

## General Responses:

```
@error, "Missing one or more necessary parameters. <command name> command failed.";
```

Note that commas and semicolons between a pair of double quotes will be ignored. <command name> is a formal name of the command. ("Sync Time Date" instead of "sync\_time\_date", for example.)

```
@error, "Unrecognized command [<command>]";
```

The command is not recognized. <command> will be the first token specified from between the at sign (@) and the first comma.

## Play Schedule

Format:

```
@play_schedule,<schedule file name>;
```

Description:

Plays the schedule specified by the first parameter, which is a file name. The file name should contain no path information, should be a file with the ".shd" extension, and can optionally be contained within double quotes. The file should already exist in the Schedules folder on the MX7 machine. Anything else that was previously playing stops.

Example:

```
@play_schedule,"demo.shd";
```

Responses:

```
@ok;
```

```
@error, "Confirm.txt could not be opened. Play Schedule command failed.";
```

```
@error, "Specified file is not a schedule. Play Schedule command failed.";
```

## Play Set

Format:

```
@play_set,<set file name>;
```

Description:

Plays the set specified by the first parameter, which is a file name. The file name should contain no path information, should be a file with the ".set" extension, and can optionally be contained within double quotes. The file should already exist in the Sets folder on the MX7 machine. Anything else that was previously playing stops.

Example:

```
@play_set,"demo.set";
```

Responses:

```
@ok;
```

```
@error, "Confirm.txt could not be opened. Play Set command failed.";
```

```
@error, "Specified file is not a set. Play Set command failed.";
```

## Play Media

Format:

```
@play_media,<media file name>;
```

Description:

Plays the video clip specified by the first parameter, which is a file name. The file name should contain no

path information and can optionally be contained within double quotes. Anything else that was previously playing stops.

Example:

```
@play_media,"Nature Scene.mpg";
```

Responses:

```
@ok;
```

```
@error,"Confirm.txt could not be opened. Play Media command failed.";
```

```
@error,"Specified file is not a recognized media file. Play Media command failed.";
```

## Stop

Format:

```
@stop;
```

Description:

Stops whatever is currently playing, and simply displays a black screen.

Example:

```
@stop;
```

Responses:

```
@ok;
```

```
@error,"Confirm.txt could not be opened. Stop command failed.";
```

## Get Media List

Format:

```
@get_media_list;
```

Description:

Requests that the MX return a list of all files that exist in the machine's Media directory.

Example:

```
@get_media_list;
```

Response:

```
@media_list,<file name>,<file name>, ... , <file name>;
```

Response Details:

Returns a command named "media\_list", followed by a comma-separated list of each file name. Each file is contained in double quotes.

Response Example:

```
@media_list,"Lake.mpg","Forest.mpg","Plains.mpg";
```

## Get Set List

Format:

```
@get_set_list;
```

Description:

Requests that the MX return a list of all files that exist in the machine's Sets directory.

Example:

```
@get_set_list;
```

Response:

```
@set_list,<file name>,<file name>, ... ,<file name>;
```

Response Details:

Returns a command named "set\_list", followed by a comma-separated list of each file name. Each file is contained in double quotes.

Response Example:

```
@set_list,"demo.set","Saturday.set","Sunday.set","Failsafe.set";
```

### Get Schedule List

Format:

```
@get_schedule_list;
```

Description:

Requests that the MX return a list of all files that exist in the machine's Schedules directory.

Example:

```
@get_schedule_list;
```

Response:

```
@schedule_list,<file name>,<file name>, ... ,<file name>;
```

Response Details:

Returns a command named "schedule\_list", followed by a comma-separated list of each file name. Each file is contained in double quotes.

Response Example:

```
@schedule_list,"Spring.shd","Summer.shd","Fall.shd","Winter.shd";
```

### Get Active

Format:

```
@get_active;
```

Description:

Requests the file name of the file that is currently being played, if any.

Example:

```
@get_active;
```

Response:

```
@active_file,<type>,<file name>;
```

Response Details:

Returns the type of the active file (the first parameter) and the file name of the active file (the second parameter). The type can be one of the following (without double quotes): "media", "set", "schedule", or "none". The file name is contained in double quotes, and as with all other file names, does not contain any path information, just the file name itself. If the type is "none", then the file name parameter will simply be empty double quotes ("").

Response Example:

```
@active_file,set,"Saturday.set";
```

Response Example:

```
@active_file,none,"";
```

### Version

Format:

```
@version;
```

Description:

Requests the current version of the backend software.

Example:

```
@version;
```

Response:

```
@ok, 6.44;
```

### Login

Format:

```
@login,<password>;
```

Description:

Checks the password against one stored on the backend

machine, and approves or rejects the login request.

Example:

```
@login, badpassword;
```

Responses (remove quotes):

```
" V "  
" EBP "
```

### Logout

Format:

```
@logout;
```

Description:

Example:

```
@logout;
```

Responses (remove quotes):

```
" V "
```

### Get Schedule File

Format:

```
@get_schedule_file,<filename>;
```

Responses:

Initial Response:

```
@send_file,"<filename>";
```

Waits for further command:

```
@ready;
```

Sends File using the Zmodem protocol

Error Responses:

```
@error, "File '<filename>' could not be opened.";
```

```
@error, "Specified file is not a schedule. Get Schedule File  
command failed.";
```

### Get Set File

Format:

```
@get_set_file,<filename>;
```

Responses:

Initial Response:

```
@send_file,"<filename>";
```

Waits for further command:

```
@ready;
```

Sends File using the Zmodem protocol

Error Responses:

```
@error, "File '<filename>' could not be opened.";
```

```
@error, "Specified file is not a set. Get Set File command  
failed.";
```

### Get Media File

Format:

```
@get_media_file,<filename>;
```

Responses:

Initial Response:

```
@send_file,"<filename>";
```

Waits for further command:

```
@ready;
```

Sends File using the Zmodem protocol

Error Responses:

```
@error, "File '<filename>' could not be opened.";
```

```
@error, "Specified file is not a media file. Get Media File command  
failed.";
```

### **Get Event File**

Format:

```
@get_event_file,<filename>;
```

Responses:

Initial Response:

```
@send_file,"<filename>;"
```

Waits for further command:

```
@ready;
```

Sends File using the Zmodem protocol

Error Responses:

```
@error, "File '<filename>' could not be opened.";
```

### **Get Settings File**

Format:

```
@get_settings_file,<filename>;
```

Responses:

Initial Response:

```
@send_file,"<filename>;"
```

Waits for further command:

```
@ready;
```

Sends File using the Zmodem protocol

Error Responses:

```
@error, "File '<filename>' could not be opened.";
```

### **Get File**

Format:

```
@get_file,<filename>;
```

Responses:

Initial Response:

```
@send_file,"<filename>;"
```

Waits for further command:

```
@ready;
```

Sends File using the Zmodem protocol

Error Responses:

```
@error, "File '<filename>' could not be opened.";
```

### **Send Schedule File**

Format:

```
@send_schedule_file,<filename>;
```

Responses:

Initial Response:

```
@ready,"<filename>;"
```

Receives File using the Zmodem protocol

Error Responses:

```
@error, "Failed to receive '<filename>'";
```

```
@error, "Specified file is not a schedule. Send Schedule File  
command failed.";
```

### **Send Set File**

Format:

```
@send_set_file,<filename>;
```

Responses:

Initial Response:

```
@ready,"<filename>;"
```

Receives File using the Zmodem protocol

Error Responses:

```
        @error, "Failed to receive '<filename>'";
        @error, "Specified file is not a set.  Send Set File command
failed.";
```

### **Send Media File**

```
Format:
    @send_media_file,<filename>;
Responses:
    Initial Response:
        @ready,"<filename>";
    Receives File using the Zmodem protocol
    Error Responses:
        @error, "Failed to receive '<filename>'";
        @error, "Specified file is not a media file.  Send Media File
command failed.";
```

### **Send Event File**

```
Format:
    @send_event_file,<filename>;
Responses:
    Initial Response:
        @ready,"<filename>";
    Receives File using the Zmodem protocol
    Error Responses:
        @error, "Failed to receive '<filename>'";
```

### **Send Settings File**

```
Format:
    @send_settings_file,<filename>;
Responses:
    Initial Response:
        @ready,"<filename>";
    Receives File using the Zmodem protocol
    Error Responses:
        @error, "Failed to receive '<filename>'";
```

### **Send File**

```
Format:
    @send_file,<filename>;
Responses:
    Initial Response:
        @ready,"<filename>";
    Receives File using the Zmodem protocol
    Error Responses:
        @error, "Failed to receive '<filename>'";
```

### **Remove Unused Media**

```
Format:
    @remove_unused_media;
Description:
    Goes through the entire \Media folder, looking for files
    that are not in the currently playing schedule,
    and deletes them.  Presently, it only does so for files
    that are considered some form of video (MPEGs, WMVs,
    Flash, etcetera).  Still images (as well as animated
    GIFS)are ignored.
Example:
```

```
@remove_unused_media;  
Responses:  
  @ok;
```

### **Start Instant Crawl**

Format:

```
@start_instant_crawl,<filename>,<dwell>,<color-  
key>,<transparency>,<speed>,<location>,<background>;
```

Description:

Starts a crawl instantly, hiding all other crawls and rolls, using the Rich Text Format file specified as the crawl text with formatting. The file should be located in the Media folder. This crawl will run for up to <dwell> seconds, or until a @STOP\_INSTANT\_CRAWL instant event is given. It uses <color-key> as the color to turn into 100% transparency, in the format 0xBBGGRR, where BB is blue in hexadecimal (00 to FF), GG is green, and RR is red. <transparency> is a number between 0.0 and 1.0, indicating how translucent the overall crawl is. 0.0 is fully opaque, and 1.0 is fully translucent. <speed> is an integer that describes the number of pixels that the crawl moves per frame. Specify a negative number to get left-to-right movement. <location> is a number between 0.0 and 1.0 that describes the vertical location of the crawl, 0.0 being the top of the screen and 1.0 being the bottom of the screen. <background>, specified similarly to <color-key>, specifies the color to use behind the text. If <background> and <color-key> are the same, then the background will be fully transparent.

Example:

```
@start_instant_crawl,Tornado.rtf,600,0x000000,0.00,3,1.0,0x000000;
```

Example:

```
@start_instant_crawl,Go Home.rtf,14400,None,0.00,3,1.0,0x0000FF;
```

Responses:

```
@ok;
```

### **Stop Instant Crawl**

Format:

```
@stop_instant_crawl;
```

Description:

Stops an instant crawl, if one is currently playing.

Example:

```
@stop_instant_crawl;
```

### **Start Instant File**

Format:

```
@start_instant_file,<filename>,<dwell>;
```

Description:

Starts playing a file instantly, and continues to play it until its dwell time ends or a @STOP\_INSTANT\_FILE event is given. The file can be a schedule file, a set file, or any valid media file, and should already be on the machine in its proper folder. The currently playing schedule will be completely stopped and replaced by this new instant file, and when this instant file stops, the previous schedule will resume playing from the very beginning. The dwell time is in seconds; if this number is 0 or -1, then

the instant file will play indefinitely.

Example:

```
@start_instant_file,Flooding.set,-1;
```

Example:

```
@start_instant_file>Hello.mpg,300;
```

Responses:

```
@ok;
```

### **Stop Instant File**

Format:

```
@stop_instant_file;
```

Description:

Stops an instant file, if one is currently playing, and resumes whatever had been playing previously, starting from the beginning.

Example:

```
@stop_instant_file;
```

Responses:

```
@ok;
```

### **Instant Event Command Serial**

Format:

```
@send_serial_command,<com-port>,<flow-control>,<baud-rate>,<parity>,<data-bits>,<stop-bits>,<data>;
```

Description:

Commands the backend to immediately send out a serial event. The details of the <data> parameter are complex. That information will be detailed elsewhere.

Responses:

```
@ok;
```

### **Instant Event Command TCP**

Format:

```
@send_tcp_command,<port>,<address>,<ignored>,<ignored>,<ignored>,<ignored>,<data>;
```

Description:

Commands the backend to immediately send out a TCP message. The details of the <data> parameter are complex. That information will be detailed elsewhere.

Responses:

```
@ok;
```

### **Instant Event Command UDP**

Format:

```
@send_udp_command,<port>,<address>,<ignored>,<ignored>,<ignored>,<ignored>,<data>;
```

Description:

Commands the backend to immediately send out a UDP message. The details of the <data> parameter are complex. That information will be detailed elsewhere.

Responses:

```
@ok;
```

### **Reboot Machine**

Format:



```
@reboot_machine;
```

Description:

This command will terminate the program, and reboot the machine. The program should be in the Startup directory of the Start Menu, and should resume like normal after the bootup process.

Example:

```
@reboot_machine;
```

Responses:

```
@ok;
```

### Restart MX5

Format:

```
@restart_mx5;
```

Description:

Stops the backend executable, if it is running, and then starts it up again (regardless of if it was previously running or not.)

Example:

```
@restart_mx5;
```

Responses:

```
@ok;
```

### Manage Cache

Format:

```
@manage_cache;
```

Description:

Will manage commands and files associated with those in the Cache directory. This is a somewhat complex topic and will be detailed elsewhere.

Example:

```
@manage_cache;
```

Responses:

```
@ok;
```

### Sync Time and Date

Format:

```
@sync_time_date,<month>/<day>/<year> <24-hour>:<minute>:<second>;
```

Description:

Sets the backend system's time and date. All parameters are numbers; no month names allowed.

Example:

```
@sync_time_date,12/06/1982 23:49:13;
```

Responses:

```
@ok;
```

### Display Power

Format:

```
@display_power,<state>;
```

Description:

Sets the display power to be either on or off by toggling sync. Valid values for <state> are literally either on or off. If anything else is specified, a state of on is assumed.

Example:

```
@display_power,on;
```

Example:

```
@display_power,off;
```

Responses:  
@ok;