CURRENT SHIPPING SOFTWARE:

Software	Version	Rev Date	Notes
Digilink-HD	1.0.1	04/23/15	
DHD-Tools	1.0.1	12/22/14	

TO CHECK THE CURRENT VERSION OF SOFTWARE THAT YOU ARE ON:
You may check the version of the software by going to **File** (within the software), and selecting **About this Software**. Check both the **Version** number and **Rev Date**. You will always want the latest Rev Date.

Digilink-HD On-Air:

```
4-23-2013      First software release
4-26-2013      Updated Backup operation to include BACKUP~MANAGER.exe
5-10-2013      Several misc updates.
               Handle case where no record sound cards exists (mic not plugged in)
5-22-2013      Several misc updates
               Expanded Complex play features
               On Air Logs changed to save and load from file
               Added Random Automated play in Cart 2 and Cart 3
               Added color coded events in the On Air Play List
               Added playlength control for play of Wav files with tags
5-28-2013      Several misc updates
               Games Player updated
               Games Player manually assembled list feature added
5-31-2013      Several misc updates
               Edit Hot Keys features updated
               Manual override of On Air modes added
               Manual mode supports sequential play
7-22-2013      Option for EOM or EOM-Intro overlap modes in Automation
               Upgraded to support 40 jocks instead of 20 jocks
8-27-2013      Improved Memory Usage
               Added Log menu features for use by Arrakis Support
9-4-2013       Added Generic format RDS support for ISPs
               Updated RS232 logging and error recovery
               Updated Time sync (+ - one minute window of sync time)
               Updated Tmed Recorder communication with Digilink~HD
9-5-2013       Updated the Directory playtime to equal runtime for timing
               Stripped unprintable characters from corrupted ID3 tags for ISPs
9-11-2013      Updated draw playlist to handle line one selected on certain PCs
               Changed Windows Message box for a custom message box
9-16-2013      Updated Expiration date and Date lock features
               Changed Manual Game to operate in parallel with the Play list
9-20-2013      Updated loading Directory to support two more audo formats
               Start-stop Sat hours loads to Break events
               Reload Hour button added to restart at the beginning of the hour
               Source event stopped when stop Automation
9-23-2013      Changed FBreak event in a Game play list to run for 5 hours
9-25-2013      Added Application restart when Committ Size reaches 1.25GB at 3am
10-5-2013      Added Display-change End of Audio File Processing Setting to Setup
10-9-2013      Updated End File Processing fade function
10-16-2013     Updated Autofill in Automation to use in date time type 'A' first
               Updated Automation playlist display during last event
10-28-2013     Optimized sat source switching speed
10-29-2013     Updated Auto-restart at 1.25GB at 3am (1.80GB now) Committ Size
               Saving Committ Size to log hourly
11-7-2013      Updated Automation autofill if audio file does not exist
11-11-2013     Updated Loading the Directory
11-15-2013     Updated Game start switcher control
12-3-2013      Updated Playlist player to stop (NEXT)  a 'Timed' event
               Updated the Comport to recover PG and log errors
```

```
                Added C:\DHD\Setup\Do Not Reset Comport.txt control file
12-4-2013       Updated play of libraries smaller than 100 files
12-5-2013       Upgraded Bridge RS232 comport routines
12-9-2013       Changed Logging to support simultaneous open aps (Air & Tools)
12-10-2013      Updated to support Mixed case cart numbers.
12-16-2013      Updated Manual Stop of play events
12-17-2013      Logging USB interrupted and restored communications
                Optimized Internal Timer1 efficiency to reduce PC loading
                Optimized Internal Autotimer efficiency to reduce PC loading
                Optimized Internal Gametimer efficiency to reduce PC loading
12-18-2013      Updated logging to not log audio play if USB has been lost
                Enabled comport polling every 60 seconds (!PG ?!)
12-19-2013      Added loggin of Bridge silence sensor for Customer service
                Changed 'On Air Total Log.txt' from 5,000 to 10,000 events
12-20-2013      Changed Playlist draw handler for -1 events
                Updated Audio players for handling Stop errors
1-2-2013        Updated Logging for Time shifts in Automation playlist
                Updated Logging for Directory loading
                Updated the Automation playlist to handle bad audio files and
                  return to the Satellite
                Updated the Automation playlist to Autofill bad audio files
1-9-2013        Updated Sources in Play list during Games
1-10-2014       Made opening a second instance of Digilink-HD not close the Aux aps
                Changed logging time jumps from 3 seconds to 1 second
1-13-2014       Made Process Affinity default to all processors.
                Set startup Affinity in C:\DHD\Setup\Affinity.txt. (1-15)
                (1= core 1, 2= core 2, 3= cores 1 & 2, 4= core 3, 8= core 4, ...)
1-14-2014       Added feature to log all Application Rev dates in 'DHD\Logs' folder.
                Filename is 'Current DHD Applications.txt'
                Added feature to log the Version and Rev date at opening
1-15-2014       Added feature to test for and auto-open the Directory~Manager if
                it has been closed.
1-17-2014       Added 'No Drop' option to Playlist. If the clock name assigned to
                the hour has a ^ as the first character, then that hour will not drop
                the remaining events in the play list when the next hour is started.
                The events will be moved to the start of the new hour and the
                scheduled events for the new hour will be pushed back.
1-22-2014       Added feature in Library search to auto-insert the time format
1-27-2014       Feature... added DHD-tools on air operation. If a Bridge is not
connected
                but a DHD-tools USB stick is connected, the software will open in
                the DHD-tools on air mode. This is a basic one hour on air play mode
                without Bridge or multihour automation functionality. The playlist
                player loads from the one week schedule but playback ends at the end
                of each hour.
1-30-2014       Updated time display in Play list when automation is off.
2-18-2014       Changed display in Play list when play is off to display the list
2-19-2014       Updated Cart rotations from 2-18-2014 change
2-24-2014       Updated Saving of Hot Key pages
3-11-2014       Added 'NAB' demo mode for factory demonstration purposes
3-11-2014       Recording~Manager (Rev 3-11-2014) updated to simultaneous play
```

```
                 and Record
4-2-2014         Optional additional cost feature added for display of Current
                 weather.
5-1-2014         Added Orban metadata interface.
                 Add file C:\DHD\Streaming Services\Orban enabled.txt to enable
                 Orban metadata output. The metadata text string will be written to
                 C:\DHD\Streaming Services\Orban.txt. For RS232 serial output, create
                 a file C:\DHD\Streaming Services\Streaming Com port.txt with line 1
                 in the text file being the Comport number (ie: 1) and line 2 in the
text
                 file being the baud rate of the connected device (ie: 38400).
                 The metadata will be Title and Artist for type 'M' audio events. For
                 non-type 'M' audio events, the output will be the 'Call letters' and
                 'Station Slogan' from the 'Station Contact' page in 'Setup'.
                 Metadata format: Artist=Artist Here^Title=Title Here[LR/LF]
                 where '^' is the field delimiter between Artist and Title.
5-5-2014         Update loading Directory.dig library file if error during the load
                 process.
5-8-2014         Updated 5-8-2014 Directory~Manager.exe to include AV title and artist.
5-13-2014        Updated 'Find Bridge Com Port' submenu under Bridge main menu.
                 Added display of the Selected Comport and a List of Com ports.
5-16-2014        Added Windows Sound Card list Service logging for Test.
                 Handled Application opening without a Bridge.
                 Added Service logging of Inserting or Removing USB devices.
5-21-2014        Added support for Sound cards assignments in Window 8.
8-6-2014         Updated RDS and Streaming service Com port setup.
                 Updated Playlist move up and down buttons to move past the 'Next
                 Hour' barrier.
8-11-2014        Added an 'Underscheduled' option to the playlist.
                 This option complements the 'No Drop' option (Rev: 1-17-2014).
                 If the current hour clock name starts with a '~' then an
underscheduled
                 hour will pull audio events from the next hour. It will not pull
                 Timed or Fbreak events because they belong in the scheduled hour.
                 Also, if the current hour clock name starts with a '&', then BOTH
                 the 'No Drop' and 'Underscheduled' options are enabled.
                 Note: while these options provide greater flexibility in scheduling,
                 they are not recommended for normal operation because under and over
                 scheduling can lead to dead air, events playing at wrong times, timed
                 events being missed, etc.
9-3-2014         Updated RDS header for Com port output.
9-10-2014        Updated Play list to display actual Audio Types instead of Imported
                 audio types.
11-10-2014       Made Auto-delete of Voice tracks a setup option. Was enabled by
default.
                 Voice tracks that have played are normally deleted when the software
                 is closed. In Setup, it is now possible to 'disable' the autodelete
                 feature. If disabled, the user must then manually manage the deletion
                 of voice tracks.
11-11-2014       Supports DHD-tools version on this date and later.
                 In DHD-tools, each individual cart rotation can be set to be either
```

```
               (1) Random, or(2) Sequential. This is done in the DHD-tools Library
screen.
               The first cart in the rotation will have this data stored with the
file.
               Type 'S' spots are always sequential. Type 'M' music are always
random.
4-13-2014      In Setup, added 'Auto-test for Bridge Unlock' option. Default is off.
               If enabled, then the software will go to the internet and try to find
               the Bridge Serial Number unlock code and expiration data every morning
               at 2:00am.
4-19-2014      Added support for Auto-record level setting for new Bridge codec.
11-25-2014     Updated Bridge authorization support for type 'D' Bridges.
12-11-2014     Updated Auto-deleting of Voice Tracks.
12-23-2014     Updated Auto-deleting of Voice Tracks to delete the '\Logs\VT Play
Log.txt'
               file if Auto-delete is disabled in Setup. The delete occurs when the
               software is opened or the setup is changed.
2-11-2015      Updated Manual hour play list transitions.
2-25-2015      Automation Play Test feature added.
               Enabled with 'C:\DHD\Setup\Extended Play Logging.txt' file.
               Should only be used by authorized Arrakis service personnel.
3-2-2015       a) New Setup option... 'Separate Automation Player'.
               Use only at the direction of Arrakis customer support.
               This option removes the automation audio player from the Digilink-HD
               application and plays the Automation play list through the new
               application 'AUTOMATION~PLAYER.exe' located in the
'C:\DHD\Applications'
               directory. A new 3-2-2015 version of 'AIR~MONITOR.exe' is required.
               All other audio players such as Hot Keys, Cart players, Games, etc.
               continue to play through the Digilink-HD application.
               b) Updated the Manual play list, when crosses the top of hour, to drop
               all events from the previous hour and load the play list from the
             start of the next hour.
3-11-2015      Updated startup to unmute and set to max volume all play sound cards.
3-18-2015      Updated Push hours to push a Break event to the next hour if it is
               sitting at a Break event in the player.
3-31-2015      Updated startup to support both the new type of Arrakis codec named
               'USB AUDIO  CODEC' and the old type named 'USB Audio CODEC'.
4-23-2015      Updated the Expiration warning to appear 2 days before the expiration
               date instead of 7 days before the expiration date.
```

DHD-Tools:

4-23-2013　First software release

4-26-2013　Updated Backup features

5-10-2013　Several updates
>
> Will operate without a USB key on an authorized On Air PC
>
> Handled PC where no record sound cards (or mic plugged in)
>
> No longer message on open if no Record encode format is set.
>
> Must be manually set when start using recorders.

5-30-2013　Several updates

7-10-2013　Updated memory usage to reduce Commit Size requirements
>
> Updated Application close / Exit operation

7-22-2013　Changed number of Network Jocks from 20 to 40
>
> Corrected Report screen Digilink sort display zero length

9-5-2013　Updated screen open to accept Taskbar not being hidden
>
> Updated Recorder-editor to message if no codec assigned
>
> Updated Recorder-editor to select non-MP2 codecs
>
> Updated Recorder-editor Save when autolevel only
>
> Updated Paste Clock Day
>
> Updated Game menu display of a single game
>
> Updated save of Music Category report
>
> Updated Directory playtime to equal runtime for timing

9-19-2013　Updated Timed Recorder scheduler. Synced with actual Recorder.

9-23-2013　Changed Digilink Traffic export format for spots to use Played date
>
> with the Scheduled times.
>
> Updated Import merge into a Clock if events after the last clock event

9-24-2013　Updated Music clock w SongnN events, rotate, then import traffic

10-6-2013　Updated Library Auto-edit button compression extension assignments
>
> Default user password changed to 1234

10-12-2013　Updated play of complete Voice track mix to ignore ID3 metadata
>
> Updated play of wav files throughout application to ignore ID3 metadata
>
> Updated USB Key dongle identifaction and authorization

11-6-2013　Updated Voice track player for play of first file with EOM

11-7-2013　Updated Library Mass rename to update the Directory~Manager

11-11-2013　Updated various Directory functions

12-9-2013　Changed Logging to support simultaneous open aps (Air and Tools)

12-12-2013　Updated Mass Delete of audio files in the Library Manager to update the
>
> Directory~Manager

12-16-2013　Updated Manual Stop of audio events in Hot Keys, Cue Player, etc.
>
> Updated functionality of 'Merge File into Schedule' import button.

12-19-2013　Change auto-naming of Voice tracks (VT) to auto number 1,000-999,999 and
>
> save the number to a setup file for use by networked Tools software.

1-2-2014   Updated Logging for Directory loading
 Updated how Clock changes are saved for the 'Pro Clock Assignments' folder
 Logs Schedule imports to ...\Logs\Import Log.txt
1-3-2014   Added a Natural Music Report in the Music window
 Updated Library Manager mass Cart number assignment feature
1-7-2013   Updated Cue player stop for more than ten events
1-9-2014   Removed Load Library test feature from the Library Manager
1-17-2014   Feature, displaying artists in the Voice tracking screen
 Feature, added Artist field to the 'Schedule Reports' reports
 Feature, Tools will now log the Computer name and User name to the
 networked On Air PC log whenever it logs onto the PC or logs off
 (or closes Tools).
 Feature, logs changes to the Air Schedule (Clocks)
1-20-2014   Updated Assign clocks when exit and enter the Clocks screen
1-21-2014   Testing and removing dashes (-) in a Clock name
1-23-2014   Updated two screen displays
3-20-2014   Music Scheduling updated and Reports added
 Music Help updated
3-25-2014   NAB Demo mode added.
 Also, now saves the USB Key serial number to \Setup\USB Key...txt
4-3-2014   New DHD-live support in DHD-tools. Place a file named DHD-live.txt
 in the C:\DHD\Setup folder and DHD-tools will open to the Library
 Manager screen with Menu access to the Reports~Manager screen
 for reporting and traffic reconciliation.
4-24-2014   Updated Library Mass rename for numeric cart numbers
7-22-2014   Updated DHD-live support in DHD-tools to operate without the
 need for a USB key.
11-10-2014 In the 'Edit Schedule' screen, added a 'Save hour' schedule and a
 'Load Hour' schedule button.
11-11-2014 For Cart Rotations:
 Type 'S' spots are always sequential.
 Type 'M' music events are always random.
 All non-S and non-M type audio events...
 Each individual cart rotation can be set to be either
 (1) Random, or(2) Sequential. This is done in the Library screen.
 The first cart in the rotation will have this data stored with the file.
 In the Library screen, select the first cart in the rotation which
 must have a suffix of '-1' or '-01'. Example: 1000-01. In the data
 panel at the bottom of the Library two buttons will become visible.
 'R' and 'S'. 'R' is for random and 'S' is for sequential. Click on the
 desired button and then click on the 'Save' button to save the data
 to the file.

ARRAKIS SYSTEMS

12-22-2014 For Clearing an entire schedule hour. If Voice Tracks are present,
a Message dialog will ask if the Voice Track audio files should be