

System Requirements and Installation

Reliabit Multicast Data Distribution System

Version 1.3.x

6-26-2003

Hostname

Make sure the computer you are going to install the MDDS system on has its hostname set to something other than 127.0.0.1 or localhost.

The computers host name should resolve to an IP address that other computers on the network can use. To see what the computers hostname is, log into the computer and type "hostname" . The hostname program will return the hostname of the computer.

```
> hostname
```

The named returned by hostname should not be localhost. On linux, you can change the hostname's address by editing /etc/hosts. On the mac, you can change the hostname's address by using the Netinfo program. Netinfo is found in /Applications/Utilites/Netinfo Manager. In Netinfo, the hostname should be under "machines".

Mac OS X Installation

The Reliabit Multicast Data Distribution software requires Macintosh OS 10.2.x operating system. The package installer will install the program and it will be run in the background as a service. The service will start on boot. Do the following steps to install the program:

1. Acquire the mdds.pkg package installer.
2. Double click on the package installer. Follow the installers instructions.
3. Enter an admin password requested by the installer.
4. Agree to the license terms.
5. Click install. The files will be installed into your Macintosh.
6. Restart your computer or from the command line logged in as root type the following:
"/Library/StartUpItems/mdds/mdds start"
"/Library/StartUpItems/mdds/mdds_relay start"

Red Hat Installation

The Reliabit Multicast Data Distribution software requires Red Hat 7.3 operating system. A rpm will install the program and it will be run in the back ground as a service. The service will start on boot. Do the following steps to install the program:

1. Acquire the mdds-1.3.x-1.i386.rpm Red Hat package manager installer.
2. To install the rpm type "rpm -i mdds-1.3.x-1.i386.rpm"
3. To start the program type:
"/etc/rc.d/init.d/mddsd start"
"/etc/rc.d/init.d/mdds_relayd start"

Network Configuration

The Reliabit multicast data distribution system requires that the routers on your network be multicast enabled. Consult your router documentation to multicast enable your intranet. Your computer will need a multicast route. You can add a route like the following example:

```
route add -net 224.0.0.0 netmask 240.0.0.0 dev eth0
```

This will add a route for the ethernet device eth0. Consult your system documentation about setting routes.

Here is a similiar example on OS X:

```
route add 224.0.0.0 192.168.1.1 -netmask 240.0.0.0
```

This assumes you have a gateway of 192.168.1.1 .

Login

To login to the web interface use the following URL:

```
https://localhost:7778/
```

The default user name and password is:

```
user: admin  
password: bubbl3h3@d
```

On first login you will need to register the product.

Note: You will need to change the admin password. This can be done from the preferences window under the users section. Click on the "prefs" button to open the preference window. Enter the password for the admin user and click the apply button. Close the preferences window. Click on the "logout" button. Open the https://localhost:7778/ and relogin.

Registration

Assuming you have logged into the web interface, to regiseter the Reliabit Multicast Data Distribution System click on the "prefs" button in the upper right hand corner of the start up window. A preference window will open. Scroll to the bottom of the window. You will see a section called "License". Enter the user name and key provided to you when you purchased the product. Click the "Apply" button. Close the window by clicking the "OK" button. Now restart the server. Click the "Restart" button. A window will pop up asking if you want to restart the server. Click "OK". A page will be displayed indicating the server is restarting. Click "OK" to return the restarted server after a few seconds. The product should now be fully functional and registered assuming you entered a valid license code.

Setting Up SSL

Reliabit recommends that you create your own unique private ssl key and ssl certificate. It is recommended that you get it signed from a trusted certificate authority. You can create your own unique key and certificate by using the following commands:

First create a new private key:

```
>openssl genrsa -des3 -out priv.key 2048 ( for an encrypted key which will ask for a password )
```

or a nonencrypted key

```
>openssl genrsa -out priv.key 2048 ( for an encrypted key which will not ask for a password )
```

Next create a certificate:

```
>openssl req -new -x509 -days 365 -key priv.key -out mycert.crt
```

note: the common name setting should match your computers hostname.

To see details type the following:

```
>openssl x509 -noout -text -in mycert.crt
```

On linux place these keys in the following path:

```
/opt/reliabit/mdds/keys/
```

On Mac OS X place these keys in the following path:

```
/Library/reliabit/mdds/etc
```

Optionally, you can change the path settings from the "prefs" button in the main window. This will open a preferences window. Goto the section that says security. There is a key file path and a certificate file path. Point these paths at your generated files. Click the "Apply" button. Click the restart button in the main window for the new certificates to be used.

Note: Initial versions of Apple's Safari web browser require a CA (Certificate Authority like Verisign) to sign the certificate. A self signed certificate will not work.