



## **iHam on iRye 2.0**

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### **What is iHam on iRye?**

iHam on iRye is a set of three applications that allow iTunes to be controlled from a remote computer over a local area network. iHam on iRye will allow a remote computer complete access to iTunes playlists and other features.

Note that iHam on iRye does NOT provide audio streaming capabilities. The sound you hear will still come from the same computer iTunes is installed on and not the remote computer.

The package consists of three applications:



*Figure 1 – The iHam on iRye Applications*

The **iHam on iRye iClient** is the actual remote-control application. It displays information regarding the currently playing track in iTunes and provides controls for accessing iTunes playlists and controlling iTunes playback. This application is used on the remote computer.

The **iHam on iRye iServer** is the application that performs the actual communication with iTunes after receiving a request from the iClient over the network. On Mac OS X, this application is a background-only application that does not appear in the dock. It resides on the same computer as iTunes.

The **iHam on iRye iAdmin** is used to configure, activate and deactivate the iHam on iRye iServer.

## **System Requirements**

### **Classic**

The iHam on iRye iClient requires Mac OS 8.6 or higher with CarbonLib 1.6 or higher. It also requires a minimum of 8 MB of free RAM.

The iHam on iRye iAdmin and iServer applications require Mac OS 9.0 or higher with CarbonLib 1.6 or higher. A minimum of 16 MB of free RAM is also necessary. The iServer is compatible with iTunes 2.0.4 only when running under Mac OS 9.x.

### **Mac OS X**

Mac OS X 10.1 or higher is required for all applications. iTunes 2.0.4 is required, but iTunes 3.0 or higher is recommended. No earlier versions of iTunes are supported.

## General

iHam on iRye is intended for use over a TCP/IP-based local area network. Although iHam on iRye will function over the Internet, this configuration is *not* supported. Also be aware that all iHam on iRye communications is unencrypted plain text, including login information.

## Installing the iHam on iRye 2.0 Public Preview

The iHam on iRye iClient should be copied to the remote computer. The iHam on iRye iServer and iHam on iRye iAdmin should be copied to the same computer as iTunes. None of the applications need to be installed in any particular location. However, on Mac OS X, it is recommended that the applications be copied to the Applications folder.

To uninstall iTunes, simply drag the three application icons to the trash.

## Upgrading from a previous version of iHam on iRye

The iServer and iAdmin applications from iHam on iRye 2.0 and iHam on iRye 1.x can not be installed on the same computer as this will cause various conflicts including an inability to log into the server. Please be sure you have completely removed the iServer and iAdmin applications from iHam on iRye 1.x before using iHam on iRye 2.0. It should also be noted that Version 1.x clients cannot connect to a 2.0 server and a 2.0 client cannot connect to a 1.x server.

## Checking for new versions of iHam on iRye

You can check for new versions of the iHam on iRye software from directly within the iHam on iRye iClient application. When the iClient is the frontmost application, simply select "Check for Updates" from the application menu (Mac OS X) or the Apple Menu (Mac OS Classic).



Figure 2 – Selecting “Check for Update...”

The client will check for new versions of the software and report back what it found. If a new version is available, clicking the "Download" button will take you to the iHam on iRye software page on the SearchWare Solutions website.

## Using iHam on iRye 2.0

### Configuring the iHam on iRye iServer

The first step is to configure the iHam on iRye iServer. You will need to define users and configure what network port the iServer will listen to (if desired). This is accomplished with the iHam on iRye iAdmin application.

Launch the iHam on iRye iAdmin application. In the window that appears, click on the "Configure" button in the toolbar. In the field labeled "Listen to port:" enter the port you want the iServer to listen to. You can accept the default setting if you would like, or you can set this to any other value that is appropriate for your network. If you are unsure if you need to change this value, simply leave it as the default.



Figure 3 – Configuring the Server Port

Before you can connect to the iServer from the remote computer, you need to also define at least one user. To define a server, click the "Users" button in the toolbar of the iAdmin application. Click the "Add" button to add a new user. In the window that appears, enter a username and password for the new user. Usernames and passwords are *not* case-sensitive.

When you have entered this information, click the "OK" button. The new user now appears in the user list. Repeat this step for all users you want to have access to this iServer. You can also use the "Edit" and "Remove" buttons to edit or delete selected users. It is important to note that usernames and passwords for iHam on iRye are stored in simple text files and are *not* encrypted. Therefore, it is important that you only use usernames and passwords that you do not mind being available to others.



Figure 4 – Configuring Users

Note that newly added users will not be able to log into the server until the server has been stopped and restarted. You can automate this process by clicking the "Apply Now" button.

The final step is to note the IP address of the iServer computer. You can find the IP address for the iServer computer in the "Network" Preference Panel in the System Preferences application of Mac OS X or in the TCP/IP control panel in Mac OS 8/9. Please note that this assumes you know how to properly set up your computer on your network. This document will make the assumption that all computers are properly configured for TCP/IP connections on your network.

### Starting the iServer

Once users have been defined, you can start the iServer. Click on the "Status" button in the toolbar of the iAdmin application. The window will change to reflect the current status of the iServer. You can start the iServer by clicking on the "Start Server" button. After a moment, the window should display a message that "The iServer is currently running." You can stop the iServer by clicking the "Stop Server" button.



Figure 5 – The "Start Server" Button



Figure 6 – The "Stop Server" Button

Note that, the first time the iAdmin application is launched, it will perform a quick search for the iServer application. If it does not successfully find the iServer application, the "Start Server" button will not appear. Instead, a button labeled "Find Server..." button will appear.



Figure 7 – Finding the iServer

Click this button and manually locate the iServer application. Once you have located the iServer using this method, the iAdmin application should always remember where the iServer application is located.

### Connecting to the iServer

On the remote computer, launch the iHam on iRye iClient application. The iClient window will appear. Click the button in the upper-left-hand corner of the iClient window with the globe icon.



Figure 8 – The Connect Button

In the window that appears, enter a username and password that is defined in the iAdmin application (again, remember that usernames and passwords are *not* case-sensitive). You will also need to enter the IP address of the iServer computer. If you defined a port other than the default port in the iAdmin application, you need to type a colon (":") after the IP address and then type the port number that you defined in the iAdmin application.

A rectangular dialog box with a light gray background. At the top, it contains the text: "Enter the IP address, login name and password for the iHam on iRye server you wish to connect to." Below this text are three input fields: "IP Address:" with the value "192.168.1.2", "Login:" with the value "Frank", and "Password:" with a series of ten black dots. Below the password field is a checkbox labeled "Add to Favorites List". At the bottom of the dialog are two buttons: "Cancel" and "Connect". A mouse cursor is pointing at the "Connect" button.

Figure 9 – The Login Panel

Click the "Connect" button. The iClient will attempt to connect to the iServer. If the iClient is successful, after a few moments the display will change to reflect the current status of iTunes. If iTunes is not running on the iServer computer, click the button shaped like the symbol on the power button on your Macintosh.



Figure 10 – The iTunes Toggle Button

iTunes should launch on the iServer computer and the display should update to show the currently selected playlist. You can now use the play, forward and backward buttons just as you would if you were using iTunes itself.

### Using the iClient

Once you have connected to the iServer, you can control nearly every playback function of iTunes from the remote computer. You can change playlists by selecting the desired playlist from the popup menu just above the song list. You can adjust playback volume by using the volume slider just above the playlist popup menu. You can jump to any song in the currently displayed playlist by double-clicking it in the song list at the bottom of the window.

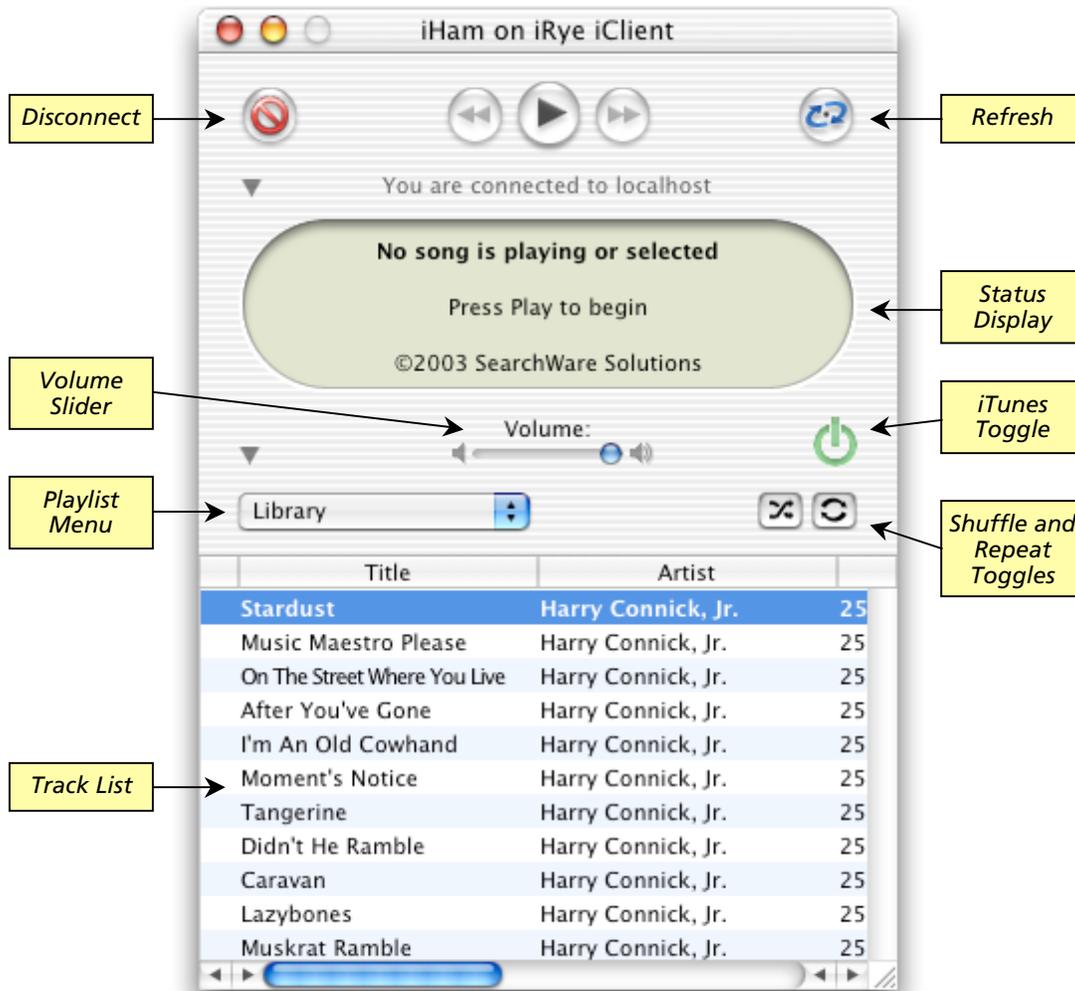


Figure 11 – The iClient Window

### Changing Track and Playlist Playback

Along with normal playback options, it is also possible to toggle iTunes shuffle option from the iClient window. To activate or deactivate random-order playback, simply click the Shuffle button. Note that when clicking this button, the client will reload the playlist to show you the new playback order for the playlists tracks.

The iClient also provides the ability to repeat a playlist or repeat a single track. This is accomplished by clicking on the Repeat button, just to the right of the Shuffle button. Clicking on this button will toggle between the three repeat states (off, entire playlist, single track) and its icon will change appropriately.

## Changing the iClient's Preferences

The iClient is very configurable, allowing the user to adjust the iClient's behavior to suit his or her preferences. Like most other applications, the iClient's preferences can be modified by selecting "Preferences" from the application menu (Mac OS X) or from the "Edit" menu (Mac OS 8/9). The Preferences window will appear.

You will immediately notice four tabs. The first tab, labeled "General", currently only has one option.



Figure 12 – General Preferences

When checked, the "Scroll Track List" option will force the track list to scroll in order to make sure the currently playing track is always visible. When this option is off, the track list will not scroll and it is possible that the currently playing track will not be visible.

The second tab, labeled "Synchronization", allows the user to configure how often the iClient will update its information (such as currently playing track) from the iServer.



Figure 13 – Synchronization Preferences

The minimum value allowed in this field is one minute. Note that the iClient will automatically update itself whenever you change playlists or change the volume. It should also be noted that synchronization will not occur if the client is in the process of completing a previous update when the next update interval occurs.

The tab marked "Favorites" allows the user to define favorite iServers to provide quick access in the login window.

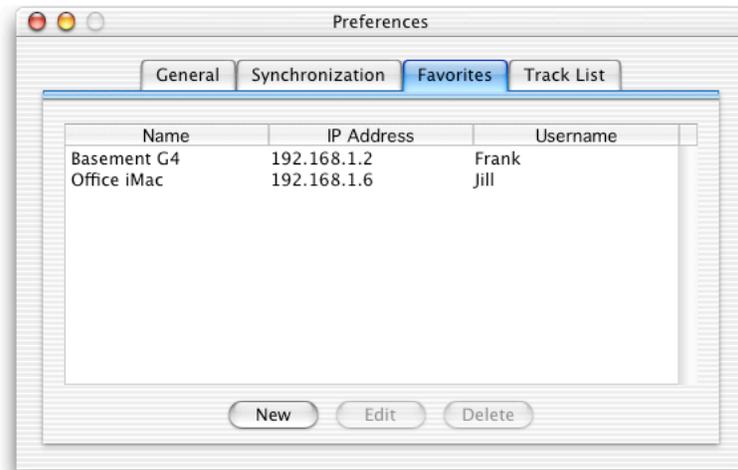


Figure 14 – Defining Favorites

This works very similarly to defining users in the iAdmin application. The only difference is the specific information required. When favorites are defined, they can be selected from the popup menu in the login window to automatically populate the IP address and Username fields.

The tab marked "Track List" allows you to define what information is displayed in the track list in the main iClient window.



Figure 15 – Track List Preferences

It is possible to show and hide various columns of information in the track list. Note that when fewer columns are displayed, scrolling will be faster in the track list. There is also an option to allow the track list columns to be manually resized, allowing the user to display more information in a particular column.

Preferences take effect the moment you close the Preferences window.

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