

After selecting a directory, the System info box will open and you will enter your AMR-100 Receiver's IP address and serial number.
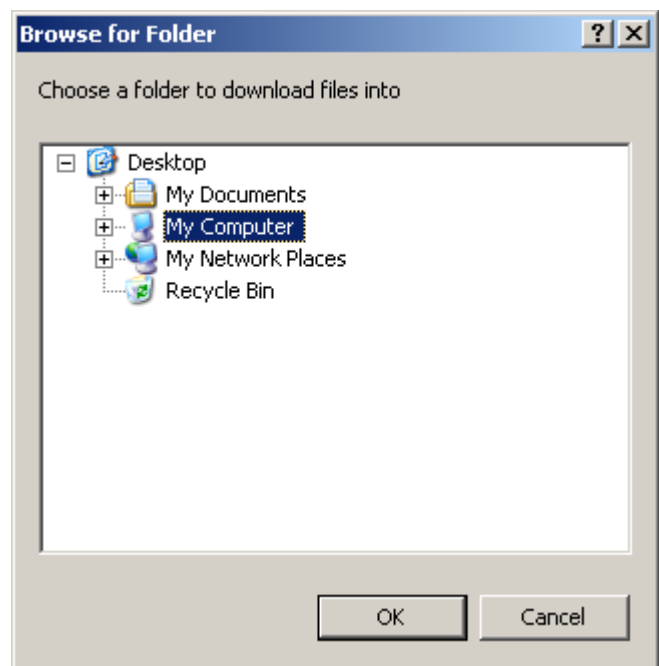
NOTE
Because there is no provision to create a directory, you must choose an existing directory or create the new one before you do the installation.

System Info

The IP Address and serial number can be obtained from the front panel of your receiver. To retrieve that information from your AMR-100 receiver, on the front panel, press <ENTER> once and you will see the following display. Your "Serial No:" and "IP Addr:" will probably be different. This entry shows an IP Address set manually rather than by DHCP.

```
Setup  Date

Firmware:  1.87
Serial No: 2001000
IP Addr:   10.100.1.100
Receiver Utilities
```

However, if "IP Addr:" was set to "DHCP," the IP Address is set automatically and you will have to go into the "IP Addr:" menu to get that address. From the main screen on the front panel of your AMR-100, press <ENTER> and then press the <DOWN Arrow> until the "IP Addr:" line is highlighted.

```
Setup  Date

 Firmware:  1.87
 Serial No: 2001000
 IP Addr:   DHCP
 Receiver Utilities
```
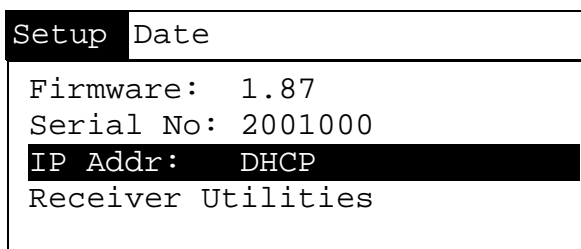
Press ENTER and you will see the following screen with your assigned IP Address.

```
Setup  Date

 MAC:       xxxxxxxxxxxxxx
 Alarm:     #6
 DHCP:      Yes
 IP Addr: 192.168.1.100
```
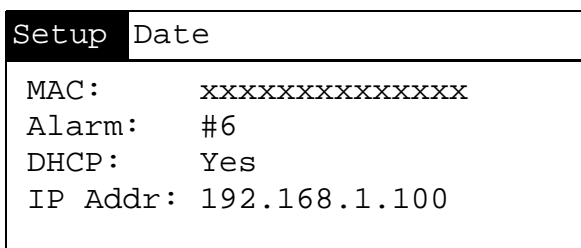
Record these numbers and enter them into the receiver information dialog box.

System Information

Receiver IP address `192.168.1.100`

Receiver serial number `2001000`

Program Update Option

System Information

Receiver IP address `192.168.1.100`

Receiver serial number `2001000`

When a program update is available
⦿ Install it ○ Ask me first
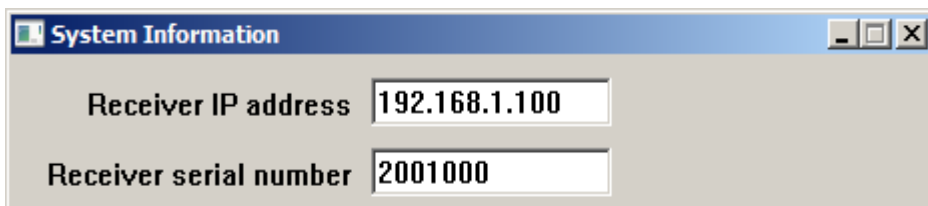
When updates come through the AMR-100, they can either be installed automatically or the Amb-OS User Interface will alert you to the new version and allow you to update it when you want. "Install it" automatically updates the Amb-OS User Interface when they are available (preferred). "Ask me first" allows you to install the updates when you want. If you chose to manually install an update, the program could stop working. It is better to have updates installed automatically. However, as long as you approve an update, the program will continue to function.

Output format

This allows you to select the file format (MP2 or WAV) you want to use when you transfer a file.

mp2 – This leaves the file in its native format (MP2 and 48K encoding) and just transfers the file. You can specify a different name (see the Renaming Files section). With the MP2 format, you have choose how to use or manipulate the Cart chunk data. Some automation systems require that option, for example, the Audio Vault® system may need to have that options selected in the Cart chunk section. You can also change the file extension, but you cannot change the Output channels with the mp2 format selected.
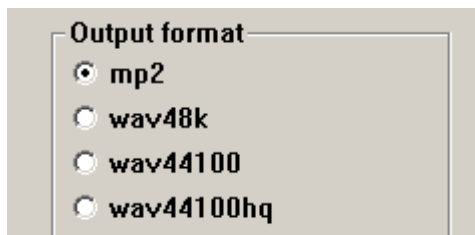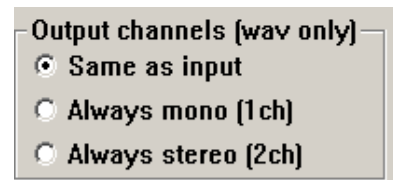
wav48K – This leaves the file in its native 48K encoding, but converts it to a WAV file. When converting to a WAV format, you can specify whether to keep the format of the original file (stereo or mono) or you can force the file to be always mono or always stereo regardless of what the original format is. See the Output channels section. You can also change how the Cart chunk data is used or manipulated.

wav44100 – This converts the file to a WAV file and encodes it at 44100. This is a faster conversion. It also allows you to change the output channels, but the only option you have for the cartchunk data is whether to keep it or clear it.

wav44100hq – This also converts the MP2 file to WAV, but it takes longer due the calculations done during on the conversion. You can also change the output channels and you can only keep or clear the cartchunk data.

Output channels

This allows you to force the file to either mono or stereo, but only if you have selected to convert the file to a WAV format. ***If you keep the file in its native MP2 format, you cannot change the output channels***. Any of the WAV conversions will open the output channel options. The default is to keep the file in its original format. You can force the file to be always mono (1ch) or always stereo (2ch).
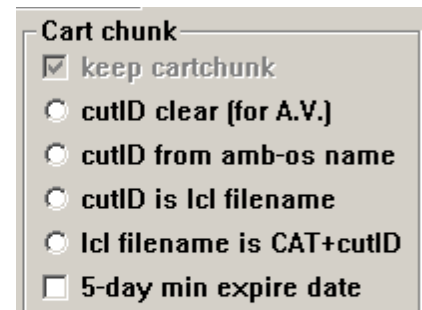
Cart Chunk

This allows you to keep the cartchunk information in the file, use it for naming or to clear it. If the Output format is MP2 or wav48k, you have the option to use the cartchunk data. The Audio Vault® (for A.V.) automation system sometimes needs to have the cartchunk cutID cleared. Checking the "clear cut ID (for A.V.)" will clear the cut ID field in the cartchunk data, but the rest of the cartchunk data remains in the file. The options are as follows.

> **cutID clear (for A.V.)** clears the Cut ID field in the cartchunk data. Some Audio Vault® systems need this option selected.
> **cutID is lcl filename** uses the Cut ID field as the file name when the program is transferred from the AMR-100 to your local directory.
> **cutID from amb-os name** uses the Amb-OS file four letter name as the file name when the program is transferred from AMR-100 to your local directory. The file names in the Amb-OS system use four letters to designate the ministry (FOTF = Focus on the Family) and then a four letter designation of the program (FOF5 = Focus on the Family daily program). The four letter program designation is used as the file name. For a full discussion on file names, see File Names section in the Amb-OS Appendix. This option does not change the cartchunk data, because the Amb-OS system does this automatically.
> **CutID is lcl filename** makes the cut ID in cartchunk data the name chosen in the Rename files section for that file.
> **Lcl filename is CAT+cutID** uses the local filename you create in the Rename files section to create the category and cutid in the cartchunk data. The first three letters of the filename will be put in the category field, and the rest will be put in the cutid field. For Example, a local name of PGM92132 will put "PGM" in the category field and "92132" in the cut id field. When selecting this option, a note appears on the Renaming files page to remind you this option was selected. If you use this option, we recommend you first enter the categories in the Rename files page, and then come back to the cart chunk section in the system info page and select this option.

> **5-day min expire date** prevents files from being deleted until they are at least five days past their air date.

When selecting either 44100 conversion, you only have the option to clear the cartchunk data (default – not checked) or keep the cartchunk data by the checking the "keep cartchunk" box. If you leave the box unchecked, the cartchunk data is removed when the file is transferred and converted to 44100. When the box is checked, the cartchunk data is preserved in the file.

Miscellaneous Functions

Verify MP2 Files

To aid in troubleshooting, this option checks the frames in the MP2 file after transferring it from the receiver. Normally, a the file transfer should be error free, but if you are experiencing an issue, you can have the Amb-OS User Interface check the file after transferring it. Once the problem has been identified and repaired, you can clear the box.

The verify takes more time when transferring, but if that is not an issue, it can be left checked. By checking the verify option, a transfer could take three times longer, because if a file has a problem, it will attempt to fix it three times. If it is still not fixed after the third attempt, the file is still transferred in order to have a file with a glitch rather than no file at all.

NOTE

Typically, you leave the "Verify mp2 transfer" unchecked unless you need to troubleshoot a file.

This option can be used regardless of what format you chose for the transfer (MP2 or WAV), because it checks the file as it reads from the AMR-100.

Insert fmt chunk in mp2

This is only available when using the an mp2 format. This inserts the "bext," "mext," and "fmt" chunks in to the cartchunk data fields. Some automation systems import this information instead of converting the file to WAV. This makes the MP2 file compatible with the BWF (Broadcast Wave Format) file. However, when using this option, you may have to specify the WAV extension in the Special file extension option.

Normalize to __%

If you convert the file to any of the WAV formats, you can either increase or decrease the overall volume from 10% of dBfs to 100% of dBfs. The files on the AMR-100 are sent with the volume normalized at -6 dBfs or 50% of full volume.

Prepend silence

If you convert the program to WAV and if you want a half second (500 ms) of silence before the program, check this option.

Special file extension

Special file extension: [   ] (blank for mp2 or wav)

If the Special file extension box is left blank, the default extension of the file will be used (*filename.MP2* or *filename.WAV*). However, you can change the extension of the file when it is transferred. Some automation systems want a specific extension to the file to ingest it. If your automation system wants an extension like AFE, you can put AFE in the output extension box.

Special file extension: [AFE   ] (blank for mp2 or wav)

By putting in "AFE" in the box, any file transferred will be *filename.AFE* regardless of the file type transferred. If you leave the file as MP2, it will still be named *filename.AFE* and if you have picked any of the WAV conversions, the file will still have the "AFE" extension (*filename.AFE*).

Automation systems using a BWF format (Broadcast Wave Format), need to have the WAV extension, because a BWF format is an MP2 format with WAV data at the beginning of the file so it needs to be converted to an MP2 file and have WAV extension. Normally, when converting or transferring an MP2 file, the Amb-OS User Interface makes the extension MP2. The BWF specification needs to have the WAV extension, so you would put WAV in the output extension box. The BWF format also needs some additional cart chunk information inserted (see the Insert fmt chunk in mp2 section).

Temp folder

When doing a conversion from MP2 to WAV, you can specify the location of the temporary folder that holds the files during the conversion process. Pick a location that has several gigabytes of space, so there is enough room to do the conversion. If the drive does not have the space, the conversion will not be successful and your program may not be transferred.

Temp folder: [C:\TEMP\   ] [Browse]

[Save] [Cancel]

Click on the "Browse" button to open the dialog box to pick a directory.

WARNING
If you pick a network drive, be sure the computer is always on and the drive will always be available to avoid the temp directory being unavailable and preventing the file from transferring.

Save

After making all your selections, be sure to hit "Save." "Cancel" will exit and ignore any changes. Either option will exit the setup and start the Amb-OS User Interface.

[Save] [Cancel]

OPERATION

Summary

This section covers the screen shots and gives a brief description of each function. As of this revision of software, only one receiver can be controlled by the Amb-OS User Interface software on a single PC. If you have two receivers, you need to have an individual computer controlling an individual receiver. Therefore, for each receiver you have, you need one PC with one instance of Amb-OS User Interface software running to control one receiver.

The Amb-OS User Interface will transfer files from the AMR-100 or create a playlist to play audio out of the audio ports. The transfers can be done automatically or at a specific time to your destination directory.

WARNING
File transfers cannot happen unless the Amb-OS Utility software is running on the PC.

A playlist runs on the AMR-100 receiver directly and does not need the Amb-OS User Interface running.

This shows the opening screen of the Amb-OS User interface. Each section will be discussed individually.

```
AMR-100 User Interface                                                    _ □ X
System info   Rename files   Playlist editor   Files/Transfers   Tools   Help
┌──────────────────┐
│ Destination dir  │  C:\Users\reinkesa\My Documents
└──────────────────┘
               Transfer queue              ┌─────────┐  □ Enable misc transfers        ┌──────┐
                                           │ Refresh │                                 │ Exit │
BTTB_BTB5_08-13-09_01-01.MP2 35M BTTB-Daily.wav  └─────────┘     1 Files in queue        └──────┘
                                                                                     Next refresh
                                                        35157 Kb in queue
                                                                                        9:52:10
                                                  BTTB_BTB5_08-13-09_01-01.MP2

                                                     15094 kb of 35157

                                                        mp2-wav frames

               Timed transfers                           Activity log               09:45:59
08/13 11:00 BTTB_BTB5_08-14-09_01-01.MP2 BTTB-Daily.wav  09:45:58 REPL BTTB_BTB5_08-13-09_01-01.MP2
                                                         09:45:58 past BTTB_BTB5_08-12-09_01-01.MP2 too late
                                                         09:45:58 past BTTB_BTB5_08-11-09_01-01.MP2 too late
                                                         09:45:58 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                         09:44:53 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                         09:44:08 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                         09:43:29 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                         09:43:28 (8/13) began monitoring (015m)

545 files on rcvr
BTTB_BTB5_08-13-09_01-01.MP2 -> BTTB-Daily.wav
BTTB_BTB5_08-13-09_01-01.MP2 -- download
UPLOAD BTTB_BTB5_08-13-09_01-01.MP2
DATE: 7/28/2009 15:05:00
CONTENT-LENGTH: 36001052
```

File Transfer Methods

Because stations use different naming conventions, the Amb-OS User Interface has different methods of transferring files. It transfers files immediately after they are received (miscellaneous transfers) or at a specific time and day (timed transfers). Miscellaneous transfers have no time in the Xfer time [day] column in the rename files window. Without the "Enable misc transfers" box checked, without a timed transfer, miscellaneous transfers have to be done manually. Timed transfers have a time in the Xfer time [day] column.

Two windows in the main screen show the method files will be transferred. The Transfer queue window shows the miscellaneous transfers and the timed transfers window shows the timed transfers.

Miscellaneous Transfers

The miscellaneous transfers works well if you have unique file names for every program. A program for Monday has the date or some other indication that it is for Monday, then an automatic transfer will work. If you keep the same name for a program every day, then the miscellaneous transfer could overwrite the current day's program if the next day's program arrives before the current day's program airs. Timed transfers avoid that problem.

Automatic transfers can be enabled or disabled with "Enable misc transfers" box. If the "Enable misc transfers" box is not checked, then the files will be listed in the Transfer queue window, but they will have to be transferred manually through the files/transfer window. With the "Enable misc transfers" box checked, files will be transferred automatically immediately after they have been successfully received.

Timed Transfers

Timed transfers work well when you use the same name every day for a program. The new file will not be transferred until the time specified in the Xfer time [day] column in the rename files window. Timed transfers prevent a new file from overwriting the current file as long as the time is after the current file plays. If a file does not arrive until after the time in the Xfer time [day] column, it will transfer immediately after it has been received unless it arrives 24 hours after the scheduled transfer time.
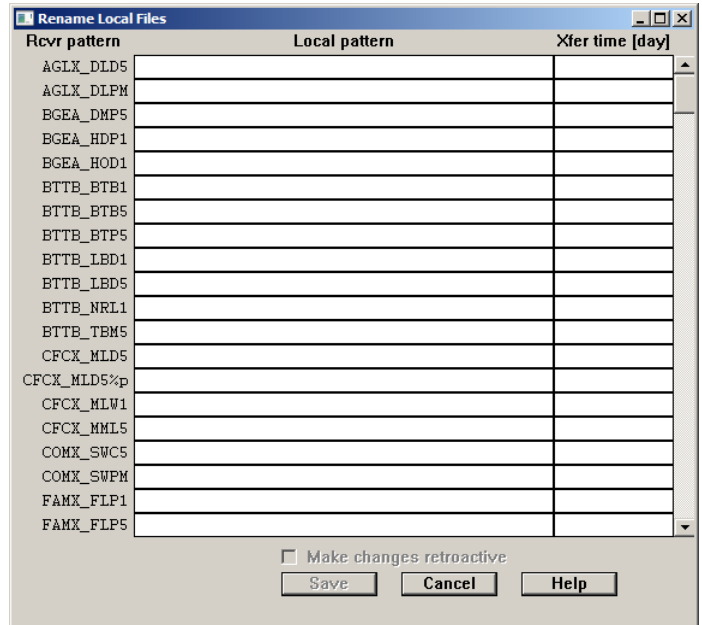
Manual Transfers

Without a time specified in the Xfer time [day] column in the rename files window and without the "Enable misc transfers" box checked a file will not be transferred automatically and will have to be done manually. To do a manual transfer, open the Files/transfer window and double click on the file you want to transfer.
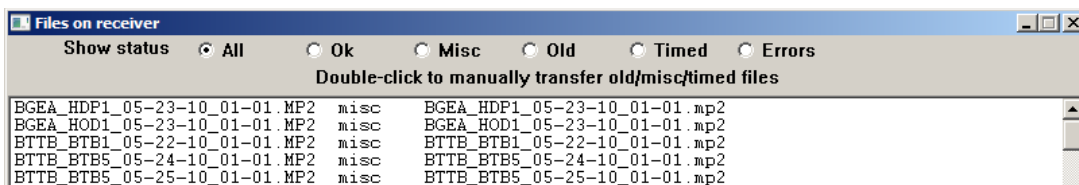
Opening Screen

After you have entered the information for the local directory and the receiver serial number and IP Address (see the Installation section) you can define how you want your receiver to get files to you.

```
AMR-100 User Interface                                               _ □ X

System info  Rename files  Playlist editor  Files/Transfers  Tools  Help

Destination dir   C:\Users\reinkesa\My Documents

        Transfer queue                    Refresh  □ Enable misc transfers          Exit

BTTB_BTB5_08-13-09_01-01.MP2 35M BTTB-Daily.wav       1 Files in queue         Next refresh

                                                     35157 Kb in queue           9:52:10

                                              BTTB_BTB5_08-13-09_01-01.MP2

                                                    15094 kb of 35157

                                                      mp2-wav frames

        Timed transfers                          Activity log           09:45:59

08/13 11:00 BTTB_BTB5_08-14-09_01-01.MP2 BTTB-Daily.wav   09:45:58 REPL BTTB_BTB5_08-13-09_01-01.MP2
                                                          09:45:58 past BTTB_BTB5_08-12-09_01-01.MP2 too late
                                                          09:45:58 past BTTB_BTB5_08-11-09_01-01.MP2 too late
                                                          09:45:58 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                          09:44:53 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                          09:44:08 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                          09:43:29 rcvg SPCL_XTKL_08-16-09_01-01.MP2
                                                          09:43:28 (8/13) began monitoring (015m)

545 files on rcvr
BTTB_BTB5_08-13-09_01-01.MP2 -> BTTB-Daily.wav
BTTB_BTB5_08-13-09_01-01.MP2 -- download
UPLOAD BTTB_BTB5_08-13-09_01-01.MP2
DATE: 7/28/2009 15:05:00
CONTENT-LENGTH: 36001052
```

Menu, Button, Window and Message Explanation

The Amb-OS User Interface has a Top Menu, various buttons, windows and some messages.

The Top Menu
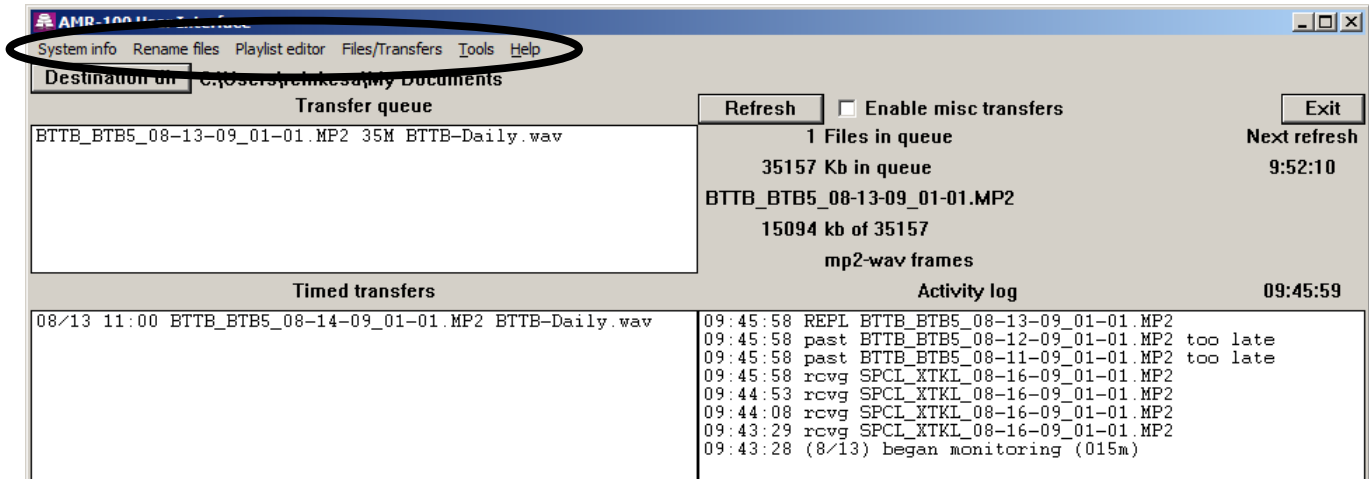
System info: Opens the dialog box to change your receiver settings. If your network administrator changes your IP Address or if your receiver is changed, you will need to change IP address in the Amb-OS User Interface.

Rename files: Opens the File Rename dialog box to allow you to change the name of the file when transferring it from the receiver to your computer. The time you want the files to be transferred is also entered there. If no name is selected, it will transfer the file with the name as it is on the receiver.

Playlist editor: Opens the Playlist Editor dialog box to define what and when the AMR-100 receiver will playback.

Files/Transfers: Opens a box showing the files on the receiver, how they are transferred (timed or automatically upon reception) and what they will be named. It also gives the option to manually transfer a file.

Tools: Allows you to import and export your individual settings: Receiver IP, local directory, file naming list and transfers and other customized information. It also shows you what programs have been approved for your receiver, whether you want to log the activity information into a file and what files have been received. There is also options to send information back to Amb-OS support personnel, but that should only be used when directed to do so.

Help: This brings up the help window, shows the current version of the Amb-OS User Interface and has links to information on the Internet.

Buttons

Four main buttons are used in the program:

Destination Dir   Refresh   Enable Misc Transfers   Exit
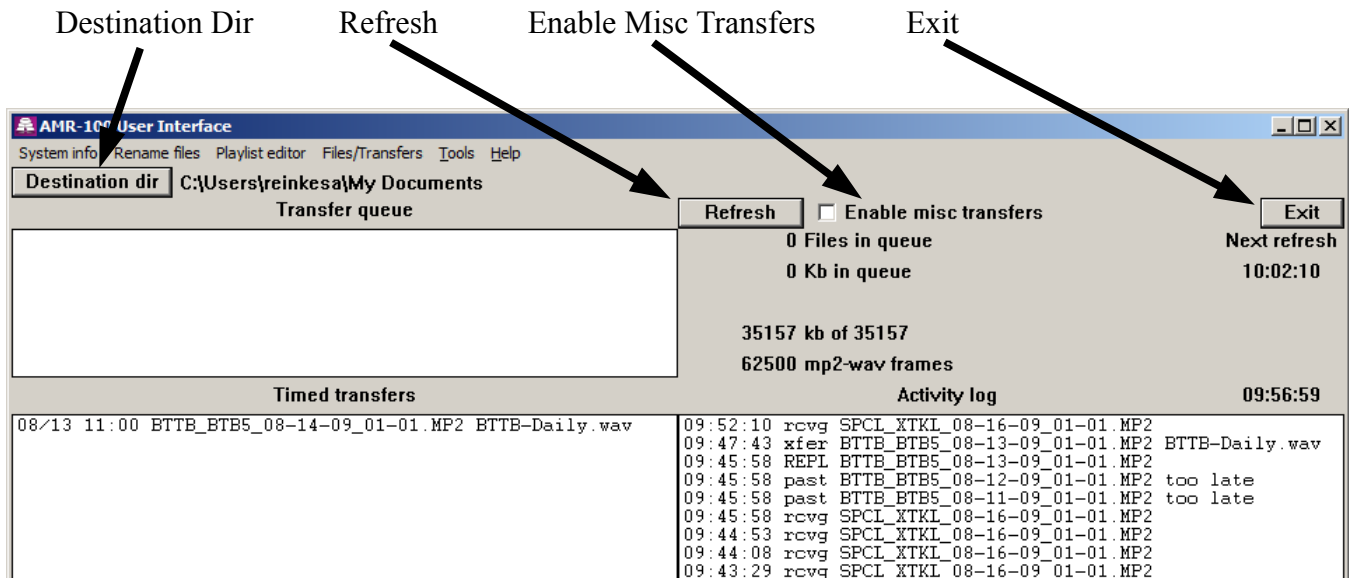
Destination Dir: This allows you to change the directory where files are transferred from the AMR-100.

Refresh: This button forces the Amb-OS User Interface to read the AMR-100 hard disk and update the file list.

Enable misc transfers: When checked, the files in the Transfer queue are automatically transferred. If you do not have a file set to be transferred at a specific time or with a specific name (see Rename files) and this box is clear, the file *will not* be transferred. If you are only going to play files out of the receiver for airing live or recording, you can leave this box unchecked.

WARNING
"Enable misc transfers" has to be checked to transfer a file with no scheduled transfer time or without an entry in a playlist.

Exit: This terminates the program.

Windows

Four windows provide information about programs, transfers and status messages.

Transfer queue   Timed Transfers   Activity Log

Status Messages

Transfer Queue: This window shows all the files that will be transferred as soon as they arrive to the directory specified in the Local Directory setting. These files will only be transferred if the "Enable misc transfers" is checked.

Timed Transfers: This window displays the transfers that will happen at a specific time.

Activity log: This shows the status of the programs on the AMR-100 receiver's hard drive.

Status Message: This gives a summary of internal network and program messages. It's used primarily for debugging issues.

Messages

Total amount of data to transfer   Number of files   Next automated refresh from receiver
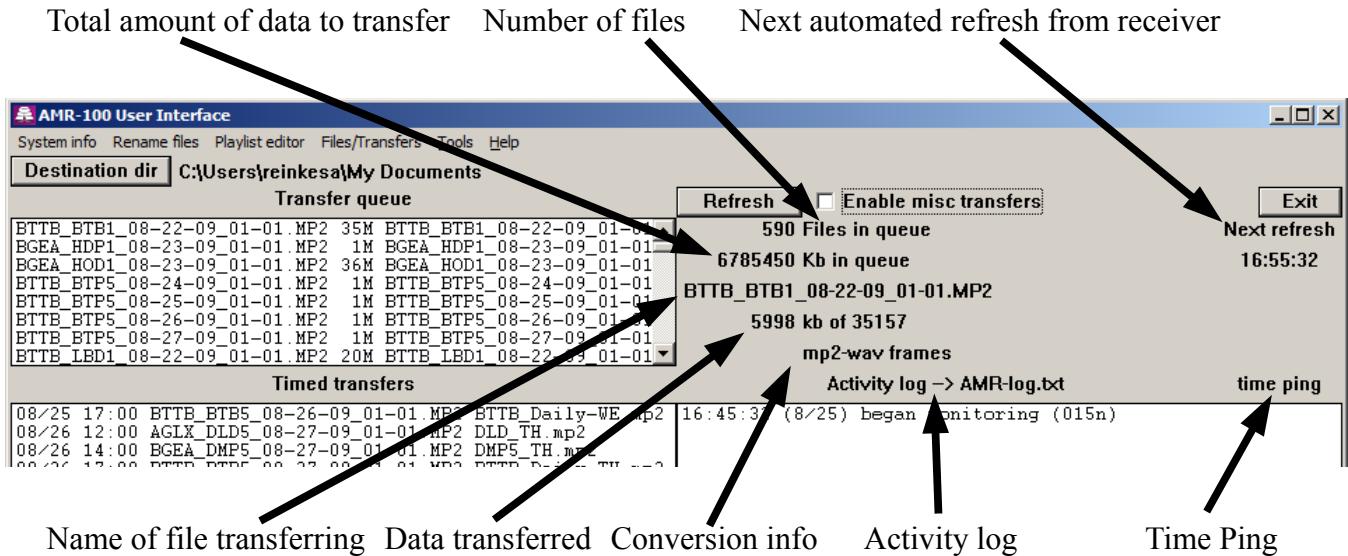
Name of file transferring Data transferred Conversion info Activity log Time Ping

Total amount of data to transfer: This shows how much data needs to be transferred and it includes all of the files that have not been transferred.

Number of Files: This shows the number of files that will be transferred from the receiver.

Next Refresh: This shows the next time the automated refresh will happen to insure that the latest information about file transfers are current and gets the latest file information from the receiver.

Name of file being transferred: This is name of the current file being transferred.

Name of File: If a data transfer is happening, this shows the name of the file being transferred.

Data Transferred of a File: This gives a progress report of the transfer of the current file.

mp2-wav Frames: If you have selected a conversion of a file, this tracks the conversion frames.

Activity Log: This indicates if the activity log is being written to a file on the hard drive. If the message just has "Activity Log" then the activity log is not being written. If a log file has been selected, it will be as shown in the illustration.

Time Ping: This message "Time ping" only appears on initial power up and, after reading the AMR-100 receiver's status, it changes to the time of the receiver. This updates every minute and it only displays the receiver's time (including seconds), but it does not display the changing seconds.

Detailed Descriptions

Receiver Information

This window shows your current configuration and allows you to change the IP address used in the Amb-OS User Interface and the serial number of your receiver. Your serial number does not change unless you replace your AMR-100 receiver.

If your Amb-OS User Interface will not communicate with your AMR-100 receiver, you should verify the IP address and serial number of your receiver. You can verify those numbers by looking at the data on your receiver. The setup section describes how to do this.

You can also verify or change the Program update option, Output format, Output channels, Cart chunk handling Extending the deletion of files to five days, change your customized file extension, whether or not to verify the MP2 file transfer and other miscellaneous settings, inserting the fmt chunk into a file, whether to normalize file output levels, to add silence to a WAV file or to change your temporary file location when doing transfers and conversions.

Rename Files

The files transferred to the receiver from each program provider have specific names that include the date of the file. Because stations use their own names, this utility allows the station to change the name of the file when it is transferred and to schedule a specific time to transfer the file. The transfer times are based on your computer's system time.

The "Rcvr pattern" lists the files by the names used by the Amb-OS system. The first four letters are the ministry name and the next four letters are the program name.

> FOTF_FOF5
>> FOTF = Ministry name (Focus on the Family)
>> FOF5 = Program name (Focus on the family daily)

The entire file name description is in the Program Naming Convention section. The program file names are in the Program Listing section.

The "Local pattern" is the filename you want to name the file to have after it is transferred. Several options can be used to automatically name file with a date or day (see the rename variables section).

WARNING
Do not use a file extension in the local pattern box. If you do not want the default extension, change it in the file output extension option menu.

The "Xfer Time [day]" defines when a file is transferred by both time and a day relative to the air date of the file. If no time is put in the "Xfer time [day]" box, the program can be transferred automatically as a Miscellaneous Transfer or be manually transferred and be renamed with the name entered in the "Local pattern" box and apply any changes to the file specified in the system info section (Output format, Output channels, file output extension or any cart chunk options).

If the same name is used for a program, timed transfers prevent the current day's program from being overwritten. The timed transfer only transfers a file on a specific day and time to protect the current day's program and still transfers the next day's program. For example, if the next day's program comes in at 2:00 PM and you air the current day's program at 4:00 PM, enter in a transfer time of 17:00:00 (5:00 PM) so the next day's program will not overwrite the current day's program.

Files are transferred when the file has been completely received so no partial files get transferred. If a file arrives less than 24 hours after the scheduled transfer time, it will be transferred as soon as it arrives.

WARNING
You must press "Save" after making any changes. If you just close the box, you will lose any changes you made.

Filename is CAT+cutID Message
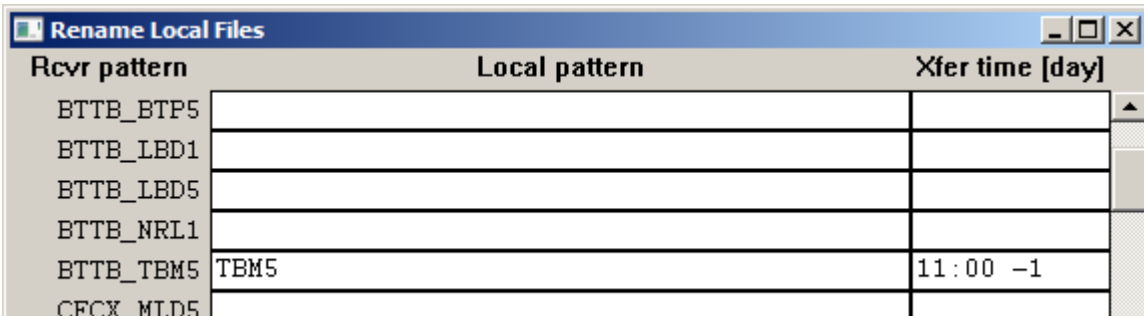
When this option was checked in the [System info](), the message "First 3 letters of lcl pattern will be used cartchunk Category" is displayed at the bottom of the screen. This is only displayed if that option is checked.
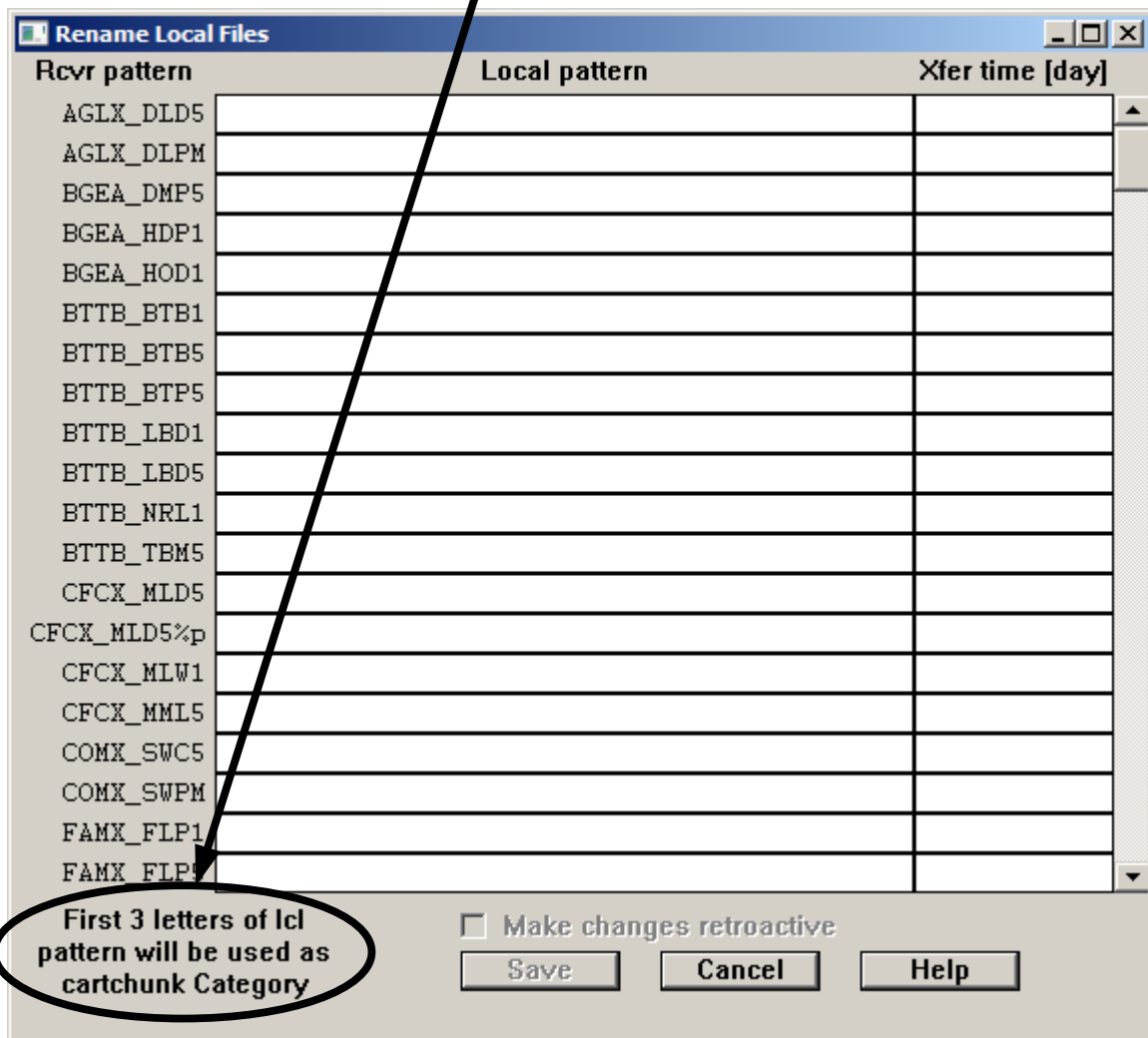
Thus in the local pattern line, FOF1225 would have "FOF" in the category field and "1225" in the cut ID field of the cart chunk data of the file after it is transferred from the AMR-100. The filename on the local computer would be FOF1225.

Local Pattern

To change the name of a file, click in the box next to the file you want to change and enter the name you want the file to have when it is transferred. If you enter "TBM5" in the local pattern, the program listed to the left of that will have the name "TBM5.MP2." If you do not enter a name, the file will be transferred with the same name it has on the receiver.

The "Xfer time [day]" dictates when a file is transferred. The time in 24 hour format (00:00 – 23:59). Entering 11:00 would transfer the file at 11 AM local PC time and optional day offset (how many days before or after the air date) can be entered after the time. 11:00 -1 would transfer the file at 11:00 AM local PC time, but transfer it one day before the air date. If the "Xfer time [day]" is left blank, it will transfer automatically as soon as it is received as long as the "Enable misc transfer" is checked. If no day is specified then all transfers before 12:00 PM (noon) local PC time will transfer the program on its air date. Any times after 12:00 PM (noon) local PC time will transfer the next day's program. This is the "After 12P (noon) rule."

WARNING
If you do not have your receiver attached to the Internet and data packets are missed, the missing packets cannot be received from the uplink server and the file will not transfer. You will have to contact Amb-OS (877-262-6728) to have it retransmitted.

Options

Several variables are included to add different pieces of information to the file name like the day of the program (Mo, Tu, We, etc.) and even send files to a different directory than the one specified in the local directory.

Directory changes:

If you put a directory name in front of the name of you entered for a file in the "Local pattern."
    \BTTB\Bible-Minute will put the program in a sub-directory under the local directory called "BTTB."
        The directory must exist or the Amb-OS User Interface will not be able to transfer it.

If you put in a full path name, the local directory entry in the Destination directory window will be ignored.
    C:\AMB-OS\BTTB\Bible-Minute will put the program in the BTTB directory under the AMB-OS
        directory in the root directory of the hard drive on computer running the Amb-OS User Interface.
    \\Automation\AMBOS\BTTB\Bible-Minute would put the file on a computer named "Automation"
        under the AMBOS directory on its hard drive.

Rename Variables:

The variables used in renaming files allow customized file names to correspond to days, dates or parts. The variables can go anywhere in the local pattern (before, after and in the middle). The options are listed below.

Date options

%m = the month of air date in MM format. 06 will be added to the file name.

%d = the day of the air date in DD format. 08 will be added to the file name.

%y = the year of the air date in YY format. 09 will be added to the file name.

%w = the day of the week in two letter format (MO, TU, etc.) would be added to the file name.

%3 = the day of the week in three letter format (Mon, TUE, etc.) would be added to the file name.

%n = the numerical day of the week beginning with 1. (Sun. = 1, Mon. = 2... Sat. = 7) would be added to the file name.

%z = the numerical day of the week beginning with 0. (Sun. = 0, Mon. = 1, Tue. = 2... Sat. = 6) would be added to the file name.

%j = the Julian date or the number of the day of the year. An air date of 01-01-09 would add 001 to the file and an air date of 12-31-09 would add 365 (366 on a leap year) the file name.

Multiple Part Options

%p = the part number of the program (01, 02, 03, etc.). The second part of a three part program would have 02 added to the filename. If the file has only one part, nothing will be added to the file name. Not using the %p variable in a multi-part program will cause all the parts to be combined into one file during the transfer process.

%1 = the part number of the program (as %p above), but uses 1, 2, 3, etc. and not 01, 02, 03, etc.

NOTE
If %p or %1 is not used in the name, a multiple part file will be transferred as a single file.

You can have multiple variables for the same file and and can have separators between them.
%m-%d_%p would have 06-07_01 in the name of the file.

If you have changed the output format (WAV) or have a custom extension, then the file will have that extension on the file when it is transferred.

WARNING
Do not use a file extension in the local pattern box. If you do not want the default extension, change it in the file output extension option menu.

Examples

FOTF_FOF5 with an air date of 05-06-09:
    FOFD would be transferred as FOFD.MP2 every day and overwrite the previous day's program.
    FOFD%m%d would be transferred as FOFD0506.MP2
    FOFD%3 would be transferred as FOFDWED.MP2

FOTF_ODY1%p with an air date of 05-02-09
    ODY_W-%p – Part one of the Odyssey program would be Ody_W-01, part two would be Ody_W-02
    ODY_W-%m-%d_%1 – Part three of the Odyssey program would be ODY_W-05-02_3
    ODY_W-%m-%d – The three parts of the Odyssey program would be transferred as one program with the name ODY_W-05-02, because no %p or %1 variable was entered to name the individual parts.

Name from the Amb-OS file name
    FOTF_ODY1%p with an air date of 05-03-09
        FOTF_ODY101 for part one, FOTF_ODY102 for part two and so forth.
    FOTF_ODY1%p-%d with an air date of 05-03-09
        FOTF_ODY101-SA for part one, FOTF_ODY102-SA for part two and so forth.

If "CutID is lcl filename" is checked in the System info then the filename you enter is used as the cartchunk cutID. If the option "lcl filename is CAT+cutID" is checked in the system info, then the first three characters of what you put in as the filename is put into the cartchunk data as the category and the remaining characters are put in as the cut ID.

Xfer Time [day]

Enter a time and, optionally, a day offset to determine when you want the file to be transferred. If this field is left blank, the file will be transferred automatically as part of the Miscellaneous Transfers if the "Enable misc transfers" box is checked. The time should be entered as HH:MM in 24 hour format. Use 03:00 for 3:00 AM and 15:00 for 3:00 PM. 00:00 is the morning of the current day. The day offset is the number of days before (-1, -2) or after (+1 or 1, +2) the air date of the program to transfer. See the day offset section.

> # WARNING
> **When putting in a day offset, you cannot put in the seconds. For example, 13:15:30 -1 will not work, but 13:15 -1 will work.**

If a transfer time is entered with no day offset specified, it will follow the "After 12 PM (noon)" rule. Transfers scheduled before 12:00 PM (noon) transfer the same day program and transfers scheduled on or after 12:00 PM (noon) will transfer the next day's program.

If you schedule a transfer before the file has arrived, it will transfer after it has arrived. A program that normally arrives at 11:00 PM before the day it airs, and you schedule a transfer for the next day's program at 8:00 AM (08:00 -1), the program will not transfer at 8:00 AM, but at 11:00 PM. A program for 05-06-09 arrives at 11:00 PM on 05-05-09 was scheduled at 8:00 AM on 05-05-09. The file will not transfer at 8:00 AM, because it has not arrived. It will transfer at 11:00 PM after it arrived. To help in setting transfer times, please see the file transmission time section.

> # WARNING
> **Schedule file transfers after the files are received to avoid unpredictable results.**

Transfer times protect files from being overwritten that have the same local file name each day. If you use BTTB as the Back to the Bible name for every day, if you do not put in a transfer time, you could overwrite today's program with tomorrow's program. If your last airing of BTTB is at 3:00 PM local time, you want to schedule your transfer of the next day's program after 3:30 PM (15:30) to make sure it does not overwrite today's program. This corresponds to recording a program from satellite at the same time each day and over-writing the local file with the next day's program.

Day offset description for transfers

Day offset list
> -2 = two days before the current day
> -1 = the day before the current day (prefeed)
> 0 = current day
> 1 or +1 = the day after the current day
> 2 or +2 = 2 days after the current day

WARNING
Day offsets will not work with the seconds in the time. You must use only HH:MM for the time.

Examples of day offset

Times with a day offset specified – the file will transfer based on the offset and not follow the "after 12 PM (noon)" rule of transferring one day in advance.
> 06:00 -1 = Transfers a day before the air date
> 15:00 0 = Transfers the same day's file (the offset "0" means the current day's program).

Times with no day offset specified and showing the "after 12 PM (noon)" rule is applied.
> 06:00 = Transfers the same day's program (same as using 0 as the day offset)
> 15:00 = Transfers the next day's program (same as using -1 as the day offset)

File transmission time vs. queue time

When considering the time you want to transfer a program, you need to be aware of the individual program's transmission time vs. the queue time. The queue time listed in the table in the appendix has the time the program is scheduled to be sent in Eastern Time.

WARNING
The queue time is not the transmission time. The queue time is only when the file is scheduled to be sent. The transmission time may be much later.

Due to the number of files being transmitted every day, the precise time of transmission can be delayed. Thus, Amb-OS lists programs when they are queued to be transmitted. Since some programs take longer than others and since the programs are sent sequentially, not all programs are delivered at their queue time. Typically, if you add at least an hour to the queue time, you can estimate the file's arrival time. If you experience files being missed, checked the actual arrival time in the Activity Log window and adjust your time accordingly.

The table at the end of this manual lists programs with their queue time. The most current table is online at http://www.focussat.net/ambos/programs.html.

Examples of Rename files

This section assumes that the <u>output format</u> will be MP2 and not converted to a WAV file. If you have changed the format to WAV, everything will be the same but the files will be ".WAV" and not ".MP2" when they are transferred. If you have changed the <u>file extension</u>, then it will have that as the extension and not ".MP2" or ".WAV."

Rcvr pattern	Local pattern	Xfer time [day]
AGLX_DLD5	x	
BGEA_DMPM	x	
BGEA_DMPM%p	DMPM%p%w	08:00
BGEA_HDP1	x	
BGEA_HOD1	x	
BTTB_BTB1	BTTB-Wknd	
BTTB_BTB5	BTTB-Daily	20:00
BTTB_BTP5	BTTB-Prm%w	21:00 -1
BTTB_LBD1	x	
BTTB_LBD5	x	
BTTB_TBM5	SFEATURES\TBM	08:00 -1
CFCX_MLD5	x	

The screen shot above illustrates the following actions:

AGLX_DLD5 and BGEA_BMPM will not be transferred, because of the "x" in the local pattern.

BGEA_DMPM%p (a multiple part file) will be transferred on its air date, because no day offset is entered, so it follows the "<u>after 12 PM (noon)</u>" rule. "%p" puts in the part number and "w" puts in the day of the week. It will be named "DMPM01mo.MP2" for the first part and "DMPM02mo.MP2" for the second part.

BGEA_DMPM%p and BGEA_HOD1 will not be transferred.

BTTB_BTB1 will be transferred as soon as it is complete with the name "BTTB-Wknd.MP2"and listed in the <u>Transfer Queue</u> window, because no time was specified.

BTTB_BTB5 will be transferred as "BTTB-Daily.MP2" and transferred at 8:00 PM local computer time and it will transfer that the next day's file, because the time is after 12:00 PM with no day offset entered. It will follow the "<u>after 12 PM (noon)</u>" rule.

BTTB_BTP5 (Back to the Bible Promo) will be transferred as "BTTB-PRMTU.MP2" at 9:00 PM Local PC time and it will transfer the next day's promo. The "TU" assumes that that next day is a Tuesday. The -1 following the time in the <u>Xfer time [day]</u> window, is unnecessary, because it is scheduled after 12:00 PM and it would follow the "<u>after 12 PM (noon)</u>" rule. However, it may help to avoid confusion when looking at the list.

BTTB_TBM5 (The Bible Minute) will be transferred as "TBM.MP2" and it will also be put in the "SFEATURE" directory under the directory specified in the <u>transfer directory</u>.

CFCX_MLD5 will not transfer.

Multiple Part Files

A multi-part file has a %p after the name indicating it has multiple parts. Using the %p or %1 variable you put the part number in your local name. For example, "ODY1-01" or "ODY1-02."

Rename Local Files		
Rcvr pattern	**Local pattern**	**Xfer time [day]**
FOTF_ODY1%p	ODY1_%p-%w	
FOTF_ODY5		
FOTF_ODY5%p	ODY5-%w	

The first and third files listed have multiple parts. The first program would be transferred as three parts as soon as it arrived with the first part named "ODY1_01-SA.MP2" if you did not change the format from MP2 to WAV in the transfer default. The second part would be "ODY1_02-SA.MP2."

The third file would be transferred with all the parts merged together as a single file with the name "ODY5-MO.MP2." This assumes that no conversion was done and the file date was a Monday.

Making changes retroactive

When you make any changes, you have the option to "Make changes retroactive."

GTYX_GTP5		
GTYX_GTPW	Grace_To_You_Daily%w	14:00 -1
GTYX_GTY1		
GTYX_GTY5		

First 3 letters of lcl pattern will be used as cartchunk Category
☑ Make changes retroactive
[Save] [Cancel] [Help]

My checking this box, any changes you have made are applied to files that have missed their transfer time and it treats them as new and transfers them. If you leave the box unchecked, the changes will be made to files that come after you have saved the changes.

Saving changes

After finishing your changes, you must click on "Save" to have the changes applied. Clicking on "Cancel" will cause your changes to be discarded and the original settings will be preserved.

GTYX_GTY5		

First 3 letters of lcl pattern will be used as cartchunk Category
☐ Make changes retroactive
[Save] [Cancel] [Help]

Save: Saves the changes you have made.
Cancel: Ignores the changes you made and closes the window
Help: Shows you the options for renaming and transferring.

Playlist Editor

General Description

This tool creates a "playlist" for the AMR-100 receiver and allows files to played out of the receiver like a live program. It also allows relay closures to be associated with the playback of a file.

When considering the time you want to transfer a program, you need to be aware of the individual program's transmission time vs. the queue time. The queue time listed in the table in the appendix has the time the program is scheduled to be sent in Eastern Time.

WARNING
The queue time is not the transmission time. The queue time is only when the file is scheduled to be sent. The transmission time may be much later.

Due to the number of files being transmitted every day, the precise time of transmission can be delayed. Thus, Amb-OS lists programs when they are queued to be transmitted. Since some programs take longer than others and since the programs are sent sequentially, not all programs are delivered at their queue time. Typically, if you add at least an hour to the queue time, you can estimate the file's arrival time. If you experience files being missed, checked the actual arrival time in the Activity Log window and adjust your time accordingly.

The table at the end of this manual lists programs with their queue time. The most current table is online at http://www.focussat.net/ambos/programs.html.

Triggers

At this time, triggers cannot be entered into the playlist by the Amb-OS User Interface. If you're not using triggers, then the Amb-OS User Interface will be all you need to build your playlist. If you need to use triggers, you can create a basic playlist with the Amb-OS User Interface, write the playlist to a local drive and then edit the playlist with the "Standalone Playlist Modifier." This and the playlist manual is available on the Amb-OS support website (http://www.amd-os.com/support.html).

The playlist editor uses the settings for the Amb-OS User Interface for your receiver and automatically pulls in the playlist you saved to AMR-100 so you can edit it and save it back to the AMR-100.

WARNING
Once you have used the playlist editor, you should not bring the playlist back into the Amb-OS User Interface, because it will remove the changes you made with the playlist editor.

A complete description of the playlist is available in the playlist manual. Both the playlist editor and the playlist manual are available at the Amb-OS support web site (http://www.amb-os.com/support.html). Download the "Standalone Playlist Modifier" and the "User Interface (UI) Software playlist manual."

The buttons

The first time the playlist editor opens no files show up in the playlist window, but all the files available on your AMR-100 receiver appear in left window. The files are listed in the "wild card" format with "##-##-##" in the filename in place of a date. The "wild card" files allows files to be played back automatically on the air date of the program. Optionally, you can specify a single date. See the File Names section in the Appendix for a discussion on how files are named.

List individual files: Files can be listed by the actual files on the receiver. That lists the files with their air dates. This can be used to put in a specific file to be played once.
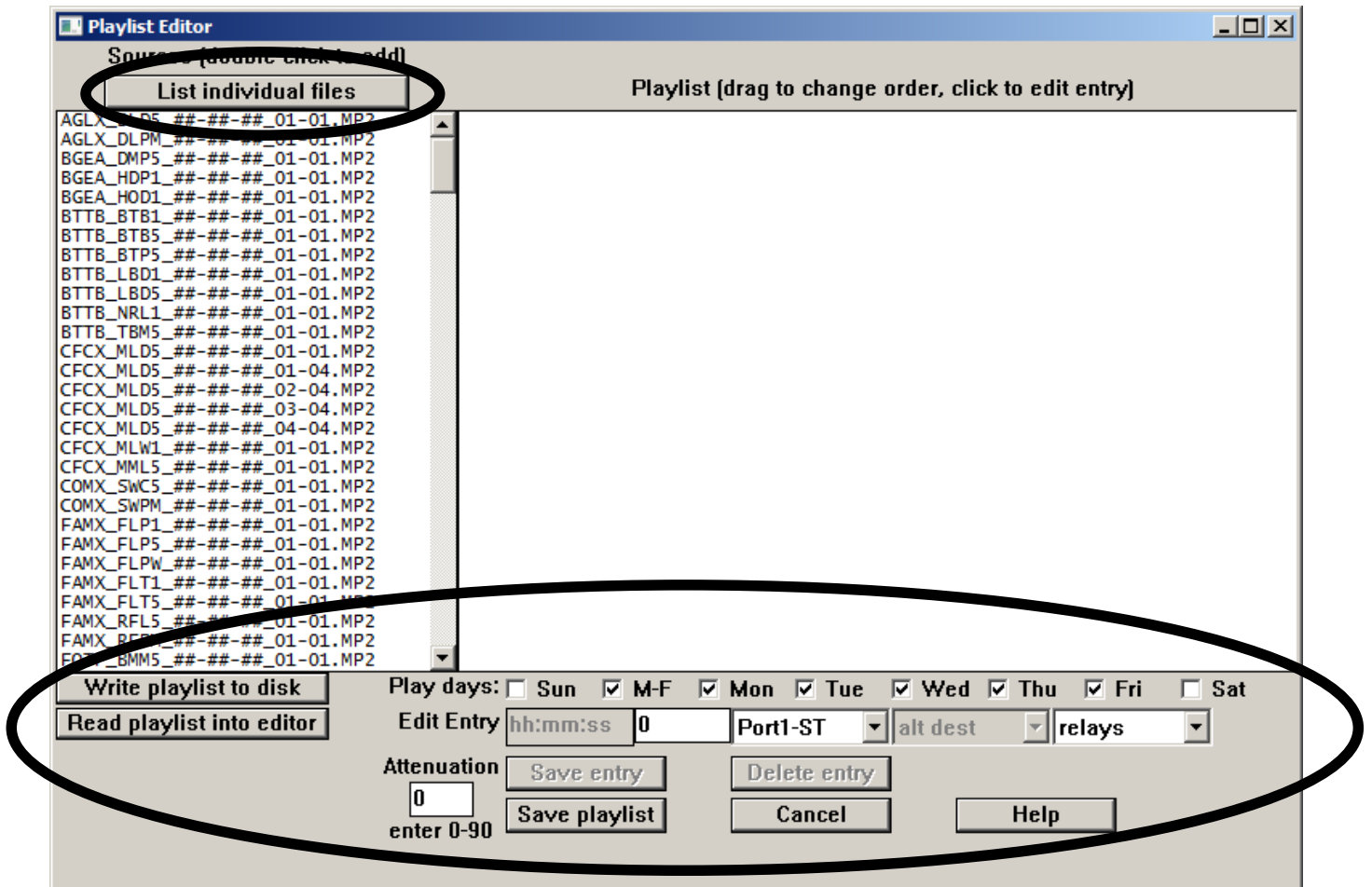
Write playlist to disk: This will save your playlist to a file on a computer for archiving or editing.
Read playlist into editor: This brings a playlist into the editor from a file that was saved to a computer so it can be edited and saved to the AMR-100.
Save entry: After you enter the information for the file you **must** click on this to save the settings.
Delete entry: If you need to remove a feed, highlight it and click on "Delete entry."
Attenuation: This reduces the level of the audio coming out of the audio ports for all programs in your playlist.
Save Playlist: After you are finished, you **must** click on this button to save the playlist to the receiver.
Cancel: If you do not want to save any settings, click on this button.
Help: This brings up a help menu.

Creating a playlist

The basic steps to create a playlist are:

1. Double click on the program you want to play in the file window on the left. This brings the program to the Playlist window on the right.
2. Click on the program in the Playlist window to edit the playback parameters. This is done at the bottom.
3. Change the playback parameters and click on "Save" to save the playlist.

Repeat this steps to add other programs to your playlist.
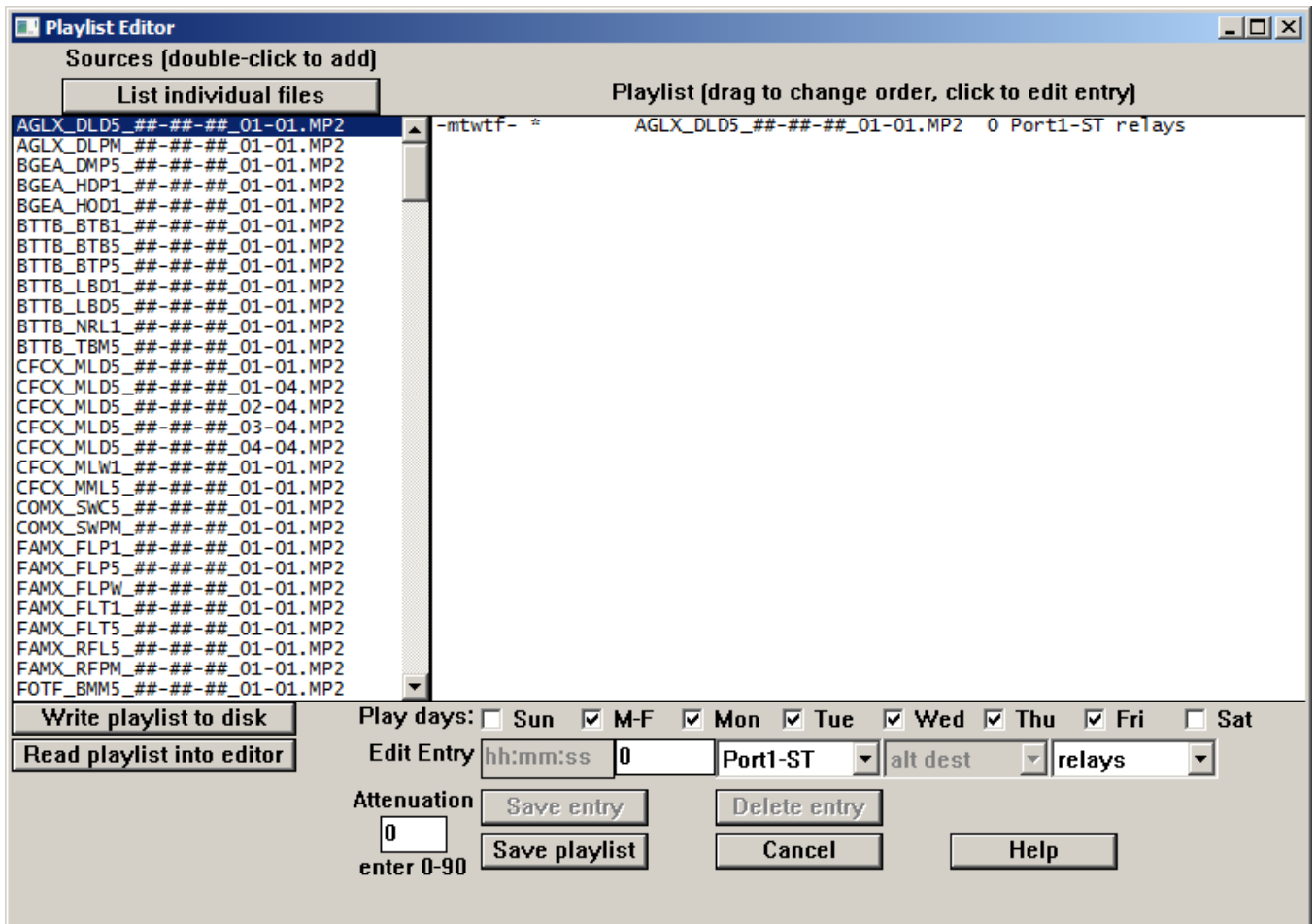
To enter a program to play, double click on the file you want to play to put it into the playlist window. Notice that the entry defaults to -mtwtf- in the playlist window and the M-F and Mon, Tue, Wed, Thu, and Fri boxes are checked. The "5" in the name of the file (AGLX_DLD**5**) means it normally airs Mon-Fri. If you do not want that to happen, you can clear any or all the days. See the File Names section in the Appendix for a discussion on how files are named.

To edit the playback of the file, highlight the entry in the "Playlist" window by clicking on it.

Time   Day offset   Alt Dest   Relay
                      Audio Port   (Future Use)
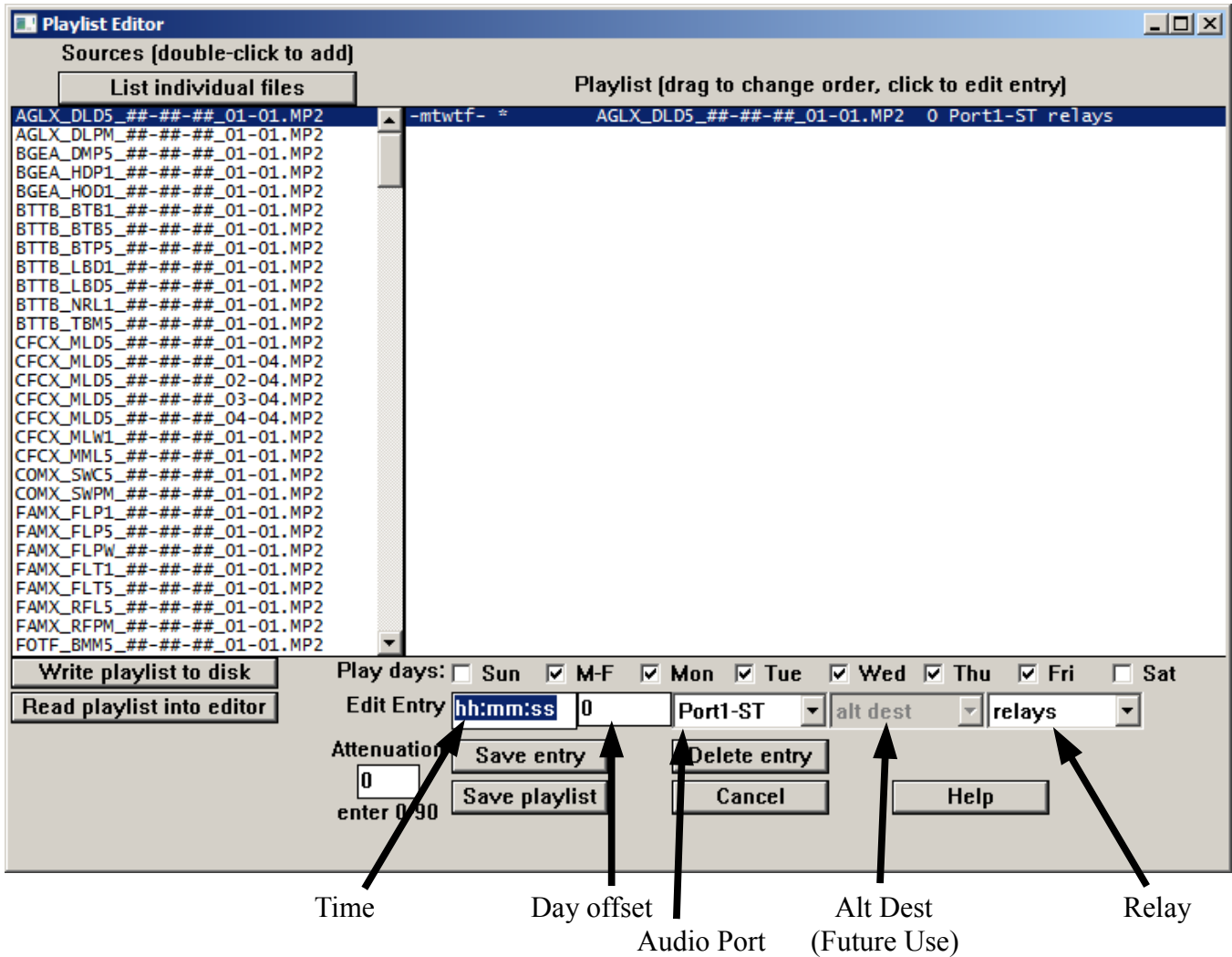
At this point the options for "Edit Entry," "Save entry," "Delete entry" and "Save playlist" become active.

Time: This is the time you want the file to play. It must be entered in 24 hour format and can be down to the second. 05:00:00 airs at 5:00 A and 17:00:00 airs at 5:00 P. A time must be entered unless you are playing files right after each other or multiple part files, but the first file must still have a time for playback. If no time is entered for files after that, then the first file will play at the specified time and following files will play right after each other and without a break between them. See the Playing Multiple Part Files section. To play the same program multiple times, see the Multiple Airings section.

Day offset: To play a file on its air date, put a "0" in this box. If you want a file to play a day early or late from the air date, should have the number of days you want it play before or after the air date. For a prefeed, put a "1" for a day early. If a program has a Saturday air date and you play it on Sunday, use a "-1" in the day offset field.

Here is how the day offset works.
  1 or +1 plays the file one day before the air date (a prefeed)
  0 plays the file on the air date
  -1 plays the file 1 day after the air date (playing a file on Sunday that has a Saturday air date)

See the Playlist Day offset section in the Appendix.

Audio Port: This selects the audio port you want to use. The AMR-100 has two ports and they can play back in either stereo or mono. If you select a mono playback and the source is stereo, the output mixes the left and right together. A mono program played in stereo simply puts the program out the left and the right channels.

Here are list of the options:

Port1-ST: Plays out the left and right of Port 1 – a mono program plays out L and R
Port1-L: Plays out the left side of Port 1 only in mono – a stereo program is mixed
Port1-R: Plays out the right side of Port 1 only in mono – a stereo program is mixed
Port2-ST: Plays out the left and right of Port 2 – a mono program plays out L and R
Port2-L Plays out the left side of Port 2 only in mono – a stereo program is mixed
Port2-R Plays out the right side of Port 2 only in mono – a stereo program is mixed

Alt dest: Other options to be released at a later date.

Relays: This selects the relay you want assigned to the program. A relay can be closed for the entire length of the program or it can be pulsed (close for one second and then open) at either the beginning OR the end of a program. You cannot pulse a relay at the beginning and at the end of a program with the Amb-OS User Interface. Using the Playlist Editor, you can pulse a relay at the beginning and at the end of a program. You can download the Playlist editor from http://www.amb-os.com/support.html.

The drop down menu allows you to choose the relay and action you want. Remember, relays 5 and 6 are normally used for time sync and alarms. Unless you have disabled those on your AMR-100 receiver, you do NOT want to chose those relays. See the AMR-100 User Manual available from http://www.amb-os.com/support.html.

The relay options are (where "X" is the relay number):
relay: No relay activity for that file
X-close: close the relay for the entire length of the program
X-start: pulse the relay at the beginning of the program
X-end: pulse the relay at the end of the program

Attenuation: Set the amount of attenuation you want for playback. A "3" in the box will reduce the audio by 3 dB. "0" is full volume (default) and "90" effectively silences the output. This is only for programs played out of the AMR-100 and it does not effect the transfer of files from the AMR-100 to your local directory. There is no amplification possible, because the gain on the receiver defaults to full volume.

Save Entry: After you complete your settings, you must click on "Save entry" or your work will be lost.

WARNING
"Save entry" must be clicked for every playback event or the changes made will be lost.

Delete Entry: If you want to remove a program from the playlist, highlight the entry you want to delete and press "Delete entry." A deleted entry cannot be recovered.

WARNING
"Delete entry" is immediate and no confirmation is asked. There is also no way to recover a deleted entry. Make sure you want to delete an entry before deleting it.

In the example below, the highlighted program will play the current day's program every weekday at 05:30:00 in stereo and pulse relay #1 at the end of the program at full volume (no attenuation).
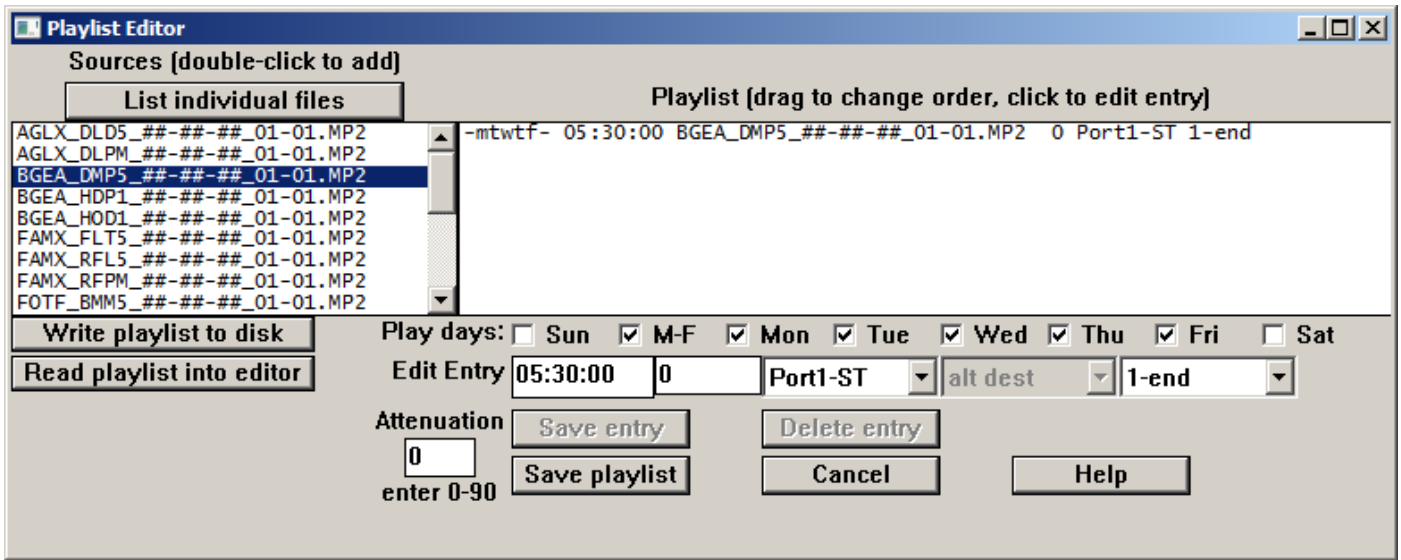
Multiple Airings

Same day airings (different times)

If you want to air a program multiple times during the day, you simply select that program for the first time you want to air it and put in the information needed for it, select "Save entry" and then double click on that program again and put in the information needed for the next airing. The following illustration shows the program set to play at two different times.
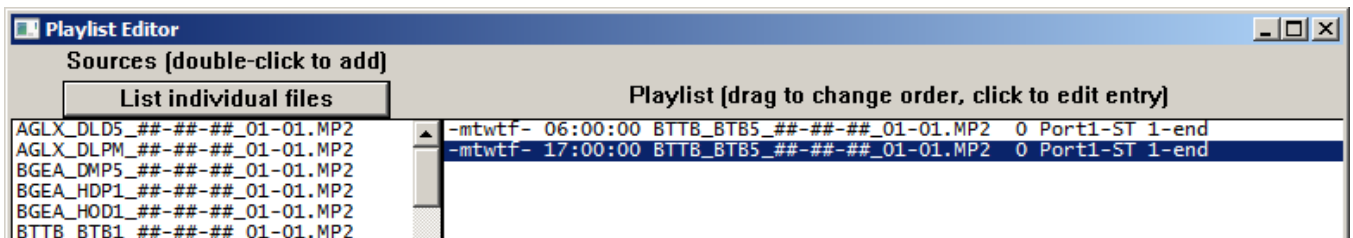
Different day airings (same times)

Prefeeds for daily programs have to account for the weekend. If you have a prefeed, Tuesday's – Friday's program on Monday – Thursday, Monday's program has to come on Friday or three days early. Even though the feeds play at the same time, the playlist needs two entries for those events, because the playbacks need different day offsets. Monday's prefeed on Friday plays back three days early to skip Saturday and Sunday. The other prefeeds playback one day in advance. The same program has the same time, but two different day offsets.

The following example shows the same programs with the different day offsets.

1 day offset   3 day offset
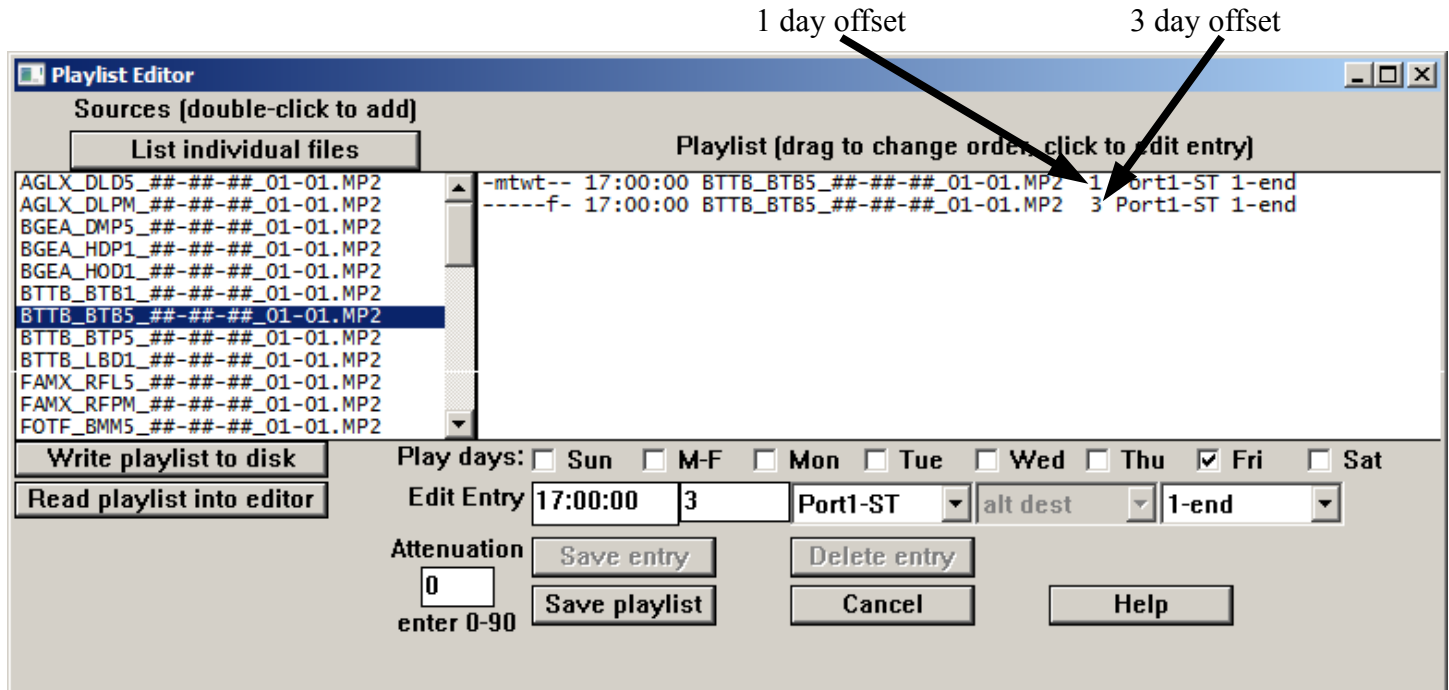
Rearranging Airings

You can rearrange items in the list by clicking on them and then dragging them to a new position. The entry you want to move is highlighted and when you drag that entry an arrow appears to the left of the playlist showing you where the entry will be put when release the mouse button.

Arrow   Highlighted entry
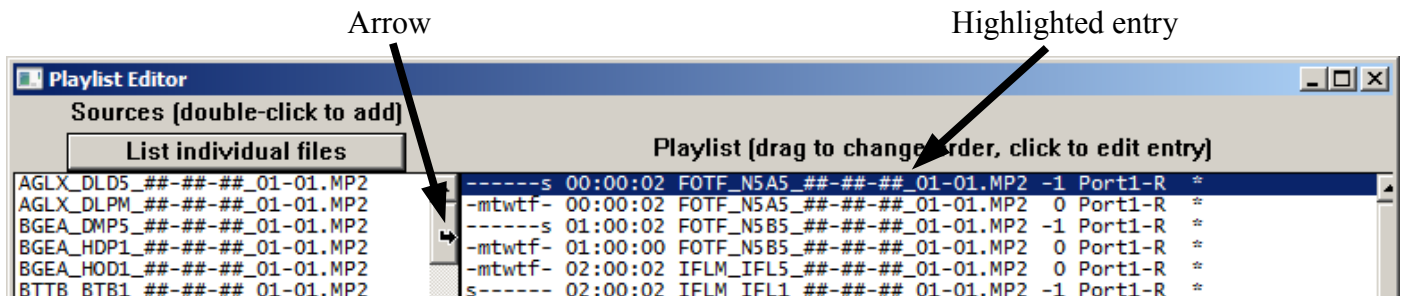

This allows you to organize your entries by day (weekdays vs. weekends), by time or something else. By being able to rearrange entries, you can put events in by program or add events and still keep them organized.

The order of the playback times does not matter. Programs scheduled for 13:00:00 and 08:00:00 can be put in any order and they will still play at their scheduled times.

Playing Multiple Part Files

To play a multiple part file as one file, put in the first part and give it a time then add the other parts without putting in times. The first part will play at the time specified and the other parts will play in sequence after the first part finishes. If you want to close a relay at the end of the entire program, add the relay closure for the last segment and not for the previous segments as illustrated below.
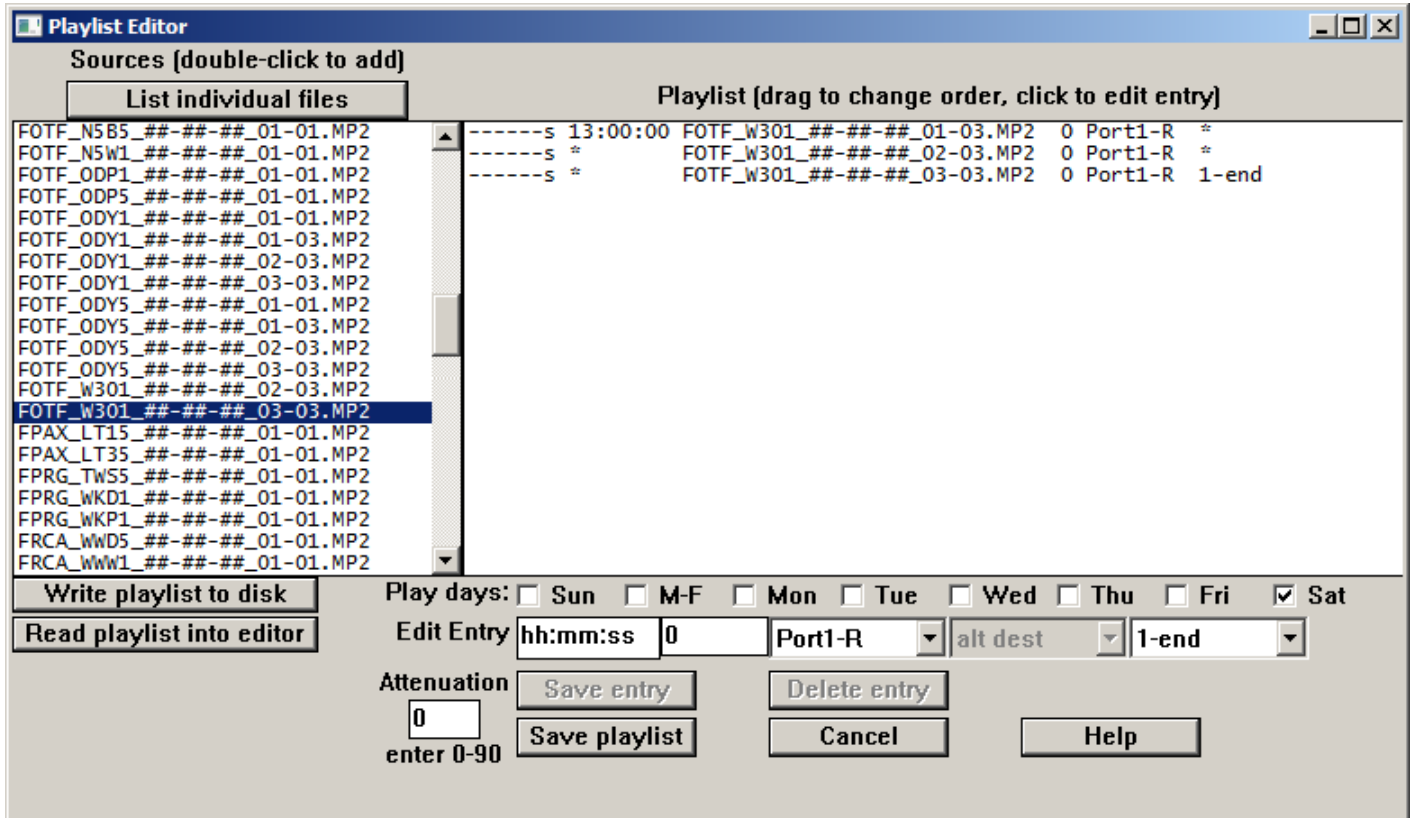
Only the first entry has the time (13:00:00) and the last entry has the relay closure (1-end). At 13:00:00, the first segment will play, then second entry will play and then third entry will play and pulse relay #1 when it finishes. The three part FOTF_W301 will play as one file at 13:00:00 local time, play all three parts and pulse the relay after the third part finishes.

The process is:
1. Double click on the first segment.
2. Enter in a time for it to playback
3. Click on "Save Entry"
4. Double click on the second segment
5. Click on "Save Entry"
6. Double click on the third segment
7. Optionally, if you want a relay closure, select the one you want
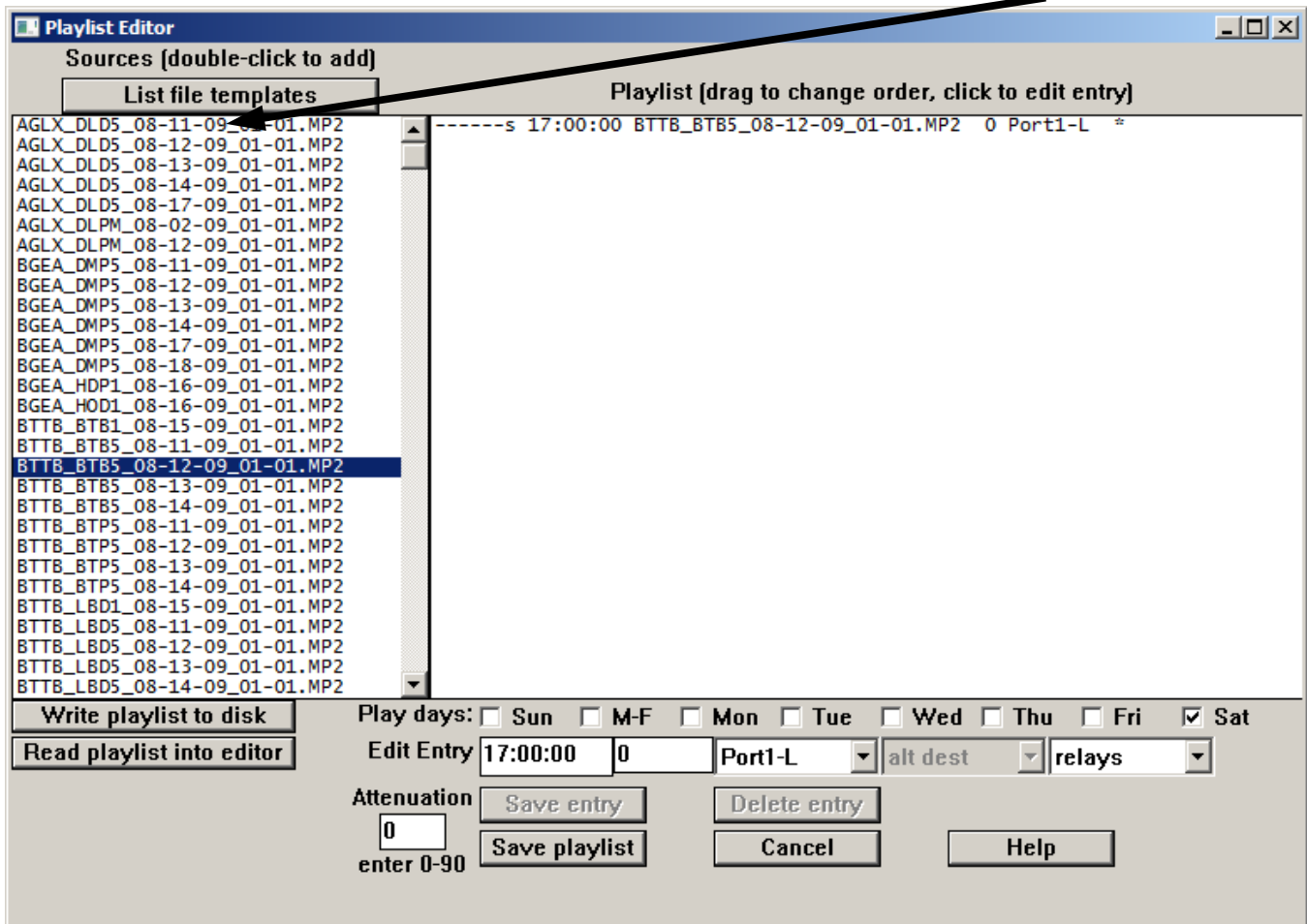8. Click on "Save Entry"

WARNING

The parts will play in the order they are listed. The first part, with the time, has to be first, the second part has to be second and the third part has to be third.

Creating a one time playback

If you want a file to only playback once for a specific date, you can change the page to list actual files by clicking on "List individual files." It will change the listing to show files with their air dates. Notice that the files are listed with their air dates (08-11-09 rather than XX-XX-XX).

You enter the event the same way you created a playlist. Double click on the program you want to air, then highlight in the "Playlist" window and enter the time and other information. Then click on "Save entry" and that file will only play once on the date of the file. If you change the day offset to -1, it will play on 8/13/09.

Saving the playlist

After you have finished working on the playlist, click on "Save playlist" and your playlist will be saved to the AMR-100. If you make changes to the playlist and press "Cancel," you will be prompted to confirm whether you want to save your changes. Pressing "Yes" will save your changes and "No" will not save the changes you made and leave the playlist in its original state.

If you press "Save playlist," the playlist will be saved on the AMR-100 and exit this function.

This only saves the playlist to the AMR-100 receiver and not to another computer.
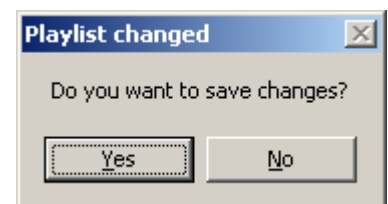
Write playlist to disk

You can save the playlist to a local directory by clicking on this button. You will be prompted to enter a location and filename.

The file is stored as a standard text file. You can edit it using a text editor. The playlist manual is available at http://www.amb-os.com/support.html. The syntax and construction of a playlist can very involved, so always save a copy of the playlist that has not been modified.

This can be useful to work on a playlist and check it before saving it to the AMR-100. If you are making several changes and cannot finish them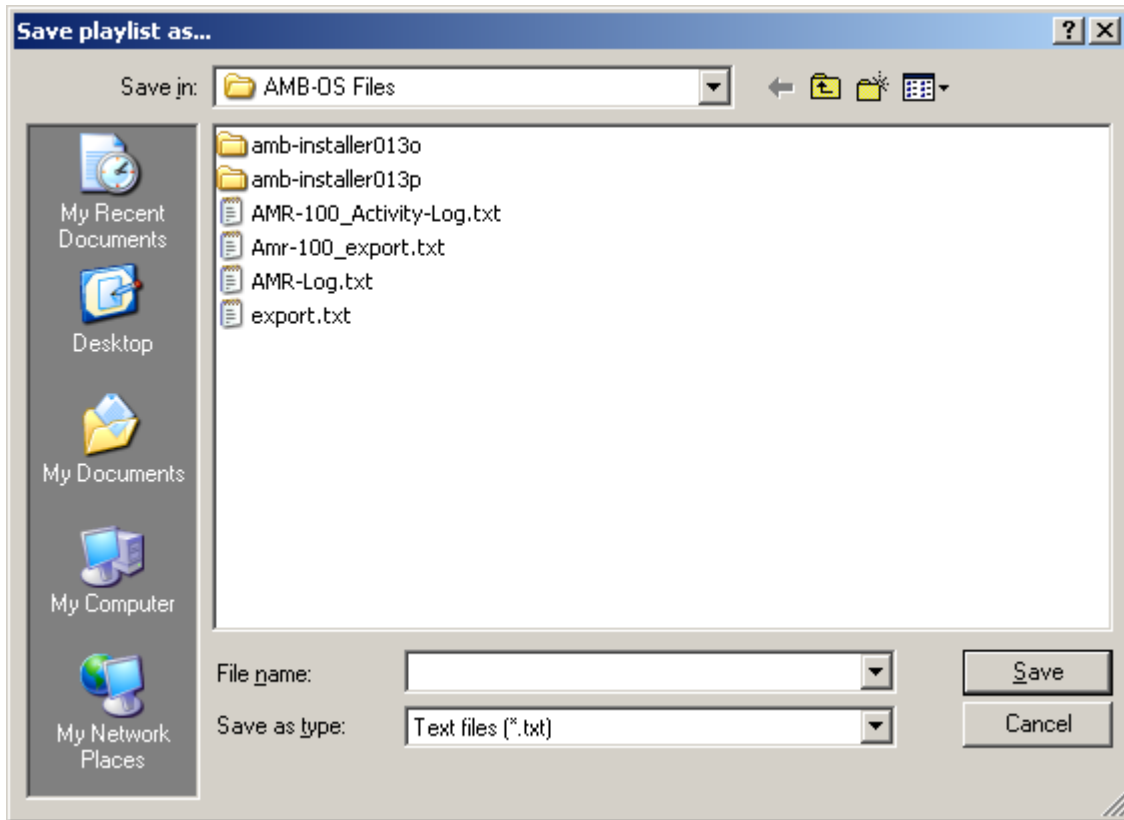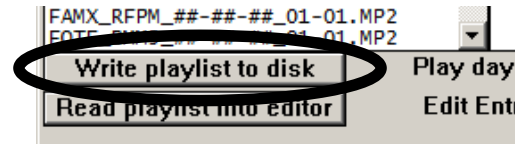, saving the playlist to a disk and *not* saving it the AMR-100, allows you to edit a playlist without changing the operation of the AMR-100 until you are ready to save the playlist to the AMR-100.

WARNING
Saving the playlist to a disk _does not_ save it to the AMR-100. You must click on "Save playlist" to save the playlist to the AMR-100.

If you are saving the playlist on a computer, but do **NOT** want to save the playlist on the AMR-100, click on "Write playlist to disk" and select a file name. Then click on "Cancel" so it will ignore your changes on the AMR-100.

After finishing your changes, you can save the playlist to a computer by clicking on "Write playlist to disk" and then pick a file name. After you do that, click on "Save" to save the playlist on the AMR-100.

Read playlist into editor

After you have saved a playlist on another computer using the "Write playlist to disk," you can bring the file back to the editor. Simply click on "Read playlist into editor" an select the playlist you saved under "Write playlist to disk."
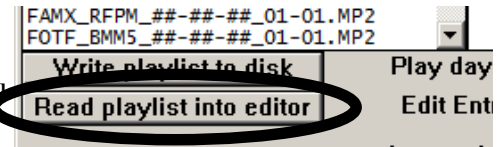
WARNING

The "Read playlist" function does not have any syntax checking options. If a playlist has been modified and it is not constructed properly, it can produce unpredictable results.

Files/Transfers

This window shows the files that have been transferred, that will be transferred, what name they will get when they are transferred and whether they are a miscellaneous or timed transfer. From this window, you can double click on a file to manually transfer it to your local directory.

Show Status Options

The options all you to filter the entries by different criteria.

All: Shows all the files on the receiver, their status, type of transfer and names they will have when transferred.

Ok: Shows only the files that have been transferred without errors.

Misc: Shows only the files that will be transferred when they are received and not on at a specific time (see the Rename files section).

Old: Shows only the files that have missed their transfer times and may need to be manually transferred, because they could overwrite an existing file. To manually transfer a file, simply double click on the file you want to transfer.

Timed: Shows only the files that are transferred at specific times (see the Rename files section).

Errors: Shows only the files that were either not transferred or had errors when they were transferred.

Manually Transfer: If you want to transfer a file again or to retry a transfer, double click on the file you want to transfer and it will transfer the file.
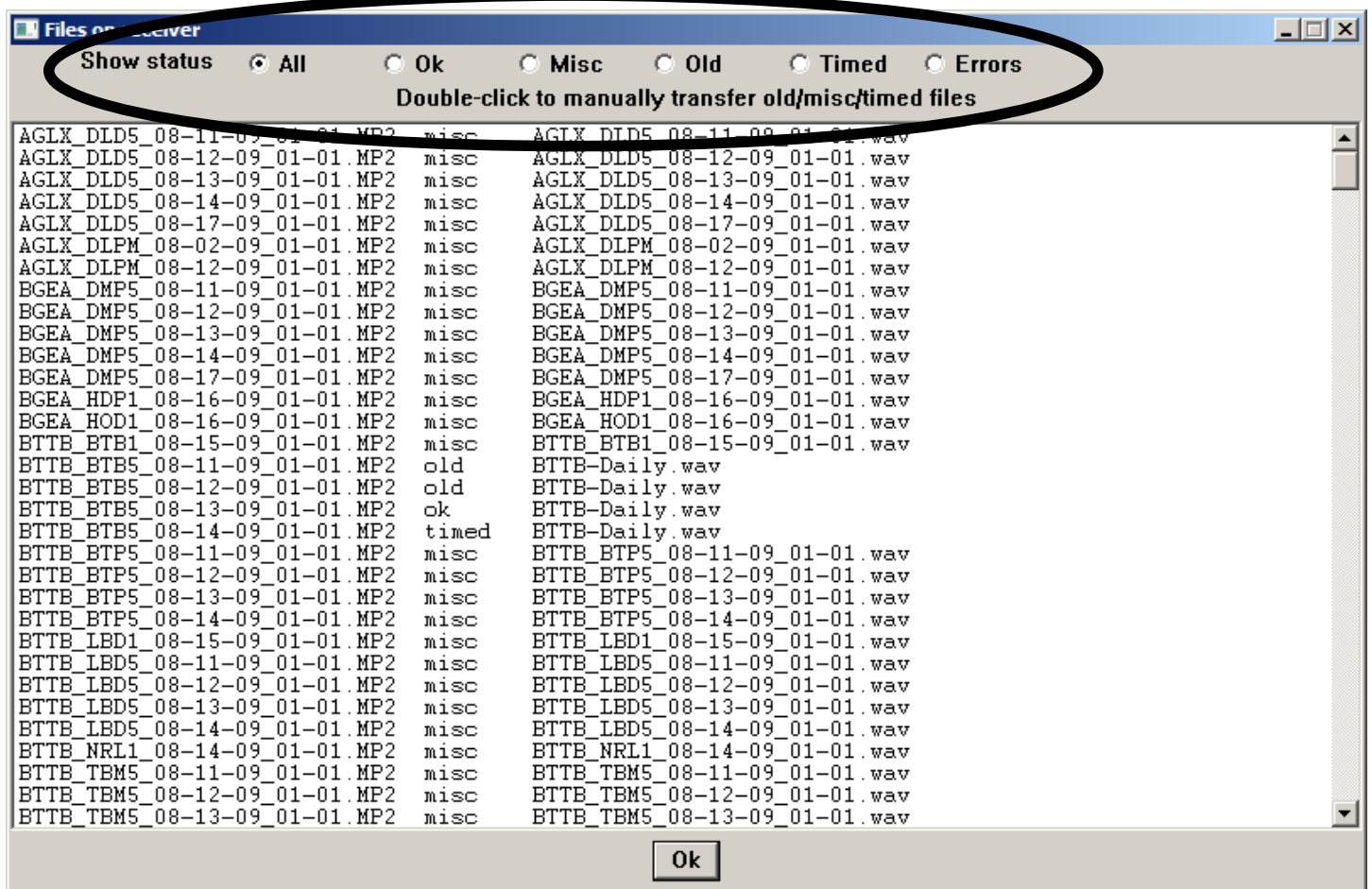
Tools

Tool Menu Items

Export system info
Import system info
Show approved files
Log activity to a file
Refresh renames
Total refresh
Sending Logs
    Upload activity to rcvr
    Upload debug to rcvr
    Upload export to rcvr
    Email activity to support
    Email debug to support
    Email export to support
    FTP file to support

Export system info

Saves your current settings to a file so you can restore them if you reinstall the program, have multiple computers controlling multiple receivers or you changed something you want to restore. With multiple receivers and having one as a backup, you can export the system info from the primary system and then use the import function on the back up computer so the two systems have the same configuration.
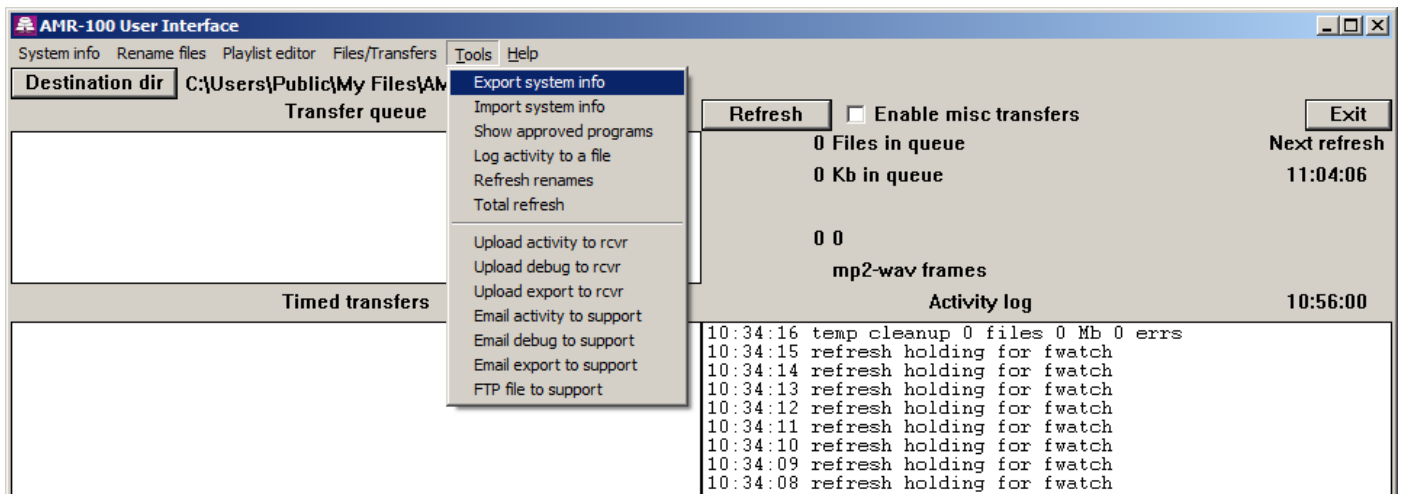
Clicking on "Export system info" option opens the export file window.
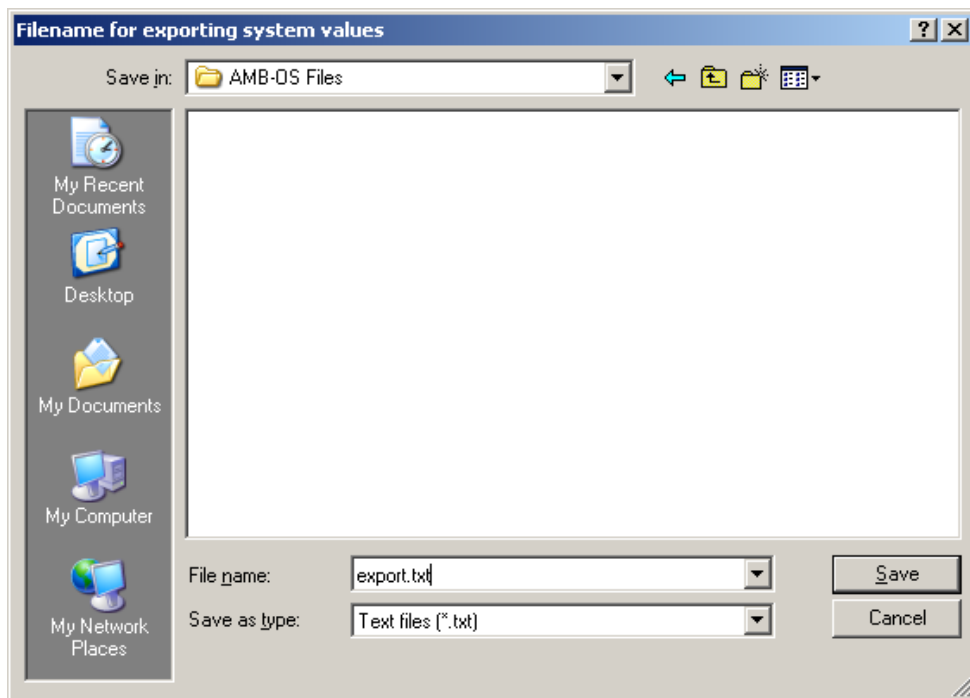
At this point, you select the directory you want to save the file and then type in the name you want to call it in the "File name" box. This stores your file as text file. The filename in the example above is "export.txt." However, you could put "2000100-export.txt"to identify it as the export file for a particular receiver.

Import system info

Allows to take settings from a different installation to your current installation. To import a file, click on the "Import system info" option and select the file you want to import.
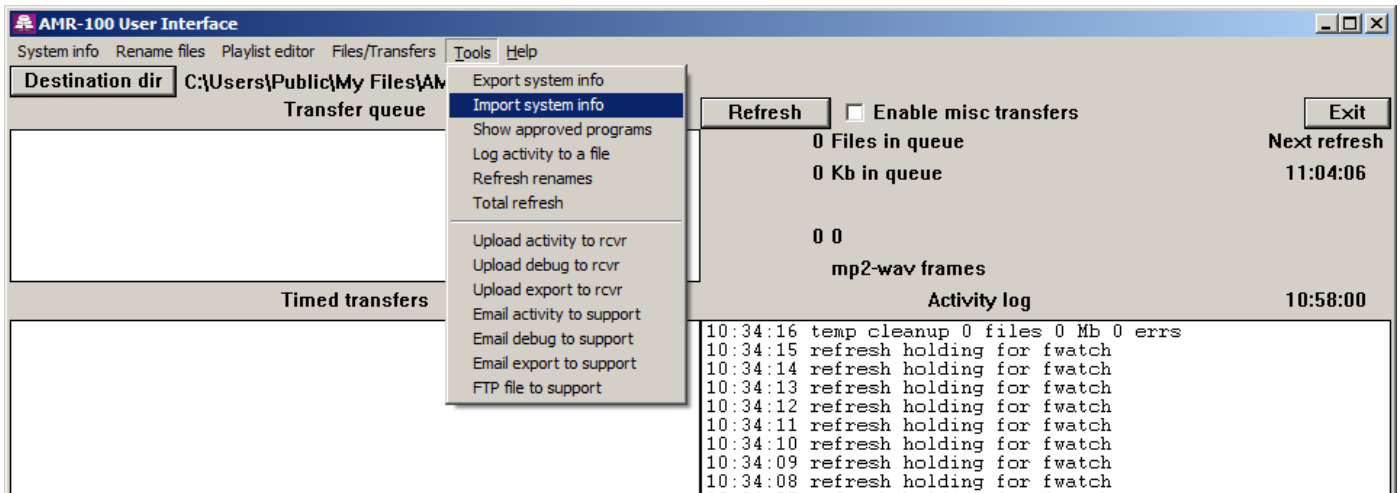
Clicking on "Import system info" opens the import file window.
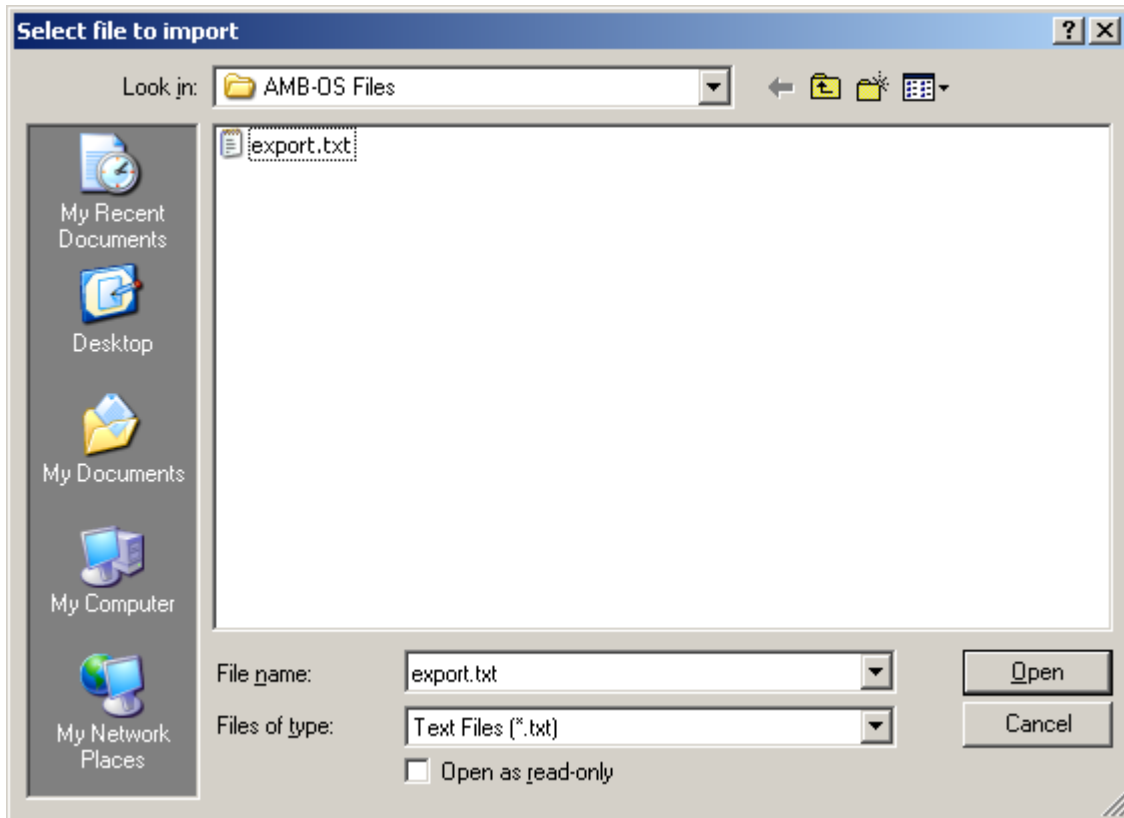
Select the file you want to import and click on "Open."

The IP address and serial number of your AMR-100 receiver are not imported and have to be entered manually if they have not already been entered. Select the "System info" to enter the IP address and serial number.

Show approved files

This shows you the files your receiver has been approved to receive and the full name of the programs. If a program is not on that screen and you want to air it, you need to contact the ministry or media agency to make get approval for that program. You may also email "programs@amb-os.com" to request a program. After approving the program, Amb-OS will grant you permission and send a base list to your receiver so it lists the new program.
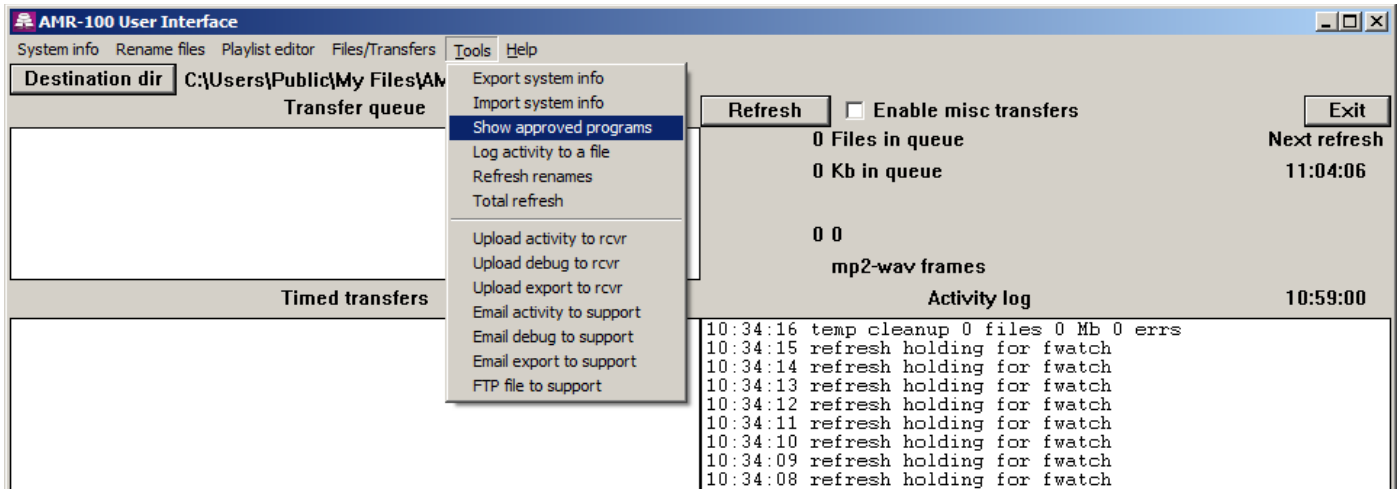
Clicking on "Show approved files" brings up the following screen.
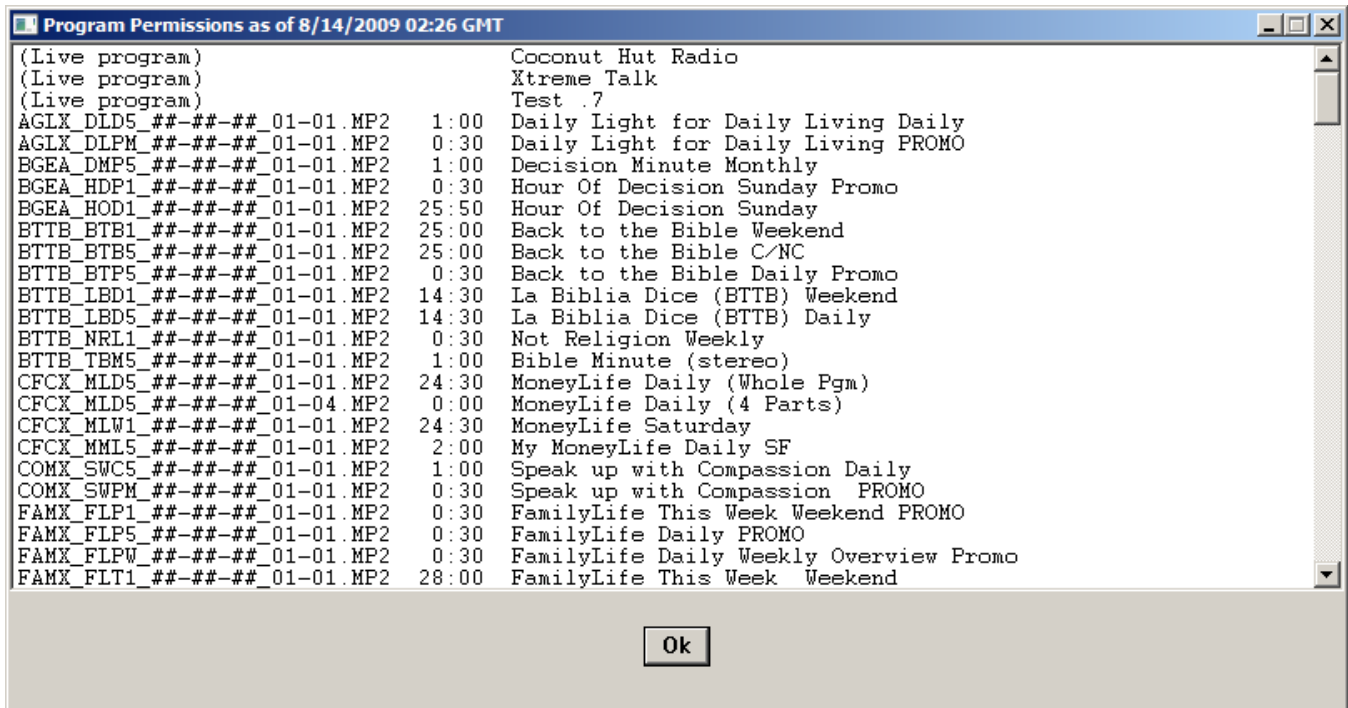
Scroll up and down to see the files and press "Ok" to exit the screen.

Log Activity to a file

In order to keep information about transfers and other information in the Amb-OS User Interface, you have the option to write the activity log to a file. If this option is not selected and the computer is rebooted or the Amb-OS User Interface is restarted, the activity log is lost. Writing it to a file preserves the log and it can be used by Amb-OS support personnel to troubleshoot a problem.
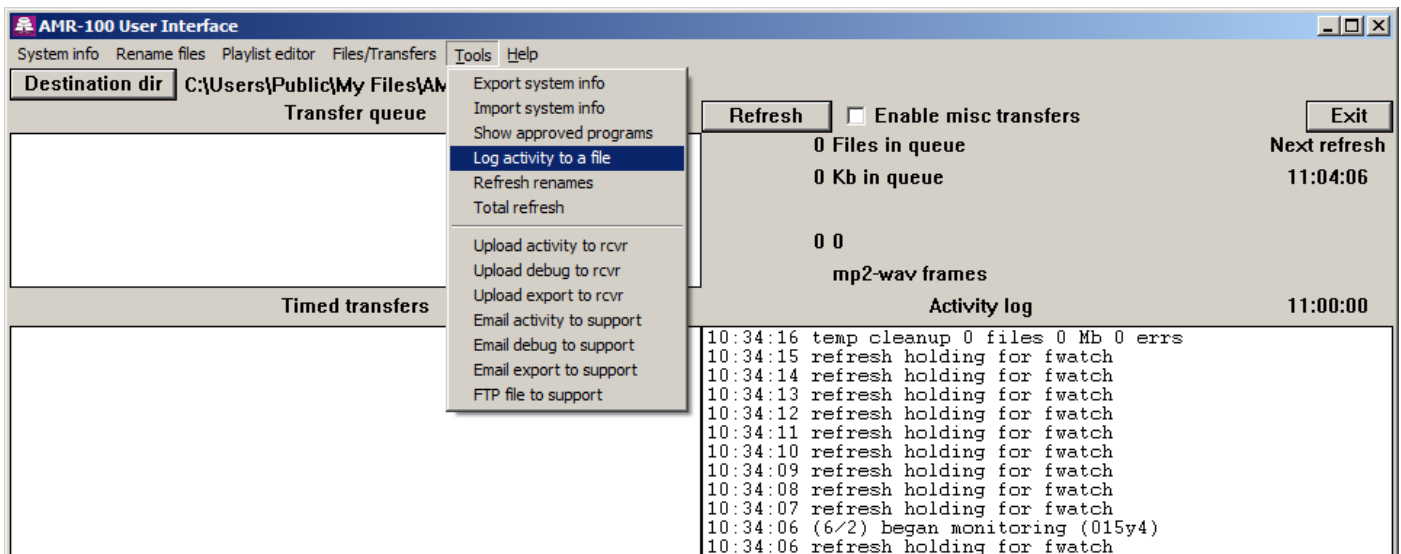
Clicking on this option opens up the select file option for the log.
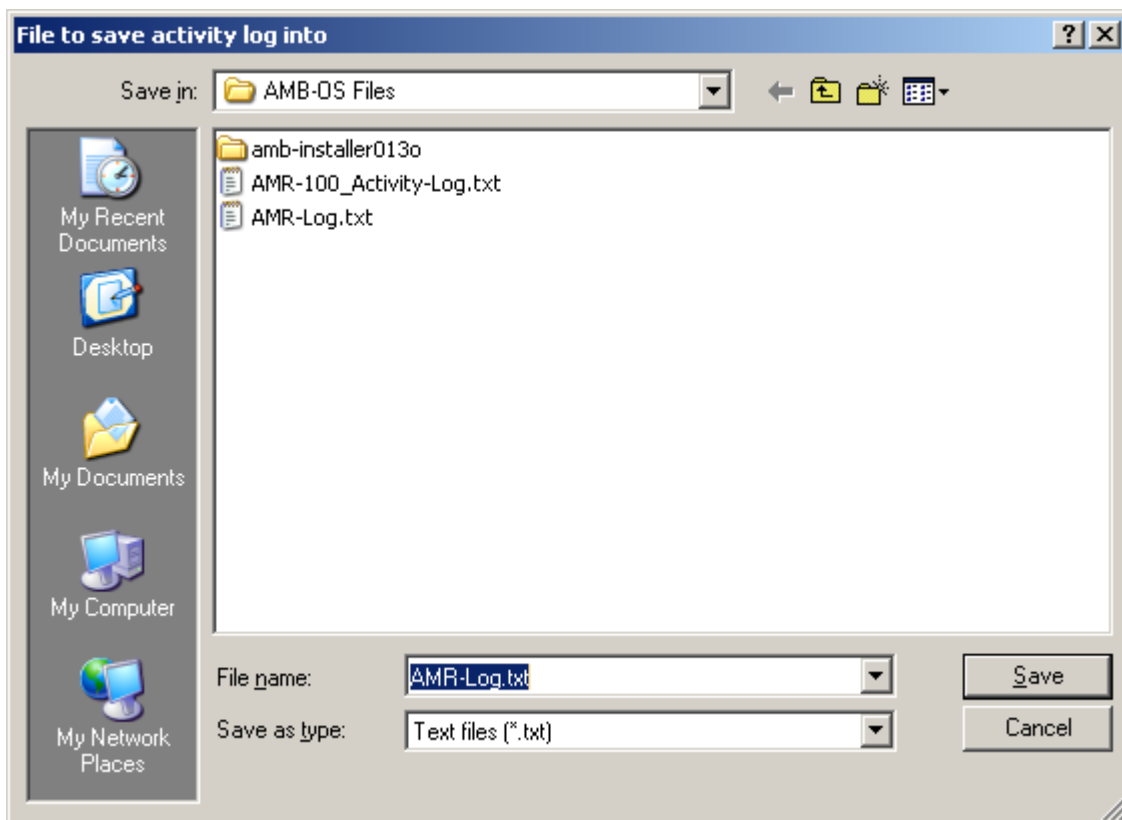
After selecting a directory and putting in a filename for your log, press "Save" to accept your choices.

AMR-100 User Interface window showing:

- Menu: System info Rename files Playlist editor Files/Transfers Tools Help
- Destination dir C:\Users\reinkesa\My Documents

Transfer queue
```
BTTB_BTB5_08-12-09_01-01.MP2 35M BTTB_Daily-WE.mp2
BTTB_BTB5_08-13-09_01-01.MP2 35M BTTB_Daily-TH.mp2
BTTB_BTB5_08-14-09_01-01.MP2 35M BTTB_Daily-FR.mp2
```

Refresh   ☐ Enable misc transfers   Exit

3 Files in queue   Next refresh

105471 Kb in queue   8:56:38

BTTB_BTB5_08-12-09_01-01.MP2

3811 kb of 35157

mp2-wav frames

Activity log → AMR-log.txt   08:45:59

Timed transfers
```
08/16 15:00 BTTB_BTB5_08-17-09_01-01.MP2 BTTB_Daily-MO.mp2
```
```
08:46:51 REPL BTTB_BTB5_08-14-09_01-01.MP2
08:46:51 REPL BTTB_BTB5_08-13-09_01-01.MP2
08:46:51 REPL BTTB_BTB5_08-12-09_01-01.MP2
```

After you have made this selection, the "Activity log" message shows you what file is used for the activity log. Without an activity log file, only "Activity log" shows on the screen.

Refresh   ☐ Enable misc transfers   Exit

286 Files to copy   Next refresh

3527946 Kb to copy   15:03:05

0 0

Conv frame

Activity log   time ping
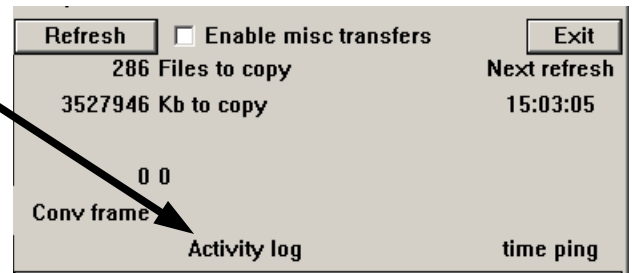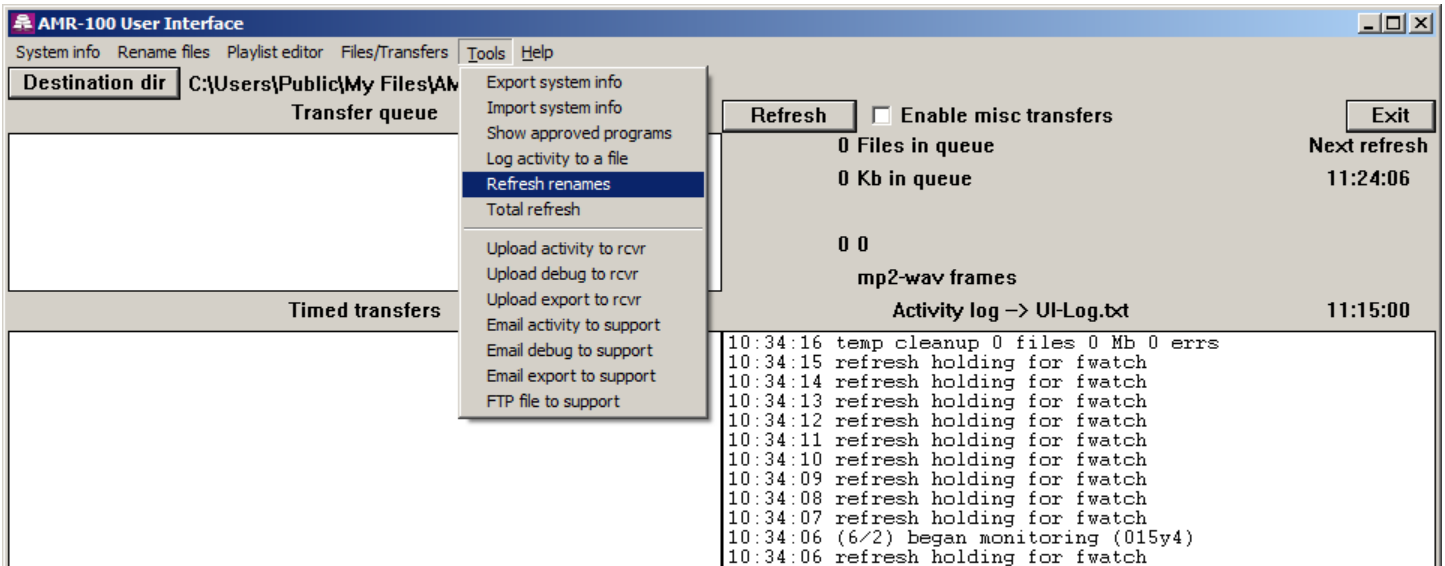
Refresh names

After clicking on the "Refresh renames," a window opens showing the Amb-OS name, the name it was originally named and the new name that will be used. This happens when a file has arrived, but the local name was changed after it arrived. This becomes useful if a new naming convention was implemented at the beginning of the month. The screen below shows only the files dated from the first of the month would be changed and that leaves the program at the end of the month with old name.
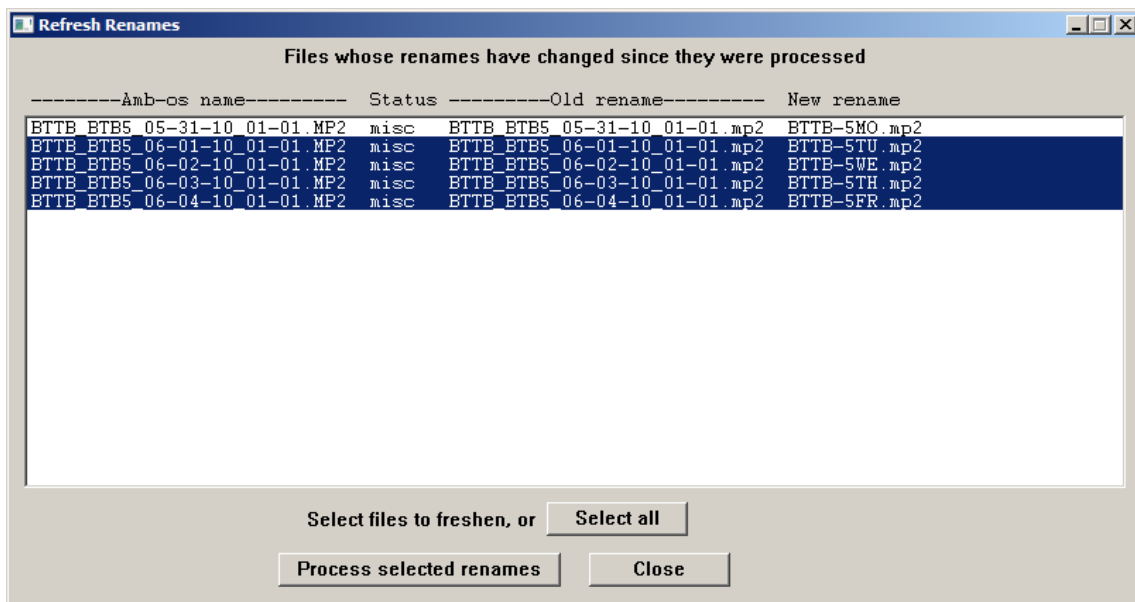
The new name must be entered in the "Rename files" window. If you want to selectively rename files, the "Make changes retroactive" in the "Rename files" window must NOT be checked.

WARNING

If "Make changes retroactive" in the "Rename files" window is checked, the file names are changed immediately and you cannot selectively rename them with "Refresh rename"

Total Refresh
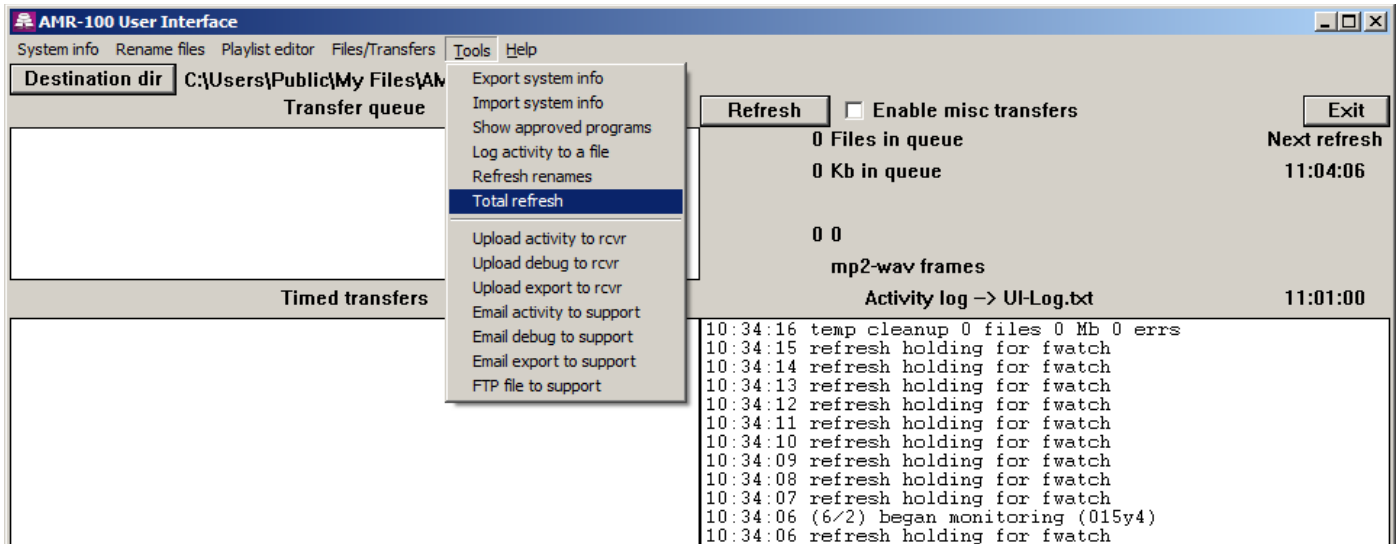
The Amb-OS User interface keeps a list of programs and their status (transferred or not) in memory. The Amb-OS User Interface tracks which files it has transferred so it does not re-transfer files. A log is saved to disk when the Amb-OS User Interface quits, and then read back into memory on startup. This process prevents duplicate copies and gives the user the ability to re-transfer files.

The "Total refresh" option gives you the ability to clear this log and rebuild. You'll be warned that if your automation system has deleted files, they will be re-transferred. The more files on your AMR-100, the longer this process will take.

If you need to transfer just one file, you can do that in the Files/Transfers window and double clicking on the file you want to transfer.
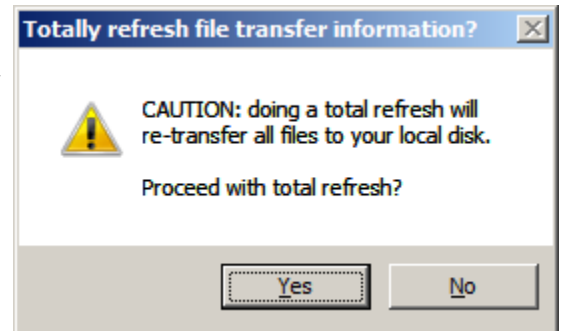
Sending Logs

The "Upload," "Email" and "FTP file" options send the activity log, debug file, export file and a potentially corrupted audio file to either the receiver or to the Amb-OS support email. These should be used only when instructed by Amb-OS support personnel.

The options to "Upload" or send the files to your receiver allowing Amb-OS support personnel to retrieve it. If your receiver does not have an internet connection, the Amb-OS support personnel may direct you to select the "Email" option and the files are emailed to the Amb-OS support email.

FTP file to support allows Amb-OS support personnel to examine a corrupted file to isolate problems. Like the "Upload" and "Email" options, this should only be done when directed by Amb-OS support personnel.

The options are:
  Upload activity to rcvr
  Upload debug to rcvr
  Upload export to rcvr
  Email activity to support
  Email debug to support
  Email export to support
  FTP file to support

Help
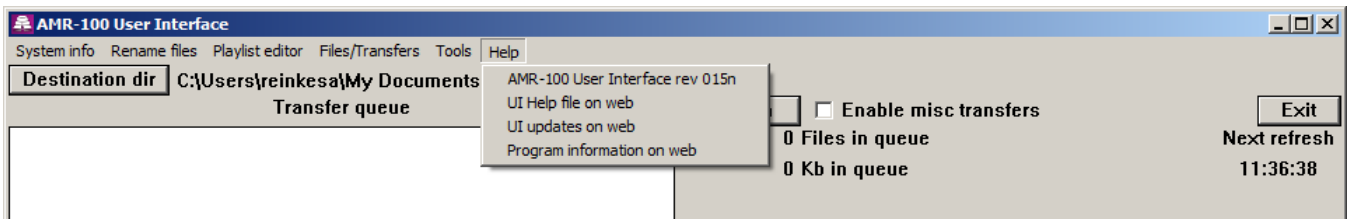
AMR-100 User Interface rev ###a: This shows you the current revision of the Amb-OS User Interface. The format is a number in three digits followed by a letter designation (015y).

UI Help file on web: This opens your browser to the online help page at:
http://www.focussat.net/ambos/amb-xfer-help.html.

UI updates on web: This opens your browser to the web page with all the versions of the Amb-OS User Interface software versions. The latest version is at the top. The address is:
http://www.focussat.net/ambos/ui.html.

Program information on the web: This opens your browser to the web page that lists the programs available on the Amb-OS system and when they are scheduled to be sent over the satellite. The address is:
http://www.focussat.net/ambos/programs.html.

Destination Directory

This option allows you to change the target directory for file transfers. You can select a local or network computer directory. If no local directory has been selected, no files will be transferred. If you want a specific directory that does not exist, you must create it before opening this option.

A detailed explanation of this process is under the Local directory section at the beginning of the manual.
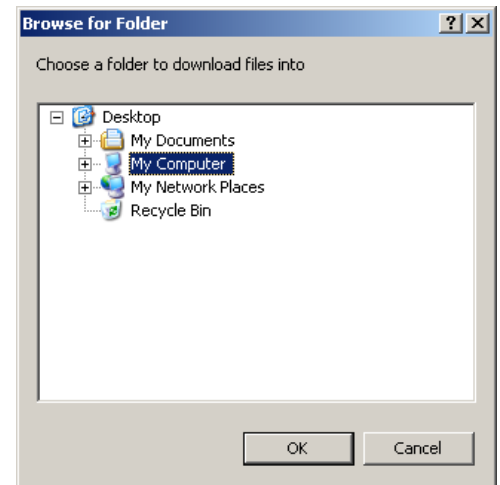
Refresh

After making changes to the timed transfers or to make sure you have the latest files from the receiver, simply press the Refresh button. This only rereads the files on the AMR-100 and does not do a total refresh which will re-transfer files.
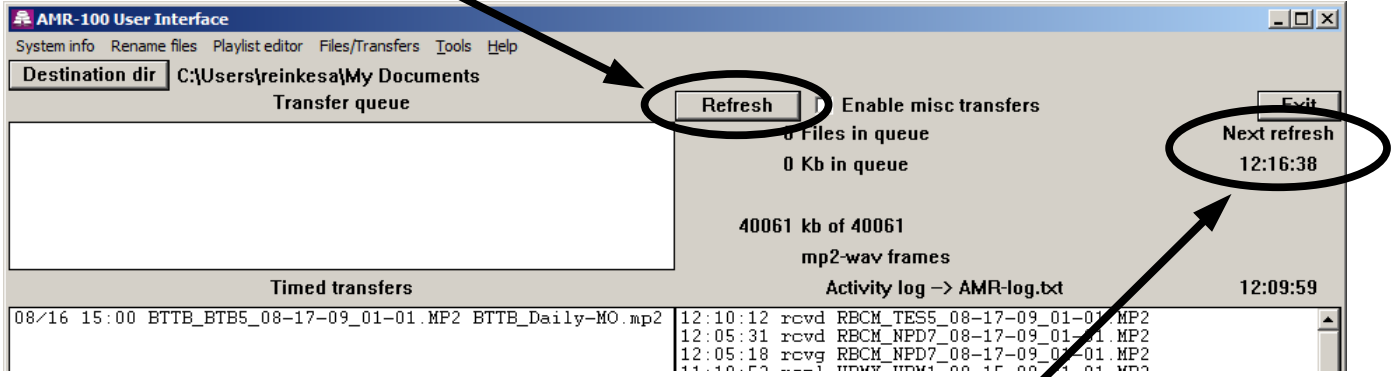
Next Refresh

Newly arrived files update automatically and the system refreshes every 10 minutes. The next refresh time is shown in under the next refresh message. Clicking the "Refresh" button will have the AMB-OS User Interface reread the AMR-100 immediately and show any changes to the timed transfers.

Enable Miscellaneous Transfers

This option turns on and off the automatic transfer of programs that do not have a timed transfer. Checking the "Enable misc transfers" will cause the files to automatically transfer to your local directory. If this box is not checked, then the files will not be transferred and will remain on the receiver. All files listed in the Transfer Queue window, do not have a timed transfer will be transferred automatically, if this box is checked, after being received successfully.
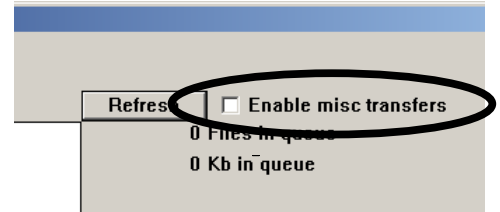
Exit

Exit terminates the program. Because terminating the program will prevent any files from transferring, you must confirm your desire to exit the program in the subsequent dialog box.
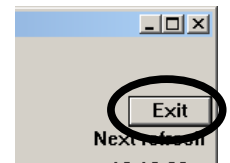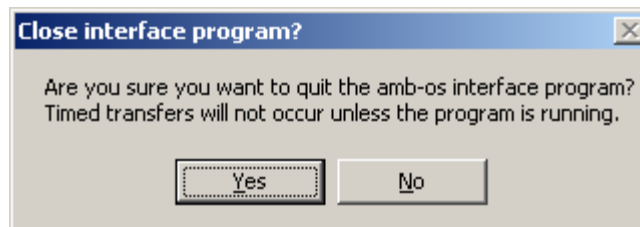
Windows

Several windows give information about what the Amb-OS User Interface is doing. The Transfer Queue shows the files that are transferred immediately after they have arrived. The Timed transfers shows the files that are transferred only at the time listed. Files with a timed transfer are not listed in the Transfer Queue and files with a timed transfer are not listed in the Timed transfer window. Between the two windows, all the files are shown that will be transferred. In order to have the files without a time transfer automatically, you must have the "Enable misc transfers" box checked.

WARNING
Files that have not arrived are not listed in either window. Only those files that have been successfully received are shown.

Transfer Queue

This shows only the files that will be transferred as soon as they arrive if the "Enable misc transfers" box is

checked. The Amb-OS User Interface transfers the file from the AMR-100 to the directory you selected in the local directory option. If you selected to rename the file in the File Rename box, the window shows that file name.

To disable the automatic transfer, clear the "Enable misc transfers" box. Clearing the "Enable misc transfers" box means you will have to manually transfer files through the Files /transfers window.
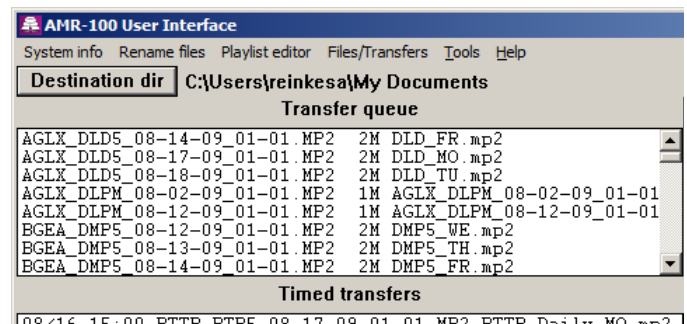
Timed Transfers

Timed transfers show the files that have specific transfer times and are set up on the Renaming files page. The files are listed in chronological order with the earliest transfer listed first. The Transfer queue window shows that will be transferred as soon as they arrive if the "Enable misc transfers" box is checked.

This illustration shows the timed transfer window with several files waiting to be transferred with the dates and times the transfer will happen and the name of the transferred file.

Files are transferred after the file has been completely received so no partial files get transferred. As long as a file arrives less than 24 hours after its scheduled transfer time, it will be transferred as soon as it arrives.

WARNING
Files arriving more 24 hours after their scheduled transfer time have to be transferred manually.

The Refresh button will update the window and show all the new files that have arrived any new pending transfers. The updated list my insert files at the top of the list, depending on the time of their transfer.

Missed transfer times

If the Amb-OS User Interface was not running at the time of a scheduled transfer, a file was delivered late or the transfer time is before the normal transmission time, the file will be transferred when the Amb-OS User Interface is restarted or when the file is available.

The Amb-OS User Interface will not transfer a file that arrives more than 24 hours after its scheduled transfer time so a current day's program is not overwritten. However, should you need to transfer that file you can go the files/transfer window and manually transfer it.

Activity Log Window

Files that have not arrived are not listed in the either the Transfer queue or the Timed transfers window. All file activity is listed in the Activity window. If you have selected a log file, it is listed here.
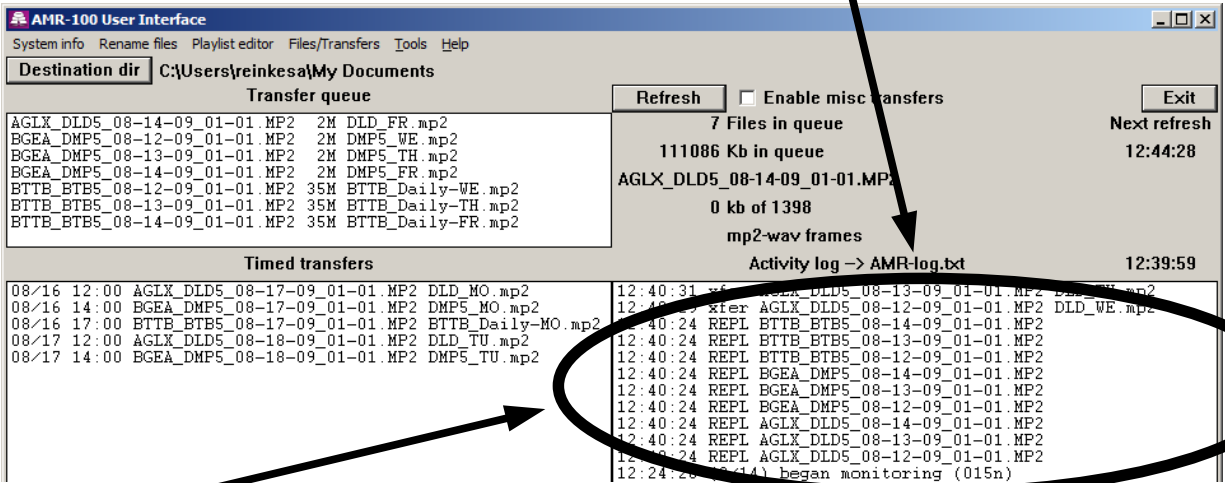
The Activity window shows what the Amb-OS User Interface has done and what is happening. A complete list of messages is listed in the Appendix. The status messages show programs being received, transferred and other activity.
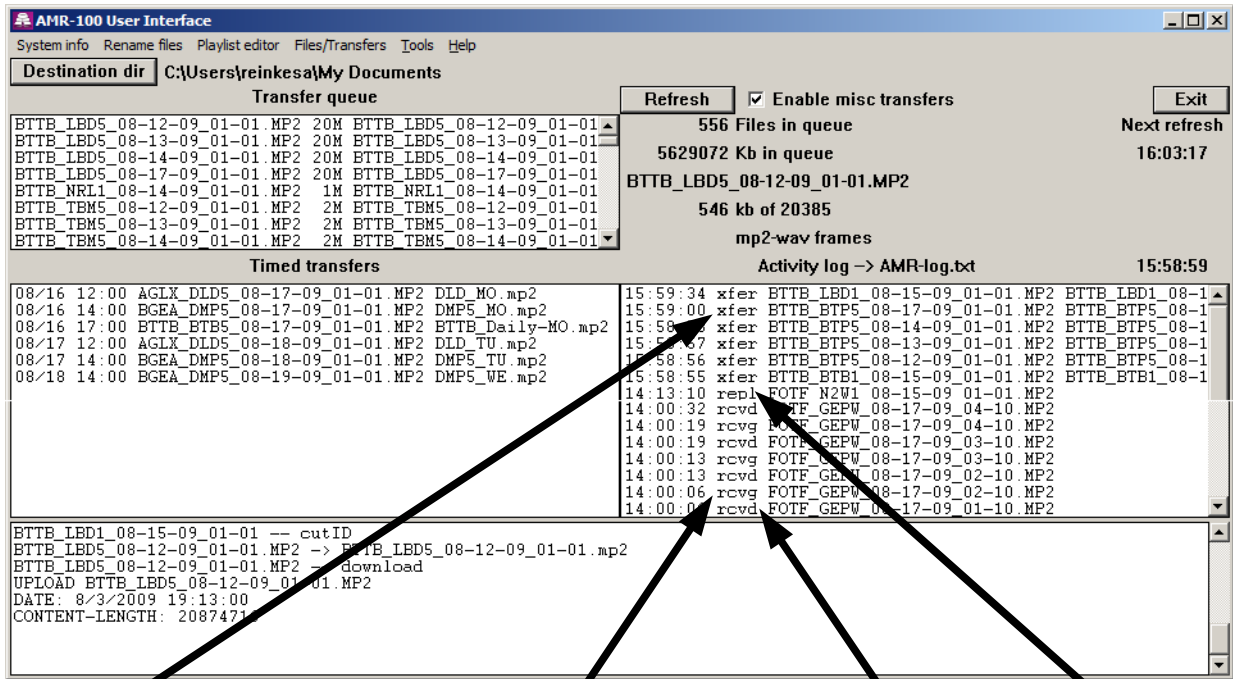
File transferred   File being received   File received   File Replaced

This shows files that have been transferred, received, being received and replaced. You can check this to verify the actual transfer time of files and if the files were transferred at the appropriate time. Remember, files will not be transferred until they have been successfully received. To verify transfer times of files, check the activity log file.

Status Messages

The status message window reports the activity between the AMR-100 and the Amb-OS User Interface. This only functions as a trouble shooting aid for Amb-OS support personnel.

Status Indicators

Time Ping

The message "time ping" only occurs when the program is first initiated. It queries the receiver for its time every minute, so it can take up to a minute for the time to appear.

After the program successfully communicates with the receiver and gets the time, the message "time ping" changes to the current time of the receiver.

The seconds are displayed as part of reading the time from the receiver, but because the time is only updated every 60 seconds, the seconds **do not** update on the screen. This only verifies the receiver's time is being updated.
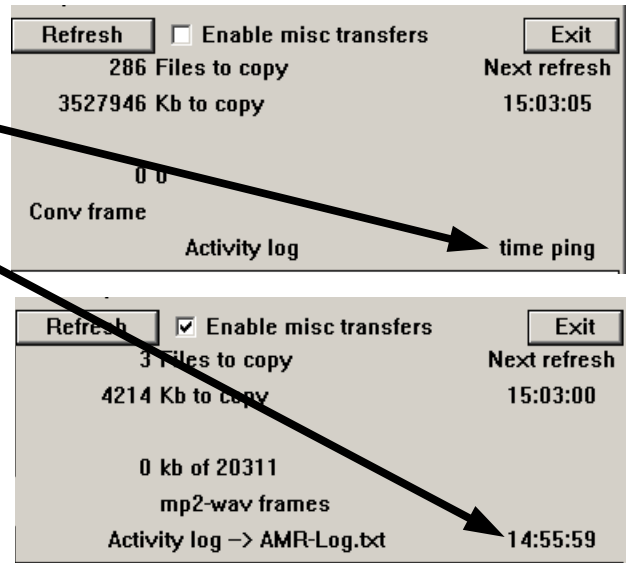
Amb-OS Appendix

Uninstall the Amb-OS User Interface

If you need to uninstall the Amb-OS User Interface, you need to delete the "*Reyware*" directory in the "*Programs*" directory on the C: or boot drive.

Open *Windows Explorer*® and select the C: drive. It may display a message that these files are hidden. Click on the option to show the files.

Double click on the "*Programs*" directory.

Scroll down until you see "*Reyware*," right click on that directory and select "*Delete*" and confirm that you want to delete the directory.

Day Offset

The day offset for file transfers and for playback are different due to the hardware requirements of the AMR-100 receiver.

After 12 PM (noon) Rule

In Rename files box under Xfer time [day], the Amb-OS User Interface makes the assumption that if no day offset is specified, then transfers before 12 PM (noon) will transfer that day's program and if the transfer time is after 12 PM (noon), the next day's program will be transferred. If the air date of a file is 06-07-09, then the following actions will be taken.

09:00 will transfer the program for 06-07-09 on 06-07-09
13:00 will transfer the program for 06-07-09 on 06-06-09

If any day offset is put in the Xfer time [day] box, this rule is ignored.

Transfer Day Offset

Use a *negative* number to prefeed or get a program before the scheduled air date. If the air date of the file is 06-07-09 and you use

-1, the file will be transferred on 06-06-09
0, the file will be transferred on 06-07-09
1, the file will be transferred on 06-08-09

For a full discussion on entering day offsets for transfers please refer to the Rename Files section.

Playlist Day Offset

Use a *positive* number to prefeed programs in the playlist. This is required because of the AMR-100 playback engine. If the air date of the file is 06-07-09

1 or +1, the file will be played on 06-06-09 (the day before the air date)
0, the file will be played on 06-07-09 (the same as the air date)
-1, the file will be played on 06-08-09 (a day after its air date)

For a full discussion on the entering day offsets for the playlist, please refer to the Playlist Editor section.

File Names

MMMM_PPPP_MM-DD-YY_PN-TP.MP2
    MMMM = Ministry Name
    PPP# = Program Name
    MM-DD-YY = Program air date
    PN-TP = part number (PN) of total parts (TP)

All the program names (PPP#) end with a number. That number indicates the number of times the program airs in a week.
    5 = 5 times a week – typically M-F. The date matches a weekday of the month.
    1 = 1 time a week – typically a weekend. The date matches either Saturday or Sunday. That depends on the individual ministry.

The parts are described by the part number (PN) of the program and the total number of parts (TP). Thus 01-01 means this is the only part of a one part program. 02-03 means the file is the second part of a three part program.

Examples of file names:

FOTF_FOF5_04-09-08_01-01.MP2
    FOTF = Focus on the Family
    FOF5 = Focus on the Family daily program
    04-09-09 = Program's air date is April 9, 2009
    01-01 = 1 part program, this is part 1 of 1 part.

LWFM_LWF5_05-09-08_01-03.MP2
    LWFM = Love Worth Finding Ministries
    LWF5 = Love Worth Finding daily program
    05-06-09 = Program's air date is May 6, 2009
    01-03 = 3 part program, this is part 1 of 3 parts.

FOTF_ODY1_05-10-08_01-03.MP2
    FOTF = Focus on the Family
    ODY1 = Adventures in Odyssey Weekend
    05-09-09 = Program's air date is May 9, 2009
    01-03 = 3 part program, this is part 1 of 3 parts.

File Specification

All files are MP2 format with a 48K sample rate.

Broadcast Wave Format

The BWF format is used primarily for MP2 files that conform to the Broadcast Wave Format and have a WAV file extension. An MP2 file that conforms to the BWF specification has to have some cart chunk information inserted (see the Insert fmt chunk in mp2 section).

Activity Window Messages

began monitoring: The Amb-OS User Interface began monitoring files on the AMR-100.
comb: A multiple part file was combined into one file.
ERR: An error happened when either transferring a file or during the MP2 Verify. The error follows the

filename. Three attempts are made to transfer or verify; therefore, if less than three errors are reported for the same file, the transfer was successful.

fwatch: Filewatch from the AMR-100. The Amb-OS User Interface receives a message from the AMR-100 when a new file has been successfully received.

rcvd: A file was successfully received by the AMR-100.

rcvg: A file is being received by the AMR-100.

refresh holding for fwatch: A refresh is scheduled, but it is waiting for the results from the *fwatch*.

repl: A file was resent to the AMR-100 and it replaced an existing file within the 24 hour window for a daily program and seven days for a weekly program.

REPL: A replacement file has been queued.

temp cleanup: The temporary directory has been cleaned to avoid transfer errors.

total refresh: The user executed a "Total refresh" from the tools menu.

xfer: A file was successfully transferred from the receiver to the local directory.

Amb-OS Program Listing

Updated 10/07/2009

To get the most accurate information goto: http://www.focussat.net/ambos/programs.html

When there are several versions of a program (eg COMM NC Border etc) the Designation will be the same, as only one version will be delivered to your receiver.

The **Queued** column is the time (eastern) that the program is queued for satellite delivery and the number of days before the airdate that a file is queued. The queue time is not when the program will arrive on your receiver, but it is the time it is scheduled to be sent. If multiple files are all queued at the same time, the files are sent one at a time and any specific file may arrive much later than the queued time. Look at the Activity log window to see what time a file arrived on your receiver so you know when it can be transferred or played.

WARNING
This table was accurate at the time of publication. Please verify the correct information on the Amb-OS web site. http://www.focussat.net/ambos/programs.html

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Abbreviations	
BORD, BORDER	for Canadian border (Canadian contact info)
C/NC/B	for use as commercial, NC, or border
CAN, CANA	Canadian version
CM, COMM	commercial version
NC, NCOM	non-commercial version
SF	short feature
SO	state-specific announcements - handled internally
(st)	stereo

Amb-OS program listing table

6/3/2010

Amb-OS Desig	Program Name	Runtime	Ministry	Queue Time	Day Offset	Air days
AGLX_DLD5	Daily Light for Daily Living Daily	1:00	Angel Ministries	18:30	5	mon-fri
AGLX_DLPM	Daily Light for Daily Living PROMO	0:30	Angel Ministries	18:30	1	monthly
AIGM_AKH5	Answers with Ken Ham	1:30	Answers in Genesis	19:20	3	mon-fri
BGEA_EMRM_02pt	BGEA Emergency Response PSA	0:30	Billy Graham Evangelical Assn	5:00	0	monthly
BGEA_H4H3	BGEA Healing4Haiti PSAs	0:30	Billy Graham Evangelical Assn	5:00	0	mon-fri
BGEA_H4H6	BGEA Healing4Haiti PSAs	1:00	Billy Graham Evangelical Assn	5:00	0	mon-fri
BGEA_DMP5	Decision Minute Monthly	1:00	Billy Graham Evangelical Assn	16:00	5	mon-fri
BGEA_HOD1	Hour Of Decision Sunday	25:50	Billy Graham Evangelical Assn	17:00	4	sun
BGEA_HDP1	Hour Of Decision Sunday Promo	0:30	Billy Graham Evangelical Assn	17:00	4	sun
BTTB_BTB5	Back to the Bible BORDER	25:00	Back to the Bible	7:10	3	mon-fri
BTTB_BTB5	Back to the Bible C/NC	25:00	Back to the Bible	6:00	3	mon-fri
BTTB_BTB5	Back to the Bible CAN-BORDER	28:30	Back to the Bible	6:10	3	mon-fri
BTTB_BTP5	Back to the Bible Daily Promo	0:30	Back to the Bible	4:00	3	mon-fri
BTTB_BTB1	Back to the Bible Weekend	25:00	Back to the Bible	6:00	3	sat
BTTB_TBM5	Bible Minute (stereo)	1:00	Back to the Bible	11:00	3	mon-fri
BTTB_LBD5	La Biblia Dice (BTTB) Daily	14:30	Back to the Bible	7:00	3	mon-fri
BTTB_LBD1	La Biblia Dice (BTTB) Weekend	14:30	Back to the Bible	7:00	3	sat
BTTB_NRL1	Not Religion Weekly	0:30	Back to the Bible	11:00	3	fri
CFCX_MLD5	MoneyLife Daily (Whole Pgm)	24:30	Crown Financial	20:20	1	mon-fri
CFCX_MLW1	MoneyLife Saturday	24:30	Crown Financial	17:00	2	sat
CFCX_MML5	My MoneyLife Daily SF	2:00	Crown Financial	20:20	5	mon-fri
COMX_SWPM	Speak up with Compassion PROMO	0:30	Compassion Intl	18:30	1	monthly
COMX_SWC5	Speak up with Compassion Daily	1:00	Compassion Intl	18:30	5	mon-fri
FAMX_FLT5	FamilyLife Daily Broadcast	26:00	Family Life Today	12:00	1	mon-fri
FAMX_FLP5	FamilyLife Daily PROMO	0:30	Family Life Today	18:30	3	mon-fri
FAMX_FLPW	FamilyLife Daily Weekly Overview Promo	0:30	Family Life Today	18:30	4	mon
FAMX_FLT1	FamilyLife This Week Weekend	28:00	Family Life Today	17:00	3	sat
FAMX_FLP1	FamilyLife This Week Weekend PROMO	0:30	Family Life Today	17:00	6	sat
FAMX_RFL5	Real Family Life Daily	1:30	Family Life Today	18:30	5	mon-fri
FAMX_RFPM	Real Family Life Daily PROMO	0:30	Family Life Today	18:30	1	monthly
FOTF_ODY5	Adventures in Odyssey Daily (st)	25:30	Focus on the Family	1:01	3	mon-fri
FOTF_ODY5_03pt	Adventures in Odyssey Daily (st) (3 Parts)	25:30	Focus on the Family	1:14	3	mon-fri
FOTF_ODP5	Adventures in Odyssey Daily Promo	0:30	Focus on the Family	1:00	3	mon-fri
FOTF_ODY1	Adventures in Odyssey Weekend (st)	25:30	Focus on the Family	5:00	3	sat
FOTF_ODY1_03pt	Adventures in Odyssey Weekend (st) (3 Parts)	25:30	Focus on the Family	5:00	3	sat
FOTF_ODP1	Adventures in Odyssey Weekend Promo	0:30	Focus on the Family	5:00	3	sat
FOTF_PISW	Conectados (Plugged in Spanish)	1:00	Focus on the Family	19:01	1	fri
FOTF_ECM5	Enfoque 90-sec comentario	1:30	Focus on the Familia	6:33	3	mon-fri
FOTF_EAF5	Enfoque a la Familia	14:30	Focus on the Familia	6:30	3	mon-fri
FOTF_BMM5	Family Minute with Bill Maier	1:00	Focus on the Family	7:00	3	mon-fri
FOTF_N1A5	Family News in Focus 1A Classic	1:00	Focus on the Family	0:00	0	mon-fri
FOTF_N1B5	Family News in Focus 1B Classic	1:00	Focus on the Family	0:00	0	mon-fri
FOTF_N1C5	Family News in Focus 1C Classic	1:00	Focus on the Family	0:00	0	mon-fri
FOTF_N1D5	Family News in Focus 1D Home version dry	1:00	Focus on the Family	0:00	0	mon-fri
FOTF_N1M5	Family News in Focus 1M Home version	1:00	Focus on the Family	0:00	0	mon-fri
FOTF_N2A5	Family News in Focus 2A	2:00	Focus on the Family	0:01	0	mon-fri
FOTF_P2A5	Family News in Focus 2A Promo	0:15	Focus on the Family	0:01	0	mon-fri

FOTF_N2B5	Family News in Focus 2B	2:00	Focus on the Family	0:01	0	mon-fri
FOTF_P2B5	Family News in Focus 2B Promo	0:15	Focus on the Family	0:01	0	mon-fri
FOTF_N2C5	Family News in Focus 2C	2:00	Focus on the Family	0:01	0	mon-fri
FOTF_P2C5	Family News in Focus 2C Promo	0:15	Focus on the Family	0:01	0	mon-fri
FOTF_N5A5	Family News in Focus 5A	4:30	Focus on the Family	0:02	0	mon-fri
FOTF_P5A5	Family News in Focus 5A Promo	0:15	Focus on the Family	0:02	0	mon-fri
FOTF_N5B5	Family News in Focus 5B	4:30	Focus on the Family	0:03	0	mon-fri
FOTF_P5B5	Family News in Focus 5B Promo	0:15	Focus on the Family	0:03	0	mon-fri
FOTF_N1W1	Family News in Focus Weekend 1-min	1:00	Focus on the Family	15:35	1	sat
FOTF_N2W1	Family News in Focus Weekend 2-min	2:00	Focus on the Family	15:35	1	sat
FOTF_N5W1	Family News in Focus Weekend 5-min	4:30	Focus on the Family	15:35	1	sat
FOTF_FNP1	Family News in Focus Weekend Promo	0:15	Focus on the Family	15:29	1	sat
FOTF_GEPW_10pt	Focus Generic Weekly Promos	9:00	Focus on the Family	16:00	3	mon
FOTF_FOF5	Focus on the Family Daily BORD CM	28:30	Focus on the Family	23:00	1	mon-fri
FOTF_FOF5	Focus on the Family Daily BORD NC	28:30	Focus on the Family	23:00	1	mon-fri
FOTF_FOF5	Focus on the Family Daily C3 CM	28:30	Focus on the Family	23:00	1	mon-fri
FOTF_FOF5	Focus on the Family Daily C3 NC	28:30	Focus on the Family	23:00	1	mon-fri
FOTF_FOF5	Focus on the Family Daily CANA + Promo	28:30	Focus on the Family	23:04	1	mon-fri
FOTF_FOP5	Focus on the Family Daily CANA + Promo	0:30	Focus on the Family	23:00	2	mon-fri
FOTF_FOF5	Focus on the Family Daily CM	28:30	Focus on the Family	23:00	1	mon-fri
FOTF_FOF5	Focus on the Family Daily NC	28:30	Focus on the Family	23:00	1	mon-fri
FOTF_FOP5	Focus on the Family Daily Promo	0:30	Focus on the Family	23:00	2	mon-fri
FOTF_DFM5	Focus on the Family Minute	1:00	Focus on the Family	7:00	3	mon-fri
FOTF_DFPM_02pt	Focus on the Family Minute Monthly Promo (2part)	0:30	Focus on the Family	2:00	3	monthly
FOTF_DV1W	Plugged In DVD Review 1 min (st)	1:00	Focus on the Family	16:00	1	tue
FOTF_DV2W	Plugged In DVD Review 2 min (st)	2:00	Focus on the Family	16:00	1	tue
FOTF_PI1W	Plugged In Movie Review 1 min (st)	1:00	Focus on the Family	16:00	1	fri
FOTF_PI2W	Plugged In Movie Review 2 min (st)	2:00	Focus on the Family	16:00	1	fri
FOTF_W301_03pt	Weekend 30min Magazine (3 parts)	0:00	Focus on the Family	1:03	4	sat
FOTF_FOF1	Weekend Magazine	55:05	Focus on the Family	12:00	5	sat
FOTF_FOF1_04pt	Weekend Magazine (4 Parts)	55:05	Focus on the Family	12:40	5	sat
FOTF_FOF1	Weekend Magazine CANA	55:05	Focus on the Family	11:11	5	sat
FOTF_FOP1	Weekend Magazine CANA Promo	0:30	Focus on the Family	11:10	5	sat
FOTF_FOP1	Weekend Magazine Promo	0:30	Focus on the Family	12:00	5	sat
FPAX_LT15	Listen to the Bible 1 minute Daily	1:00	Fellowship for Performing Arts	18:30	5	mon-fri
FPAX_LT35	Listen to the Bible 3 minute Daily	3:00	Fellowship for Performing Arts	18:30	5	mon-fri
FPRG_TWS5	The Word (stereo)	4:30	Family Programs	1:00	3	mon-fri
FPRG_WKD1	We Kids (stereo)	28:30	Family Programs	18:16	6	sat
FPRG_WKP1	We Kids Promo (stereo)	0:30	Family Programs	18:15	6	sat
FRCA_WWD5	Tony Perkins Minute	1:00	Family Research Council	14:10	1	mon-fri
FRCA_WWW1	Washington Watch Weekend	28:00	Family Research Council	10:00	1	sat
FTJD_FTP5	Family Talk Daily PROMO	0:30	Family Talk with James Dobson	6:00	2	mon-fri
FTJD_FTD5	Family Talk with James Dobson	26:00	Family Talk with James Dobson	21:00	1	mon-fri
GTYX_BQA5	GTY Bible Q&A	2:00	Grace to You	10:30	3	mon-fri
GTYX_GTY5	Grace to You Daily CM	28:55	Grace to You	18:30	3	mon-fri
GTYX_GTY5	Grace to You Daily NC	28:55	Grace to You	18:30	3	mon-fri
GTYX_GTP5	Grace to You Daily PROMO	0:30	Grace to You	18:30	6	mon-fri
GTYX_GTY1	Grace to You Weekend	23:55	Grace to You	17:00	3	sat
GTYX_GTP1	Grace to You Weekend PROMO	0:30	Grace to You	17:00	4	sat
GTYX_GTPW	Grace to You Weekly Overview PROMO	0:30	Grace to You	18:30	4	mon
GTYX_POG5	Portraits of Grace Daily	1:00	Grace to You	18:30	5	mon-fri
GTYX_PGP5	Portraits of Grace Daily PROMO	0:30	Grace to You	18:30	1	mon-fri

HARV_ANB5	A New Beginning-COMM	25:00	Harvest Ministries	5:00	3	mon-fri
HARV_ANB5	A New Beginning-NC	25:00	Harvest Ministries	5:10	3	mon-fri
HARV_ANB1	A New Beginning-Weekend	25:00	Harvest Ministries	4:00	3	sat
HARV_ANPW	A New Beginning-Weekly Promo	0:30	Harvest Ministries	4:00	3	mon
HARV_ATH5	A Time for Harvest	2:00	Harvest Ministries	16:00	3	mon-fri
HCJB_BTC5	Beyond the Call Daily	1:00	HCJB Global	18:30	5	mon-fri
HHPX_KIS5	Keep it Simple Daily	1:00	Harvest House Publishers	18:30	5	mon-fri
HHPX_KIPM	Keep it Simple Daily PROMO	0:30	Harvest House Publishers	18:30	1	monthly
HHPX_WGH1	Woman After God's Own Heart Special: An Old Fashioned Christmas	25:00	Harvest House Publishers	18:30	1	sat
HHPX_WGH5	Woman after God's own Heart Daily	1:00	Harvest House Publishers	20:30	3	mon-fri
HHPX_WGPM	Woman after God's own Heart Volume PROMO	0:30	Harvest House Publishers	20:30	3	monthly
HRMX_PRO5	Haven Daily PROMO	0:30	Haven Ministries	20:20	1	mon-fri
HRMX_NOW5	Haven Now	0:20	Haven Ministries	20:20	1	mon-fri
HRMX_HRM5	Haven Today	26:00	Haven Ministries	20:20	1	mon-fri
HRMX_HRM1	Haven Weekend	26:00	Haven Ministries	21:00	2	sat
ICRM_BTG5	Back to Genesis Daily	1:00	Institute for Creation Research	18:31	3	mon-fri
ICRM_BTGW	Back to Genesis Weekly Promo	1:00	Institute for Creation Research	18:31	5	sat
ICRM_SSS1	Science, Scripture & Salvation Weekly	15:00	Institute for Creation Research	19:00	4	sat
ICRM_SSSW	Science, Scripture & Salvation Weekly Promo	1:00	Institute for Creation Research	18:31	0	sun
IFLM_SPC1	IFL Holiday Specials	0:00	Insight for Living	6:00	2	irregular
IFLM_SPC1_03pt	IFL Holiday Specials	53:36	Insight for Living	6:00	2	irregular
IFLM_IFL5	Insight for Living Daily BORD	27:30	Insight for Living	10:15	3	mon-fri
IFLM_IFL5	Insight for Living Daily C/NC	27:30	Insight for Living	10:00	3	mon-fri
IFLM_IFP5	Insight for Living Daily Promo	0:30	Insight for Living	9:15	3	mon-fri
IFLM_ISF5	Insight for Living SF (Insights)	1:00	Insight for Living	9:00	3	mon-fri
IFLM_IFL1	Insight for Living Weekend BORD	27:30	Insight for Living	10:15	5	sat
IFLM_IFL1	Insight for Living Weekend C/NC	27:30	Insight for Living	10:00	3	sat
IFLM_IFP1	Insight for Living Weekend Promo	0:30	Insight for Living	9:00	5	sat
IFLM_IFPW	Insight for Living Weekly Promo	0:30	Insight for Living	9:30	3	mon
IFLM_PAT1	Paws and Tales (stereo)+Promo 1 Part	28:00	Insight for Living	6:15	5	sat
IFLM_PTP1	Paws and Tales (stereo)+Promo 1 Part	0:30	Insight for Living	6:10	5	sat
IFLM_PAT1_03pt	Paws and Tales (stereo)+Promo 3 Parts	0:00	Insight for Living	6:30	5	sat
IFLM_VPV5	Vision Para Vivir Daily NC	27:30	Insight for Living	12:30	3	mon-fri
IFLM_VPV1	Vision Para Vivir Weekend	27:30	Insight for Living	13:00	5	sat
ITM__ITS5	En Contacto (In Touch) Daily	24:30	In Touch	0:45	3	mon-fri
ITM__ITM5	In Touch Daily	24:30	In Touch	1:30	3	mon-fri
ITM__ITP5	In Touch Daily Promo	0:30	In Touch	1:29	3	mon-fri
ITM__ITPM_04pt	In Touch Monthly Promo (4part)	1:00	In Touch	1:45	3	monthly
ITM__IT31	In Touch Wkend 30min	24:30	In Touch	1:40	5	sat
ITM__IT61	In Touch Wkend 60min	57:30	In Touch	1:35	5	sat
ITM__ITP1	InTouch Weekend Promo	1:00	In Touch	2:00	5	irregular
ITM__IT31	InTouch Wkend 30-Min AFN	24:30	In Touch	1:45	5	sat
JAFX_DID5	Diamonds in the Dust Daily	1:00	Joni and Friends	18:30	5	7 days
JAFX_PSAM_05pt	JAF Disability PSAs (5)	1:00	Joni and Friends	8:00	0	monthly
JAFX_JAF5	Joni and Friends Daily	4:00	Joni and Friends	18:30	5	mon-fri
JAFX_JAPW	Joni and Friends Weekly Overview PROMO	0:30	Joni and Friends	18:30	4	mon
LIFX_LIF5	Life Issues Daily	1:00	Life Issues	18:30	1	mon-fri
LWFM_LWS5	El Amor Que Vale (LWF) Daily	25:00	Love Worth Finding	7:00	3	mon-fri
LWFM_LWS1	El Amor Que Vale (LWF) Weekend	25:00	Love Worth Finding	7:05	3	sat
LWFM_LWF5_03pt	Love Worth Finding COMM -3 PARTS	25:05	Love Worth Finding	2:15	3	mon-fri
LWFM_LWF5	Love Worth Finding International	25:00	Love Worth Finding	4:15	3	mon-fri
LWFM_LWF5	Love Worth Finding NC	25:00	Love Worth Finding	3:00	3	mon-fri

Code	Title	Duration	Provider	Time	Num	Days
LWFM_LWPM_02pt	Love Worth Finding Promos (Monthly)	0:30	Love Worth Finding	7:01	3	monthly
LWFM_LWPM_03pt	Love Worth Finding Promos (Monthly)	0:30	Love Worth Finding	7:02	3	monthly
LWFM_LW31	Love Worth Finding Wkend 30min	25:05	Love Worth Finding	0:30	3	sat
LWFM_LW61	Love Worth Finding Wkend 60min	55:00	Love Worth Finding	0:35	3	sat
LWFM_LWT5	Treasures from the Word (LWF)	1:30	Love Worth Finding	2:30	3	mon-fri
LWMX_LWM5	Living Way Daily	26:25	Living Way	18:30	1	mon-fri
LWMX_LWPW	Living Way Weekly Overview PROMO	0:30	Living Way	18:30	4	mon
MNNX_MN15	Mission Network News 1 minute Daily	1:00	Mission Network	20:20	1	mon-fri
MNNX_MN25	Mission Network News 2 minute Daily	2:00	Mission Network	20:20	1	mon-fri
MNNX_MNN5	Mission Network News 5 minute Daily	4:30	Mission Network	20:20	1	mon-fri
MNNX_SA11	Mission Network News Weekend Saturday 1 minute	1:00	Mission Network	14:30	1	sat
MNNX_SA21	Mission Network News Weekend Saturday 2 minute	2:00	Mission Network	14:30	1	sat
MNNX_SU11	Mission Network News Weekend Sunday 1 minute	1:00	Mission Network	14:30	2	sun
MNNX_SU21	Mission Network News Weekend Sunday 2 minute	2:00	Mission Network	14:30	2	sun
MNNX_MNP5	Mission Network News promo Daily	0:30	Mission Network	20:20	1	mon-fri
MSHX_MSH5	Mercy Minute Daily	1:00	Mercy Ships	18:30	5	mon-fri
MSHX_MSPM	Mercy Minute PROMO	0:30	Mercy Ships	18:30	1	monthly
PFMX_BPT5	Break Point Daily NC	4:00	Prison Fellowship	20:20	1	mon-fri
PFMX_BPT1	Break Point This Week	25:25	Prison Fellowship	14:00	1	sat
PFMX_BPP1	Break Point This Week Promo	0:30	Prison Fellowship	20:20	8	sat
PFMX_BPT5	BreakPoint Daily CM	3:55	Prison Fellowship	20:20	1	mon-fri
PFMX_PNT5	The Point Daily	1:00	Prison Fellowship	20:20	1	mon-fri
PTTM_PTC5	Parenting Today's Teens Daily CCM (1:00)	1:00	Heartlight Ministries	6:00	3	mon-fri
PTTM_PTI5	Parenting Today's Teens Daily INSP (1:00)	1:00	Heartlight Ministries	6:00	3	mon-fri
PTTM_PTT1	Parenting Today's Teens Weekly (28:00)	28:00	Heartlight Ministries	6:00	2	sat
PV31_PVB5	Proverbs 31 Daily	1:00	Proverbs 31	16:00	5	mon-fri
PWMX_LWJ5	Living with Joy Daily	25:00	Phil Waldrep Ministries	6:00	3	mon-fri
PWMX_LWP5	Living with Joy Daily PROMO	0:30	Phil Waldrep Ministries	6:00	3	mon-fri
PWMX_LWJ1	Living with Joy Weekend	25:00	Phil Waldrep Ministries	6:00	3	sat
PWMX_LWP1	Living with Joy Weekend PROMO	0:30	Phil Waldrep Ministries	6:00	3	sat
RBCM_DTW5	Discover the Word (stereo) or Promo	14:30	RBC Ministries	9:12	3	mon-fri
RBCM_DTPW	Discover the Word (stereo) or Promo	0:30	RBC Ministries	9:15	3	sun
RBCM_CBR1	La Clase Biblica Radial Sunday	14:30	RBC Ministries	14:00	3	sun
RBCM_NPD7	Nuestro Pan Diario (RBC)	2:30	RBC Ministries	14:05	3	7 days
RBCM_OD25	Our Daily Bread - 2 min (st)	2:00	RBC Ministries	9:10	3	mon-fri
RBCM_OD55	Our Daily Bread - 5 min (st)	4:30	RBC Ministries	9:10	3	mon-fri
RBCM_SP3W	Sports Spectrum Promo 30 sec	0:30	RBC Ministries	11:02	5	sun
RBCM_SP6W	Sports Spectrum Promo 60 sec	1:00	RBC Ministries	11:03	5	sun
RBCM_SSL1	Sports Spectrum Weekend	55:00	RBC Ministries	8:01	5	sat
RBCM_SSL1_05pt	Sports Spectrum Weekend (5-part)	10:00	RBC Ministries	8:16	5	sat
RBCM_TES5	Tesoros Escondidos	0:00	RBC Ministries	14:10	3	mon-fri
RBCM_WLB1	Words to Live By (stereo) or Promo	29:30	RBC Ministries	9:10	5	sat
RBCM_WLP1	Words to Live By (stereo) or Promo	0:30	RBC Ministries	9:12	6	sat
RMOX_GGO1	Gods Great Outdoors COMMERCIAL	25:00	God's Great Outdoors	3:00	5	sat
RMOX_GGO1	Gods Great Outdoors NON-COMMERCIAL	25:00	God's Great Outdoors	3:00	5	sat
RMOX_GGOP	Gods Great Outdoors Promo	0:30	God's Great Outdoors	3:00	5	sat
ROHX_NPS1	National Prayer for Revival	1:00	Revive our Hearts	18:30	1	sat
ROHX_ROH5	Revive Our Hearts Daily Broadcast	24:55	Revive our Hearts	3:15	3	mon-fri
ROHX_ROP5	Revive Our Hearts Daily PROMO	0:30	Revive our Hearts	3:15	3	mon-fri
ROHX_RHPW	Revive Our Hearts Weekly Overview Promo	0:30	Revive our Hearts	3:15	3	mon
ROHX_SHM5	Seeking Him Daily	1:00	Revive our Hearts	18:30	5	mon-fri
ROHX_SHPM	Seeking Him Daily PROMO	0:30	Revive our Hearts	18:30	1	monthly

RYWX_RYW5	Reaching Your World Daily	2:00	Reaching your World	18:30	1	mon-fri
RYWX_RYPW	Reaching Your World weekly PROMO	0:30	Reaching your World	18:30	2	mon
RZIM_JST5	Just Thinking Daily	13:30	Ravi Zacharias Ministries	21:00	3	mon-fri
RZIM_JST5	Just Thinking Daily Regional (REGN)	13:30	Ravi Zacharias Ministries	21:00	3	mon-fri
RZIM_LPT1	Let My People Think Weekly	26:00	Ravi Zacharias Ministries	21:00	4	sat
RZIM_LPP1	Let My People Think Weekly Promo	0:30	Ravi Zacharias Ministries	21:00	7	sat
RZIM_LPT1	Let My People Think Weekly Regional (REGN)	26:00	Ravi Zacharias Ministries	21:00	4	sat
SBAX_SBA5	Susan B Anthony Pro-Life Commentary Daily	1:00	Susan B Anthony Pro-life	18:30	5	mon-fri
TGPX_TGP5	The Garlow Perspective Daily	1:00	The Garlow Perspective	18:30	5	mon-fri
TGPX_TPPM	The Garlow Perspective Daily PROMO	0:30	The Garlow Perspective	18:30	1	monthly
TGPX_TGS1	The Garlow Perspective SPECIAL	25:00	The Garlow Perspective	18:30	1	sat
TGPX_TSPM	The Garlow Perspective Special PROMO	0:30	The Garlow Perspective	18:30	1	monthly
TLRX_TLR5	The Light House Report Daily 1:00	1:00	Campus Crusade	18:30	2	mon-fri
TLRX_TL25	The Light House Report Daily 2:00	2:00	Campus Crusade	18:30	2	mon-fri
TRNP_TMD5	Momento Decisivo Daily	28:30	Turning Point	21:00	4	mon-fri
TRNP_RT65	Route 66	1:00	Turning Point	21:30	3	7 days
TRNP_TPT5	Turning Point Daily	26:00	Turning Point	21:00	4	mon-fri
TRNP_TPP5	Turning Point Daily PROMO	0:30	Turning Point	21:00	4	mon-fri
TRNP_TPT1	Turning Point Weekly	28:30	Turning Point	21:00	6	sat
TRNP_TPP1	Turning Point Weekly PROMO	0:30	Turning Point	21:00	6	sat
TUA__TUA5	The Urban Alternative Daily	25:00	The Urban Alternative	1:32	3	mon-fri
TUA__TUV5	The Urban Alternative View	2:00	The Urban Alternative	1:31	3	mon-fri
TUA__TUA1	The Urban Alternative Weekend	29:30	The Urban Alternative	11:32	3	sat
TUA__TUPW	The Urban Alternative Weekly promo	0:45	The Urban Alternative	1:30	3	mon
TVFX_JPK1	Jonathan Park Radio Drama	25:55	The Vision Forum	0:30	3	sat
UNSH_DES1	Desencadenados Sunday	30:00	Unshackled	17:00	3	sun
UNSH_FRE5	Free Indeed Daily	2:00	Unshackled	18:30	5	mon-fri
UNSH_UNS5	Unshackled Daily	30:00	Unshackled	18:30	5	mon-fri
UNSH_UNS1	Unshackled Sunday	30:00	Unshackled	17:00	4	sun
UNSH_UNP1	Unshackled Sunday PROMO	0:30	Unshackled	17:00	7	sun
UPWX_UPW5	Upwords Daily	1:00	Upwords	12:30	1	mon-fri
UPWX_UPPM	Upwords Daily PROMO	0:30	Upwords	12:30	1	monthly
WAWX_WWD1	Word and the World	14:30	Word and the World	18:30	3	sun
WAWX_WWP1	Word and the World PROMO	1:00	Word and the World	18:00	2	sun
WITW_LSN5	Listen Up! (1:00 Daily)	1:00	Walk in the Word	9:30	3	mon-fri
WITW_WIW5	Walk in the Word - 1 Part	26:00	Walk in the Word	9:30	3	mon-fri
WITW_WIW5	Walk in the Word - Canadian/Border - 1 Part	26:00	Walk in the Word	9:30	3	mon-fri
WITW_WIW5_02pt	Walk in the Word - Salem Version - 2 Parts	25:00	Walk in the Word	9:30	3	mon-fri
WITW_WIPW	Walk in the Word Weekly Promo	0:35	Walk in the Word	23:21	4	mon
WTIX_WTD5	Women Today Daily	1:00	Campus Crusade	18:30	1	mon-fri
WTIX_WTPM	Women Today Daily PROMO	0:30	Campus Crusade	18:30	1	monthly