



Intel NetStructure® Host Media Processing Software Release 1.5 for Linux License Manager

Administration Guide

June 2005



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Revision History

This revision history summarizes the changes made in each published version of this document.

Document No.	Publication Date	Description of Revisions
05-2353-002	June 2005	<p>Global: Revised the procedure for starting the License Manager wherever it appeared, including in Starting the License Manager Menu Interface. Added an illustration of the main licensing menu in each procedure where it is mentioned.</p> <p>Obtaining a License: Added 1 channel of multimedia to the description of the verification license in Table 1. In Table 3, for Enhanced RTP, changed the list of coders to “all G.723.1 and G.729 coder types.” Added the multimedia feature to Table 3.</p> <p>Activating Licenses on Multiple Computers: The title of this chapter has been changed. The former title was “Activating Licenses in a Multi-Node Environment.”</p> <p>Changing the HMP IP Address: Added initial step of stopping HMP services and final step of restarting HMP services.</p> <p>Removing a User-Selected HMP IP Address: Added initial step of stopping HMP services and final step of restarting HMP services.</p> <p>Stopping and Restarting the HMP Services: Revised procedure.</p> <p>Obtaining a License: Added the Multimedia feature to Table 3.</p>
05-2353-001	September 2004	Initial version of document.





About This Publication

This preface provides information about the purpose, audience, and overall structure of this publication and well as listing related information. This information is contained in the following sections:

- [Purpose](#)
- [Intended Audience](#)
- [How to Use This Publication](#)
- [Related Information](#)

Purpose

This publication describes how to perform the various tasks related to obtaining, activating, and otherwise working with Intel NetStructure[®] Host Media Processing (HMP) Software license files and also how to manually stop and restart HMP services. The licensing tasks are performed using a License Manager application, which can be used via a menu or command line interface. Details about each License Manager interface are provided in separate reference chapters.

Intended Audience

This publication is intended for:

- System Integrators
- Toolkit Developers
- Independent Software Vendors (ISVs)
- Original Equipment Manufacturers (OEMs)

How to Use This Publication

To use this publication, look up the task you want to perform in the [Contents](#) or [Chapter 1, “Administration Overview”](#) and click the link to go to that chapter. If you want to know more about the License Manager application, refer to [Chapter 12, “License Manager Menu Interface Reference”](#) or [Chapter 13, “License Manager Command Line Interface \(CLI\) Reference”](#), depending on which interface you want to use.

This document also contains a preface (this chapter), a [Glossary](#), and an [Index](#).

Related Information

The following documents and web sites provide more information:

- *Intel NetStructure® Host Media Processing Software Release 1.5 for Linux Installation Guide* - This document describes how to install the HMP Software.
- *Intel NetStructure® Host Media Processing Software Release 1.5 for Linux Release Guide* - This document provides information about the release such as product features and system requirements.
- *Intel NetStructure® Host Media Processing Software Release 1.5 for Linux Release Update* - This document addresses release issues such as known problems and documentation updates.
- For technical support, go to <http://developer.intel.com/design/telecom/support/>.
- For information about Intel NetStructure Host Media Processing products, go to <http://www.intel.com/design/network/products/telecom/software/index.htm#hmp>
- For information about Intel® telecom products, go to <http://www.intel.com/design/network/products/telecom/index.htm>.
- An evaluation license for HMP Software is available from <http://www.intel.com/network/csp/products/hmp/8399web.htm>. The procedure for obtaining an evaluation license is given in Section 2.3, “Obtaining an Evaluation License”, on page 15.
- To obtain a trial, purchased, or emergency replacement license for HMP Software, you will need to contact an Intel authorized distributor. For a list of authorized distributors, go to <http://www.intel.com/buy/networking/telecom.htm>. The procedure for obtaining these licenses is given in Section 2.4, “Obtaining a Trial, Purchased, or Emergency Replacement License”, on page 16.

This chapter provides an overview of the tasks and tools involved in obtaining and using HMP Software licenses:

- [Common Administration Tasks](#) 11
- [Administration Tools](#) 12

1.1 Common Administration Tasks

Before you use the HMP Software, you must obtain a license file¹ containing HMP license data. An HMP license is a file containing a combination of call control and media processing channels. You can obtain a license file either before or after you install the HMP Software, but you need to obtain a license file before you can proceed with using the HMP Software.

Once you have installed the HMP Software and downloaded a license file to your computer, you must activate the license on the target system using the License Manager. The License Manager offers both a menu interface and a command line interface.

Following are the common administrative tasks performed using the License Manager. Click on a task to go to the chapter that describes it.

[Obtaining a License](#)

You need to decide which type of license you want and get it. This chapter describes the various types of licenses and how to get each type.

[Activating a License](#)

Once you've obtained a license, you must activate it using the License Manager application.

[Activating Licenses on Multiple Computers](#)

It may be useful to do this when there are a large number of licenses that need to be activated and where it is more efficient to automate the license activation through a script or utility program rather than performing the activations manually.

[Viewing Details About the Active License](#)

The information you can view includes the serial number, MAC address, license type, expiration date, PCD file name, and a description of the features enabled by the license (such as conferencing, enhanced RTP, RTP G.711, speech integration, T.38 fax termination, and voice).

[Viewing All Available Licenses](#)

When you execute this command, a list of the license files (XML files) that are in the default directory appears (the default directory is */usr/dialogic/data*). You can select a file, change the directory, or to return to the main menu

1. A verification license is installed with the HMP Software, activated and ready to use, but this license is only intended to be used for verifying that the HMP Software installation was successful (refer to the Installation Guide for the HMP Software for information about the verification demo).

Switching to a Different License

If you have more than one license, you can switch from one to the other.

Displaying the HMP IP Address

The License Manager displays the IP address being used by HMP. The host that HMP is on may have multiple valid IP addresses, but the default HMP IP address is the IP address that corresponds to the MAC address used as part of the HMP license. You can specify a different IP address using another License Manager command (see next task).

Changing the HMP IP Address

You must adjust the HMP IP address if you plan to use a different network card for IP telephony than the licensing network card. You can use the License Manager to specify an IP address other than the default (the default HMP IP address is the IP address that corresponds to the MAC address used as part of the HMP license).

Removing a User-Selected HMP IP Address

You can remove (discontinue use of) the user-specified IP address, which switches the system back to using the default IP address (the default HMP IP address is the IP address that corresponds to the MAC address used as part of the HMP license). This command will not have any affect on the system if the user-specified IP address has already been removed. The default IP address cannot be removed.

Stopping and Restarting the HMP Services

After you install the HMP Software, you start the HMP services as described in the Software Installation Manual. After that, any time you reboot your system, HMP services will be automatically started. However, if you need to manually stop and restart the HMP services, you can use this procedure.

1.2 Administration Tools

To use HMP Software, you need a license file. License files can be generated for a customized combination of features (refer to [Chapter 2, “Obtaining a License”](#)). The license file provides the configuration for the HMP system. The License Manager application allows you to activate and work with these license files.

The License Manager application can be used with either of two interfaces, which are described in the chapters listed below. Click on the chapter to go to it.

[Chapter 12, “License Manager Menu Interface Reference”](#)

The menu interface gives you a choice of options in menus and sub-menus. To perform a task, you enter a number that corresponds to an item in a menu. This interface is easy to use and does not involve much typing.

[Chapter 13, “License Manager Command Line Interface \(CLI\) Reference”](#)

With the CLI interface, you perform tasks by typing in commands and options for those commands. You must either know the command or access the help (see [Section 13.6, “Getting Help”](#), on page 49) to find out how to enter a command. Commands can be entered in a long or short format. This interface involves more typing, but offers a quiet mode (see [Section 13.3, “Using Quiet Mode”](#), on page 48) and the option of creating an initialization file (see [Section 13.4, “Using the Initialization File Option”](#), on page 48) and a log file (see [Section 13.5, “Using the Logging Option”](#), on page 49).

This chapter describes the types of licenses available for Intel NetStructure[®] Host Media Processing (HMP) Software and how to get them. This chapter also describes how to find out your computer's MAC address since this is required when requesting some licenses.

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2.1 Preparations

Before you use the HMP Software, you must obtain a license file¹ containing HMP license data. You can obtain a license file either before or after you install the HMP Software, but you need to obtain a license file before you can proceed with using the HMP Software.

Before you obtain a license, you must understand the types of licenses available and decide which type of license you want to obtain. You can try out the HMP Software with a verification, evaluation, or trial license before you purchase a permanent, production license from Intel. If a license file is lost or damaged, you can obtain an emergency replacement for it. Table 1 shows the types of licenses available for use with HMP Software, where to get each type of license, and whether you need to supply a MAC address.

Table 1. License Types

License Type	Features	Expires?	Where to get license?	MAC address required?
Verification (free)	1 channel for RTP, Voice, and Multimedia	no	included with HMP Software ¹	no - use with any MAC address
Evaluation (free)	4 channels for all components	expires in 45 days	available from Web site ²	no - use with any MAC address

1. A verification license is installed with the HMP Software, activated and ready to use, but this license is only intended to be used for verifying that the HMP Software installation was successful (see the installation guide for the HMP Software).
 2. An evaluation license is available from <http://www.intel.com/network/csp/products/hmp/8399web.htm>.
 3. For a list of authorized distributors, go to: <http://www.intel.com/buy/networking/telecom.htm>.

1. A verification license is installed with the HMP Software, activated and ready to use, but this license is only intended to be used for verifying that the HMP Software installation was successful (see the installation guide for the HMP Software).



Table 1. License Types

License Type	Features	Expires?	Where to get license?	MAC address required?
Trial (free)	any supported channel component combination	expires in 45 days	Intel authorized distributor or account manager ³	yes - supply MAC address when ordering
Purchased	any supported channel component combination	no	Intel authorized distributor or account manager ³	yes - supply MAC address when ordering
Emergency Replacement	replaces a "Purchased" license	expires in 14 days	Intel authorized distributor or account manager ³	yes - supply MAC address when ordering

1. A verification license is installed with the HMP Software, activated and ready to use, but this license is only intended to be used for verifying that the HMP Software installation was successful (see the installation guide for the HMP Software).
 2. An evaluation license is available from <http://www.intel.com/network/csp/products/hmp/8399web.htm>.
 3. For a list of authorized distributors, go to: <http://www.intel.com/buy/networking/telecom.htm>.

The names of the license files identify the license type, included resources, and quantity of resources. The following tables and examples will help you understand this naming scheme.

Table 2. License Type Abbreviations

License Type	Abbreviation
Emergency	eme
Evaluation	eva
Purchased	pur
Trial	tri
Verification	ver

Table 3. Feature Descriptions and Abbreviations

Feature	Abbreviation	Description
Conferencing	c	Conferencing parties with advanced features such as coach/pupil mode, tone clamping, and active talker notification.
T.38 Fax Termination	f	T.38 fax origination and termination sessions.
Multimedia	m	Provides the capability of playing and recording digitized multimedia (audio, video, or audio/video) to and from RTP respectively when used in conjunction with either the RTP or Enhanced RTP resource.
RTP (basic)	r	Provides the capability of streaming digitized audio over RTP, using the G.711 coder, and/or digitized video over RTP using the H.263 coder. The RTP resource provides one RTP channel for the audio stream and one RTP channel for the video stream. Note: The video RTP channel cannot be used for an audio stream and the audio RTP channel cannot be used for a video stream.
Enhanced RTP	e	Resource providing the capabilities of the basic RTP resource with the additional capability of streaming audio over RTP using all G.723.1 and G.729 coder types.

Table 3. Feature Descriptions and Abbreviations

Feature	Abbreviation	Description
Speech Integration (Continuous Speech Processing)	s	Speech integration capabilities that enable you to integrate the HMP Software product with speech engines for Automatic Speech Recognition (ASR) and Text-To-Speech (TTS) support using the Continuous Speech Processing APIs.
Voice	v	Basic voice ports that allow you to control volume, record with Automatic Gain Control (AGC), and DTMF and user-defined tone detection.

Following are some examples of license filenames:

- **Purchased License Example** – A purchased license with 120 RTP ports, 120 voice ports, 5 enhanced RTP ports, 2 conferencing ports, 120 speech integration ports, and 8 T.38 fax origination/termination ports would have the following filename:
120r120v5e2c120s8f0m_pur.xml
- **Emergency License Example:** – An emergency replacement license with 60 RTP ports, 60 voice ports, 40 enhanced RTP ports, 40 conferencing ports, 24 speech integration ports, and 0 T.38 fax origination/termination ports would have the following filename:
60r60v40e40c24s00mf_eme.xml
- **Trial License Example:** – A trial license with 14 RTP ports, 14 voice ports, 14 enhanced RTP ports, 8 conferencing ports, 10 speech integration ports, and 8 T.38 fax origination/termination ports would have the following filename: *14r14v14e8c10s8f0m_tri.xml*

2.2 Obtaining a Verification License

A verification license is installed with the HMP Software, activated and ready to use, but this license is only intended to be used for verifying that the HMP Software installation was successful. Verification consists of running a demo. This is described in the installation guide for the HMP Software.

2.3 Obtaining an Evaluation License

This license is free, provides four channels for all feature components, and expires in 45 days. This license is intended to allow you to evaluate the HMP Software. You do not need to supply a MAC address to get this license.

To obtain an evaluation license, follow this procedure:

1. Go to <http://www.intel.com/network/csp/products/hmp/8399web.htm>.
2. Scroll down to **Enabling HMP Software**.
3. In the list of demo licenses, click on the license appropriate for the release of HMP you are using. A license agreement appears.

4. Click **Accept** to proceed with the download. A form appears.
5. Fill out the required information on the form. Optionally you can supply information that will help Intel to better understand what you need and how you use our products. If you wish to review Intel's privacy policy, a link is provided at the bottom of the form.
6. Click **Submit**.
7. Follow the instructions/prompts for downloading the license file (save the license file onto the computer on which you installed the HMP Software). Note the directory where you put the license file. You will need to know where the license file is stored when you activate it. The default location for license files is `/usr/dialogic/data`, but you can use a different location.

Now that you have obtained a license file, you must activate it. Refer to [Chapter 3, “Activating a License”](#).

2.4 Obtaining a Trial, Purchased, or Emergency Replacement License

This procedure applies to the three license types that require you to provide a MAC address to your Intel authorized distributor when you request them. Here is a description of each of these licenses:

Trial License

Like an evaluation license, a trial license is free, expires after a specified time period (see Table 1), and will allow you to try out the HMP Software before you purchase a license. Unlike an evaluation license, the trial license can be customized. The evaluation license provides four channels for all feature components, but you can request any supported channel component combination for a trial license. Because of this customization, you will need to request this license from an Intel authorized dealer and supply a MAC address.

Purchased License

You can request any supported channel component combination and this license does not expire. You must request this license from an Intel authorized dealer and supply a MAC address.

Emergency Replacement License

In some situations, you might need to get an emergency replacement license. For example, if you need to move the HMP application to a different system due to a hardware failure, you will need an emergency replacement license. To obtain an emergency replacement license, you must contact the Intel authorized distributor or Intel account manager from whom you requested the original license. Because this emergency replacement license will expire, a request for a permanent license to replace it will be placed automatically.

To obtain a trial, purchased, or emergency replacements license from an Intel authorized distributor or Intel account manager, follow this procedure:

1. Install the HMP Software and reboot (refer to the Installation Guide for the HMP Software).

2. Type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -m  
LicenseManager --MACAddress
```

This command will list all the MAC Addresses available on the targeted computer, including a description.

3. Record the MAC address for which you need a license. If multiple MAC addresses are available, you will have to choose one: for example, the MAC address of a card that is least likely to be removed.
4. Contact an Intel authorized distributor¹ and supply the MAC address of the computer on which you are installing the HMP Software when you request the license.
5. When you receive a license from your supplier, save the license file onto the computer on which the HMP Software was installed, in any directory.

Note: When you activate the license, you will have to specify this directory. The default directory for licenses is `/usr/dialogic/data`. The License Manager application will look in this directory by default but give you the option of changing to another directory. So it is easiest to put the license file in the default directory.

Once you obtain the license, you must activate it. Refer to [Chapter 3, “Activating a License”](#).

Caution: Do *not* modify the license file in any way. HMP Software will not work and you will violate the copyright law. Do *not* move the license file after you activate it. The license file must remain in the location where it was activated.

Note: The license file must be stored and activated on the computer having the MAC address that was specified when the license was obtained.

2.5 Upgrading a License

You can request that a license be upgraded to include additional resources for configuration features. Contact the Intel authorized distributor or Intel account manager from whom you requested the original license.

1. For a list of authorized distributors, go to <http://www.intel.com/buy/networking/telecom.htm>.



This chapter describes how to activate a license using the License Manager application.

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3.1 Requirements

Following are requirements for performing this procedure:

- This procedure assumes you have already installed the HMP Software and rebooted. If you haven't done this, refer to the Installation Guide for the HMP Software for instructions.
- Before you can activate a license, you must first obtain a license. Refer to [Chapter 2](#), “Obtaining a License” for instructions.

3.2 Using the Menu Version of the License Manager

This section describes how to use the menu version of the License Manager application to activate a license file so it can be used by the HMP system. It is possible to have multiple license files stored on a computer but only one license file at a time can be active.

To activate a license, perform the following:

1. Enter the `config.sh` command (located in *the /usr/dialogic/bin* directory) to start the configuration tool.
2. Once inside the configuration tool, press **Enter** to start `hmpconfig` and display the License Manager main menu:

```
Please choose one of the following options:
```

- ```
1. View active license file information
2. Activate license file
3. View all license files
4. Display HMP IP address
5. Set user-defined HMP IP address
6. Remove user-defined HMP IP address
7. Exit the program
```

```
Select the option by entering the corresponding number:
```

3. Type **2** and press **Enter**.

A list of the license files (XML files) that are in the default directory (*/usr/dialogic/data*) appears. For a description of the naming scheme for the license files, refer to [Section 2.1](#), “Preparations”, on page 13.

4. Type the number that corresponds to the license file you want and press **Enter**. If you have license files in a different directory and want to go there, use the “Change directory” option.

When you select a license file, the License Manager will display information about the file (serial number, MAC address, license type, expiration date, PCD file name, and a description of the features enabled by the license) and ask if you want to activate the license.

5. Type **y** and press **Enter** to activate the license.

If you type **n** and press **Enter**, you will return to the list of license files.

6. Exit the license manager.

### 3.3 Using the CLI Version of the License Manager

This section describes how to use the command line interface (CLI) version of the License Manager application to activate a license file so it can be used by the HMP system. It is possible to have multiple license files stored on a computer but only one license file at a time can be active.

To activate a license using the License Manager’s CLI, follow this procedure:

1. Type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -s -D <directory> -F <file>
```

```
LicenseManager --showdetails --directory <directory> --file <file>
```

where *<directory>* is the directory in which the license file was saved and *<file>* is the license file’s name.

The details of the license will display. After you examine the details and confirm that this is the license you want to activate, go to the next step.

2. To activate the license, type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -a -D <directory> -F <file>
```

```
LicenseManager --activate --directory <directory> --file <file>
```

where *<directory>* is the directory in which the license file was put and *<file>* is the license file’s name.

The license you specified is now active.

# Viewing Details About the Active License 4

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This chapter describes how to view details about the active license using the License Manager application.

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## 4.1 Requirements

Following are requirements for performing this procedure:

- This procedure assumes you have already installed the HMP Software and rebooted. If you haven't done this, refer to the Installation Guide for the HMP Software for instructions.
- Before you can view details about a license, you must first obtain a license. Refer to [Chapter 2, “Obtaining a License”](#) for instructions.

This section describes how to use the License Manager GUI to view information about the license file currently being used by the HMP system. This is known as the “active” license file.

## 4.2 Using the Menu Version of the License Manager

This section describes how to use the menu version of the License Manager application to view information about the license file currently being used by the HMP system. This is known as the “active” license file.

**Note:** If no license file is activated and you try to perform this task, an error message will appear. For information about how to activate a license, refer to [Chapter 3, “Activating a License”](#).

1. Enter the `config.sh` command (located in *the /usr/dialogic/bin* directory) to start the configuration tool.
2. Once inside the configuration tool, press **Enter** to start `hmpconfig` and display the License Manager main menu:

```
Please choose one of the following options:
1. View active license file information
2. Activate license file
3. View all license files
4. Display HMP IP address
5. Set user-defined HMP IP address
6. Remove user-defined HMP IP address
7. Exit the program
```



Select the option by entering the corresponding number:

3. Type **1** and press **Enter**.

Information about the active license will appear. This information includes the serial number, MAC address, license type, expiration date, PCD file name, and a description of the features enabled by the license (such as conferencing, enhanced RTP, RTP G.711, speech integration, T.38 fax termination, and voice).

4. After you're finished viewing the information, press **Enter** to continue.

The main menu is displayed again.

## 4.3 Using the CLI Version of the License Manager

This section describes how to use the License Manager CLI to view information about the license file currently being used by the HMP system. This is known as the “active” license file.

- Notes:**
1. Your computer can only use one license at a time.
  2. If no license file is activated and you try to perform this task, an error message will appear. For information about how to activate a license, refer to [Chapter 3, “Activating a License”](#).

If you want to use the CLI to view details of the license that is currently active, type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -s
LicenseManager --showdetails
```

The details of the active license are shown.

# Activating Licenses on Multiple Computers

---

## 5

Although the License Manager's command line interface (CLI) can be used interactively like the menu mode, unlike the menu mode operations, it can also be invoked from scripts and batch files. This allows you to use the CLI as a tool for activating licenses on multiple computers. It may be useful to do this when there are a large number of licenses that need to be activated and where it is more efficient to automate the license activation through a script or utility program rather than performing the activations manually.

Before activating the licenses through a script, you must have completed the following steps:

1. Install the HMP Software on the target computers (see the HMP Software installation guide).
2. Obtain the licenses for the target computers (see [Chapter 2, "Obtaining a License"](#)).

The license file must be installed and activated on the computer having the MAC address that was specified when the license was obtained. Using the License Manager CLI commands as described in [Chapter 13, "License Manager Command Line Interface \(CLI\) Reference"](#), you can write a script to activate the licenses on the target computers. When using the CLI to activate licenses through a script, you must follow these guidelines:

1. The script must execute the License Manager program on the target computer to activate the appropriate license file installed there.
2. The activate command must use the `-F` or `--file` parameter specifying the name of the license file installed on the target computer.
3. The activate command must use the `-D` or `--directory` parameter and specify the full path name for the directory where the license is installed on the target computer.

After activating the licenses on the target computers, you can start using the HMP Software.



This chapter describes how to view all licenses available on a computer using the License Manager application.

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- Using the Menu Version of the License Manager ..... 25
- Using the CLI Version of the License Manager ..... 26

## 6.1 Requirements

Following are requirements for performing this procedure:

- This procedure assumes you have already installed the HMP Software and rebooted. If you haven't done this, refer to the Installation Guide for the HMP Software for instructions.
- Before you can view a license, you must first obtain a license. Refer to [Chapter 2, “Obtaining a License”](#) for instructions.

## 6.2 Using the Menu Version of the License Manager

It is possible to have more than one license file available on a computer, but only one can be active at a time. To view all license files available on a computer, follow this procedure:

1. Enter the `config.sh` command (located in *the /usr/dialogic/bin* directory) to start the configuration tool.
2. Once inside the configuration tool, press **Enter** to start `hmpconfig` and display the License Manager main menu:

```
Please choose one of the following options:
```

- ```
1. View active license file information
2. Activate license file
3. View all license files
4. Display HMP IP address
5. Set user-defined HMP IP address
6. Remove user-defined HMP IP address
7. Exit the program
```

```
Select the option by entering the corresponding number:
```

3. Type **3** and press **Enter**.

A list of the license files (XML files) that are in the default directory (*/usr/dialogic/data*) appears. You can select a file, change the directory, or to return to the main menu. The selections and actions are the same as when you activate a license, but you can only display the content of the file – you cannot activate a file.

6.3 Using the CLI Version of the License Manager

It is possible to have more than one license file available on a computer, but only one can be active at a time. To view all license files available on a computer, type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -l  
LicenseManager --listlicenses
```

If you don't specify a directory, the licenses in the default license directory (*/usr/dialogic/data*) will be shown. So if your licenses are in some other directory, you must specify it as follows (both the short and long form of the command are shown):

```
LicenseManager -l -D <directory>  
LicenseManager --listlicenses --directory <directory>
```

where *<directory>* is the directory in which you are keeping your license files.

A list of available licenses will display.

This section provides the overall procedure for switching from using one HMP software license to another.

After you use an HMP software license for a while, there may come a time when you need to use a new license that offers additional or different features. It is possible to have more than one HMP Software license stored on a computer, but only one can be actively used at a time. This procedure assumes that you have already activated a license and have another license stored on your system that you want to use. If you only have one license stored on your system, you must obtain an additional license as described in [Chapter 2, “Obtaining a License”](#).

To switch to using a different license, perform the following:

1. Select and activate a different license file. Follow the procedure in [Chapter 3, “Activating a License”](#).
2. Stop the HMP services if they are running. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).
3. Restart the HMP services. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).



This chapter describes how display the IP address currently being used by the HMP Software license.

- Requirements 29
- Using the Menu Version of the License Manager 29
- Using the CLI Version of the License Manager 30

8.1 Requirements

Following are requirements for performing this procedure:

- This procedure assumes you have already installed the HMP Software and rebooted. If you haven't done this, refer to the Installation Guide for the HMP Software for instructions.
- Before you can display the current HMP IP address, you must first obtain and activate a license. Refer to [Chapter 2, "Obtaining a License"](#) and [Chapter 3, "Activating a License"](#) for instructions.

8.2 Using the Menu Version of the License Manager

This section describes how to use the menu version of the License Manager application to view the IP address currently being used by the HMP software license.

To display a computer's HMP IP address, follow this procedure:

1. Enter the `config.sh` command (located in *the /usr/dialogic/bin* directory) to start the configuration tool.
2. Once inside the configuration tool, press **Enter** to start `hmpconfig` and display the License Manager main menu:

```
Please choose one of the following options:
```

- ```
1. View active license file information
2. Activate license file
3. View all license files
4. Display HMP IP address
5. Set user-defined HMP IP address
6. Remove user-defined HMP IP address
7. Exit the program
```

```
Select the option by entering the corresponding number:
```

3. Type **4** and press **Enter**.

The License Manager displays the IP address of the HMP system. The default HMP IP address is the IP address that corresponds to the MAC address used as part of the HMP license, but you

can specify a different IP address by using option 5 from the License Manager's main menu (refer to [Chapter 9, "Changing the HMP IP Address"](#)).

4. Press **Enter** to continue.

## 8.3 Using the CLI Version of the License Manager

This section describes how to use the command line interface (CLI) version of the License Manager application to view the IP address currently being used by the HMP software license.

To display a computer's HMP IP address, type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -o
LicenseManager --obtainip
```

The License Manager displays the IP address of the HMP system. The default HMP IP address is the IP address that corresponds to the MAC address used as part of the HMP license. However, it is possible to specify a different IP address. Refer to [Chapter 9, "Changing the HMP IP Address"](#).

This chapter describes how to change the IP address currently being used by the HMP Software license.

- [Requirements](#) . . . . . 31
- [Using the Menu Version of the License Manager](#) . . . . . 31
- [Using the CLI Version of the License Manager](#) . . . . . 32

## 9.1 Requirements

Following are requirements for performing this procedure:

- This procedure assumes you have already installed the HMP Software and rebooted. If you haven't done this, refer to the Installation Guide for the HMP Software for instructions.
- Before you can change the current HMP IP address, you must first obtain and activate a license. Refer to [Chapter 2, "Obtaining a License"](#) and [Chapter 3, "Activating a License"](#) for instructions.
- You may also want to view the current IP address before you change it. Refer to [Chapter 8, "Displaying the HMP IP Address"](#) for instructions.

## 9.2 Using the Menu Version of the License Manager

This section describes how to use the menu version of the License Manager application to change the IP address currently being used by the HMP software license. You must use an IP address that is already assigned to the HMP host. You can use the `ifconfig` utility to determine the list of available IP addresses on the host.

If you later want to remove (discontinue use of) the user-selected IP address and return to the default IP address, follow the procedure in [Chapter 10, "Removing a User-Selected HMP IP Address"](#).

To change the HMP IP address, follow this procedure:

1. Stop the HMP services if they are running. Follow the procedure in [Chapter 11, "Stopping and Restarting the HMP Services"](#).
2. Enter the `config.sh` command (located in *the /usr/dialogic/bin* directory) to start the configuration tool.
3. Once inside the configuration tool, press **Enter** to start `hmpconfig` and display the License Manager main menu:

```
Please choose one of the following options:
```

1. View active license file information
2. Activate license file
3. View all license files
4. Display HMP IP address
5. Set user-defined HMP IP address
6. Remove user-defined HMP IP address
7. Exit the program

Select the option by entering the corresponding number:

4. Type **5** and press **Enter**. A prompt to enter an IP address appears.
5. Enter an IP address for the HMP system.

After you enter the address, the address is passed to the License Manager and the following confirmation message is displayed. Here is an example:

```
HMP IP address changed to 192.168.37.21
```

**Note:** You must enter the HMP IP address in the standard four-part IP address format (dot notation format). Also, you must use an IP address that is already assigned to the HMP host. It is possible to assign an IP address that is not already available on the host, but HMP won't work properly if you do. You can use the `ifconfig` utility to determine the list of available IP addresses on the host.

6. Restart the HMP services. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).

## 9.3 Using the CLI Version of the License Manager

This section describes how to use the CLI version of the License Manager application to change the IP address currently being used by the HMP software license. You must use an IP address that is already assigned to the HMP host. You can use the `ifconfig` utility to determine the list of available IP addresses on the host.

If you later want to remove (discontinue use of) the user-selected IP address and return to the default IP address, follow the procedure in [Chapter 10, “Removing a User-Selected HMP IP Address”](#).

To change the HMP IP address, follow this procedure:

1. Stop the HMP services if they are running. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).
2. Type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -e
```

```
LicenseManager --setip
```

3. A prompt to enter an IP address appears.

4. Enter an IP address for the HMP system.

After you enter the address, the address is passed to the License Manager and a confirmation message is displayed. Here is an example:

```
HMP IP address changed to 192.168.37.21
```

**Note:** You must enter the HMP IP address in the standard four-part IP address format (dot notation format). Also, you must use an IP address that is already assigned to the HMP host. It is possible to assign an IP address that is not already available on the host, but HMP won't work properly if you do. You can use the `ifconfig` utility to determine the list of available IP addresses on the host.

5. Restart the HMP services. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).



# Removing a User-Selected HMP IP Address

This chapter describes how to remove (discontinue use of) an HMP IP address selected by a user and restore the default HMP IP address.

- Requirements . . . . . 35
- Using the Menu Version of the License Manager . . . . . 35
- Using the CLI Version of the License Manager . . . . . 36

## 10.1 Requirements

Following are requirements for performing this procedure:

- This procedure assumes you have already installed the HMP Software and rebooted. If you haven't done this, refer to the Installation Guide for the HMP Software for instructions.
- This procedure only works if a user has specified an HMP IP address as described in [Chapter 9, "Changing the HMP IP Address"](#). If it is used on the default HMP IP address, the default HMP IP address will not be removed.

## 10.2 Using the Menu Version of the License Manager

This section describes how to use the menu version of the License Manager application to remove (discontinue use of) an IP address that was specified by a user and restore the default HMP IP address.

**Note:** The "removed" IP address is still present on the HMP host (it is typically assigned by an outside agency, such as DHCP) even though HMP is no longer using it.

To remove the user-specified HMP IP address, follow this procedure:

1. Stop the HMP services if they are running. Follow the procedure in [Chapter 11, "Stopping and Restarting the HMP Services"](#).
2. Enter the `config.sh` command (located in *the /usr/dialogic/bin* directory) to start the configuration tool.
3. Once inside the configuration tool, press **Enter** to start `hmpconfig` and display the License Manager main menu:

```
Please choose one of the following options:
```

1. View active license file information
2. Activate license file
3. View all license files
4. Display HMP IP address
5. Set user-defined HMP IP address
6. Remove user-defined HMP IP address
7. Exit the program

Select the option by entering the corresponding number:

4. Type **6** and press **Enter**.

The following message appears:

```
User-defined HMP IP address removed
```

5. Press **Enter** to continue.
6. Restart the HMP services. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).

You can only remove a user-specified HMP IP address. Once the user-specified HMP IP address is removed, the repetition of the operation does not have any affect on the system: the default IP address can't be removed.

## 10.3 Using the CLI Version of the License Manager

This section describes how to use the command line interface (CLI) version of the License Manager application to remove (discontinue use of) an IP address that was specified by a user and restore the default HMP IP address.

**Note:** The “removed” IP address is still present on the HMP host (it is typically assigned by an outside agency, such as DHCP) even though HMP is no longer using it.

To remove a user-specified IP address, follow this procedure:

1. Stop the HMP services if they are running. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).
2. Type *one* of the following commands (the first one is the short form of the command and the second is the long form of the command):

```
LicenseManager -r
```

```
LicenseManager --removeip
```

The following message appears:

```
User-defined HMP IP address removed
```

3. Restart the HMP services. Follow the procedure in [Chapter 11, “Stopping and Restarting the HMP Services”](#).

You can only remove a user-specified HMP IP address. Once the user-specified HMP IP address is removed, the repetition of the operation does not have any affect on the system: the default IP address can't be removed.







# Stopping and Restarting the HMP Services 11

---

This chapter describes how to manually stop and restart the HMP services.

If you need to stop and restart the HMP services:

- Run the `dlstop` script to stop the HMP services
- Run the `dlstart` script to restart the HMP services

- Notes:**
1. Before you run these scripts, Linux must be started with the kernel supported for this release (refer to the Release Guide).
  2. The HMP services are started automatically when you reboot your system.



# License Manager Menu Interface Reference

# 12

This chapter describes the License Manager menu interface and how to use it. The following information is provided:

- Description. . . . . 41
- Options. . . . . 41
- Starting the License Manager Menu Interface. . . . . 42

## 12.1 Description

The License Manager application allows you to work with HMP Software licenses. At least one license is required in order to use HMP Software. The License Manager allows you to perform tasks such as activating a license, viewing licenses available on a computer, switching to a different license, or changing the HMP IP address.

The License Manager application can be used via a menu interface as described in this chapter or via a command line interface (CLI) as described in [Chapter 13, “License Manager Command Line Interface \(CLI\) Reference”](#). Most licensing-related tasks described in this document include procedures for using both the command line and the menu interface.

## 12.2 Options

The options for this License Manager interface are given in the form of numbered items on text menus. You choose the item you want by entering its corresponding number at the prompt. The main menu appears after you start the License Manager (refer to [Section 12.3, “Starting the License Manager Menu Interface”](#), on page 42). Depending on the option you choose from this menu, a submenu may appear.

The options on the main menu are as follows:

### 1. View active license file information

If you select this option and there is an active license file, information about the license file will be displayed (such as serial number, MAC address, license type, expiration date, PCD file name, and a description of features).

### 2. Activate license file

If you select this option, it displays the list of XML files in the default directory (*/usr/dialogic/data*) plus the options of changing the directory or returning to the previous menu. If you select an option corresponding to an XML file, the program will display the content of the file as described for the “View active license” option (above) and will ask you to confirm file activation.

### 3. View all license files

If you select this option, it displays the list of XML files in the default directory (*/usr/dialogic/data*) plus the options of changing the directory or returning to the previous menu. If you select a file, you can only display the content of the file. You cannot activate the file.

### 4. Display HMP IP address

If you select this option, the program displays the IP address currently being used by the HMP system. The default HMP IP address is the IP address that corresponds to the MAC address used as part of the HMP license. However, it is possible to change the default IP address to another valid IP address (see next option).

### 5. Set User-defined HMP IP address

If you select this option, you'll be prompted to enter an IP address for the HMP system. After you enter the new IP address, this IP address is passed to the License Manager and a confirmation message is displayed.

**Note:** You must enter the HMP IP address in the standard four-part IP address format. Also, you must use an IP address that is already assigned to the HMP host. It is possible to assign an IP address that is not already available on the host, but HMP won't work properly if you do. You can use the `ifconfig` utility to determine the list of available IP addresses on the host.

**Note:** You must adjust the HMP IP address if you plan to use a different network card for IP telephony than the licensing network card.

### 6. Remove User-defined HMP IP address

Selecting this option will remove (discontinue use of) the user-defined HMP IP address. You can only remove a user-defined HMP IP address. (The "removed" IP address is still present on the HMP host even though HMP is no longer using it.) Once the user-defined HMP IP address is removed, repeating this operation does not have any affect on the system: the default IP address can't be removed.

### 7. Exit the program

If you select this option, it terminates the program and returns control to the console.

## 12.3 Starting the License Manager Menu Interface

This section describes how to start the License Manager application.

To start the License Manager, perform the following:

1. Enter the `config.sh` command (located in *the /usr/dialogic/bin* directory) to start the configuration tool.
2. Once inside the configuration tool, press **Enter** to start `hmpconfig` and display the License Manager main menu.

The main menu appears (Figure 1).

**Figure 1. License Manager Main Menu**

Please choose one of the following options:



1. View active license file information
2. Activate license file
3. View all license files
4. Display HMP IP address
5. Set user-defined HMP IP address
6. Remove user-defined HMP IP address
7. Exit the program

Select the option by entering the corresponding number:



# License Manager Command Line Interface (CLI) Reference 13

---

This chapter describes the License Manager command line interface (CLI) and how to use it. The following information is provided:

- Description. . . . . 45
- Options. . . . . 45
- Using Quiet Mode . . . . . 48
- Using the Initialization File Option . . . . . 48
- Using the Logging Option . . . . . 49
- Getting Help . . . . . 49

## 13.1 Description

The License Manager application allows you to work with HMP Software licenses. At least one license is required in order to use HMP Software. The License Manager allows you to perform tasks such as activating a license, viewing licenses available on a computer, switching to a different license, or changing the HMP IP address.

The License Manager application can be used via a command line interface as described in this chapter or via a menu interface as described in [Chapter 12, “License Manager Menu Interface Reference”](#). Most licensing-related tasks described in this document include procedures for using both the command line and the menu interface.

## 13.2 Options

This section describes how to use all the License Manager CLI commands and options. More details about [Using Quiet Mode](#), [Using the Initialization File Option](#), [Using the Logging Option](#), and [Getting Help](#) are provided in the sections that follow this one.

The following command summary is also provided on the basic help screen for the License Manager CLI. The License Manager help screen is shown in [Figure 2](#). To use the License Manager CLI, you must first go to `/usr/dialogic/bin`. Then enter a command as described below:

### Usage

Commands can be in one of the following forms:

```
LicenseManager -<short_form_of_command> [<options>] [<parameters>]
```

```
LicenseManager --<long_form_of_command> [<options>] [<parameters>]
```

where the *command* can be **only one** of the following:

```
[-a|--activate]
[-s|--showdetails]
[-m|--MACAddress]
[-l|--listlicenses]
[-?|--help {<command>}]
[-V|--version]
[-e|--setip]
[-r|--removeip]
[-o|--obtainip]
```

where *options* can be **one or more** of the following:

```
[-Q|--Quiet {'On'|'Off'}] : Display less output; no formatting
[-L|--Logging {'On'|'Off'}] : Log output to /usr/dialogic/bin/LicenseManager.log
[-I|--Initfile {'On'|'Off'}] : Read commands from
 /usr/dialogic/ini/LicenseManager.ini
```

and *parameters* can be **one or more** of the following:

```
[-D|--directory <directory>] : Directory where license file is located
[-F|--file <file>] : Name of license file
```

## Examples

Either of the following commands can be used to activate a license file *<file>* in directory *<directory>*:

```
LicenseManager -a -D <directory> -F <file>
LicenseManager --activate --directory <directory> --file <file>
```

Table 4 lists the License Manager CLI commands. Note that unless a particular filename is specified, the action is performed by default on the active license.

**Table 4. License Manager Commands**

| Command              | Usage (Long Form and Short Form)                                                                                         | Comments                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Show License Details | LicenseManager --showdetails [--directory <directory>] [--file <file>]<br><br>LicenseManager -s -D <directory> -F <file> | By default, the details of the active license are shown. Details of specific license files can also be shown.                                                   |
| Activate License     | LicenseManager --activate [--directory <directory>] --file <file><br><br>LicenseManager -a -D <directory> -F <file>      | There can be multiple license files on disk, but only one of them can be active at a particular time. This command lets you activate a particular license file. |

Table 4. License Manager Commands

| Command            | Usage (Long Form and Short Form)                                                                               | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| List License Files | LicenseManager --listlicenses [--directory <directory>]<br>LicenseManager -l -D <directory>                    | If a directory is not specified, the licenses in the default license directory are shown.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Show MAC Addresses | LicenseManager -MACAddress<br>LicenseManager -m                                                                | This command will list all the MAC Addresses available on the targeted computer, including a description.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Help               | LicenseManager --help<br>LicenseManager --help activate<br><br>LicenseManager -?<br>LicenseManager -? activate | Help is provided for all commands or a specific command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Show Version       | LicenseManager --version<br>LicenseManager -V                                                                  | Shows the version of License Manager.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Set IP             | LicenseManager --setip <IPAddress><br>LicenseManager -e <IPAddress>                                            | This command lets you change the IP address currently being used by the HMP software license. You must use an IP address that is already assigned to the HMP host. You can use the <code>ifconfig</code> utility to determine the list of available IP addresses on the host.<br><b>Note:</b> The default HMP IP address is the IP address that corresponds to the MAC address used to license the HMP system.<br><b>Note:</b> You must adjust the HMP IP address if you plan to use a different network card for IP telephony than the licensing network card. |
| Remove IP          | LicenseManager --removeip<br>LicenseManager -r                                                                 | This command can be used to remove (discontinue use of) the user-specified IP address for the HMP system and restore the default HMP IP address.<br><b>Note:</b> The “removed” IP address is still present on the HMP host (it is typically assigned by an outside agency, such as DHCP) even though HMP is no longer using it.                                                                                                                                                                                                                                 |
| Obtain IP          | LicenseManager --obtainip<br>LicenseManager -o                                                                 | This command can be used to get the IP address used by the HMP system. If the IP Address was defined by a user (see above two commands) it displays the user-defined IP address. Otherwise, it displays the IP address that corresponds to the MAC address used to license the HMP system.                                                                                                                                                                                                                                                                      |

Table 4. License Manager Commands

| Command                                 | Usage (Long Form and Short Form)                                                                | Comments                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quiet (Toggle and On/Off)               | <pre>LicenseManager --Quiet ['On'   'Off']</pre> <pre>LicenseManager -Q ['On'   'Off']</pre>    | This option can be enabled for any command by specifying <code>--quiet</code> . It can be also explicitly specified as <code>On</code> or <code>Off</code> . If quiet is off (i.e. verbose mode), then more formatting information gets printed out. Otherwise, the tool prints out unformatted results. |
| Logging (Toggle and On/Off)             | <pre>LicenseManager --Logging ['On'   'Off']</pre> <pre>LicenseManager -L ['On'   'Off']</pre>  | This option allows you to log the results of an execution to a log file. It can be specified as <code>On</code> or <code>Off</code> .                                                                                                                                                                    |
| Initialization File (Toggle and On/Off) | <pre>LicenseManager --Initfile ['On'   'Off']</pre> <pre>LicenseManager -I ['On'   'Off']</pre> | This option allows you to specify an initialization script (or command file) that will be read and executed when the CLI is invoked. It can be specified as <code>On</code> or <code>Off</code> .                                                                                                        |

## 13.3 Using Quiet Mode

The License Manager command line interface (CLI) allows you to run commands in quiet mode. This mode can be useful if you want to pipe the output of the CLI into another tool.

To enable this option, use the `--Quiet` or `-Q` option:

- `LicenseManager --Quiet`
- `LicenseManager -Q`

You can explicitly specify `On` or `Off` with this option:

- `LicenseManager --Quiet [On]`
- `LicenseManager -Q [On]`

If quiet is `Off`, then more formatting information gets printed out. Otherwise, the tool prints out unformatted results.

## 13.4 Using the Initialization File Option

This feature allows you to specify an initialization script (or command file) that will be read and executed when the CLI is invoked. This can be useful for setting up the standard directory path, file name, verbosity options (quiet mode on or off), etc. For example, the CLI can read default values for parameters and options from a startup file.

To enable this option, use the `--Initfile` or `-I` option:

- `LicenseManager --Initfile`
- `LicenseManager -I`

You can explicitly specify On or Off with this option:

- `LicenseManager --Initfile [On]`
- `LicenseManager -I [On]`

The *initfile* filename is *LicenseManager.ini* and the *initfile* directory is `\ini`.

## 13.5 Using the Logging Option

The file logging option allows you to log the results of execution to a log file. This feature can be useful when you execute multiple command line commands from a script file.

To enable this option, use the `--Logging` or `-L` option:

- `LicenseManager --Logging`
- `LicenseManager -L`

You can explicitly specify On or Off with this option:

- `LicenseManager --Logging [On]`
- `LicenseManager -L [On]`

The log file name is *LicenseManager.log*. Logging is done to `\Dialogic\bin`.

## 13.6 Getting Help

The License Manager command line interface has built-in help. The help provides a help summary for all commands or detailed help on specific commands.

To view help on all commands, type *one* of the following commands:

- `LicenseManager --help`
- `LicenseManager -?`
- `LicenseManager -h` (another short form of the command)

The help that appears is shown in Figure 2.

To view help on a specific command, type *one* of the following commands:

- `LicenseManager --help <command name or abbreviation>`
- `LicenseManager -? <command name or abbreviation>`
- `LicenseManager -h <command name or abbreviation>` (another short form of the command)

Figure 2. License Manager Help Screen

```

+=====+
This program lets you manage HMP licenses.
USAGE: Commands can be in one of the following forms
(1) LicenseManager -<short_form_of_command> [<options>] [<parameters>]
(2) LicenseManager --<long_form_of_command> [<options>] [<parameters>]
+-----+
where COMMAND can be ONLY ONE of the following
[-a|--activate] : Activate license
[-s|--showdetails] : Show details about the active license
[-m|--MACAddress] : List the available MAC addresses
[-l|--listlicenses] : List the available licenses
[-?|--help {<command>}] : Show help for specified command
[-V|--version] : Show the version of the License Manager
[-e|--setip] : Set the user-defined HMP IP address
[-r|--removeip] : Remove the user-defined HMP IP address
[-o|--obtainip] : Show the HMP IP address

where OPTIONS can be ONE or MORE of the following
[-Q|--Quiet {On|Off}] : Display less output; no formatting
[-L|--Logging {On|Off}] : Log output to Dialogic\bin\LicenseManager.log
[-I|--Initfile {On|Off}] : Read commands from Dialogic\ini\LicenseManager.ini

and PARAMETERS can be ONE or MORE of the following:
[-D|--dir <directory>] : Directory where license file is located
[-F|--file <file>] : Name of license file
+-----+
EXAMPLES:
Any of the following commands can be used to activate a license file <file>
in directory <directory>
(1) LicenseManager -a -D <directory> -F <file>
(2) LicenseManager --activate --dir <directory> --file <file>

Any of the following commands can be used to get help for a specific
command <command>
(1) LicenseManager -? {<command>}
(2) LicenseManager --help {<command>}
(3) LicenseManager -h {<command>}
+=====+

```



## Glossary

---

**DHCP:** Dynamic Host Configuration Protocol

**Dynamic Host Configuration Protocol:** A TCP/IP protocol that enables PCs and workstations to get temporary or permanent IP addresses from centrally-administered servers. DHCP allows a server to dynamically assign IP addresses to workstations on the fly.

**Emergency Replacement License:** See HMP Software License for general information. In some situations, you might need to get an emergency replacement license. For example, if you need to move the HMP application to a different system due to a hardware failure, you will need an emergency replacement license. To obtain an emergency replacement license, you must contact the Intel authorized distributor or Intel account manager from whom you requested the original license. Because this emergency replacement license will expire, a request for a permanent license to replace it will be placed automatically.

**Evaluation License:** See HMP Software License for general information. An evaluation license is free, provides four channels for all feature components, and expires in 45 days. This license is intended to allow you to evaluate the HMP Software. You do not need to supply a MAC address to get this license

**HMP:** Host Media Processing

**HMP Software License:** HMP Software is licensed using an industry-standard model in which a MAC address is used to node-lock the software to a particular computer. Before you use the HMP Software, you must obtain a license file<sup>1</sup> containing HMP license data. An HMP license is a file containing a combination of call control and media processing channels. You can obtain a license file either before or after you install the HMP Software, but you need to obtain a license file before you can proceed with using the HMP Software. The types of licenses are defined individually: evaluation, purchased, trial, verification, and emergency replacement.

**Host Media Processing:** Intel NetStructure<sup>®</sup> Host Media Processing Software performs media processing tasks on general-purpose servers based on Intel<sup>®</sup> architecture without the use of specialized hardware. When installed on a system, the software looks like an Intel<sup>®</sup> Dialogic<sup>®</sup> board with DM3 architecture to the customer application, but all media processing takes place on the host processor.

**MAC Address:** A unique 48-bit number programmed into each network interface card when it is manufactured. This number is required when you request a trial or purchased license.

**Purchased License:** You can request any supported channel component combination and this license does not expire. You must request this license from an Intel authorized dealer and supply a MAC address.

**Simple Network Management Protocol:** A standard IP network mechanism for exchanging management information between an SNMP agent and an SNMP manager. SNMP was designed to manage routers, switches and other network devices. SNMP provides an industry standard protocol for fault and monitoring support.

**SNMP:** Simple Network Management Protocol

- 
1. A verification license is installed with the HMP Software, activated and ready to use, but this license is only intended to be used for verifying that the HMP Software installation was successful.



**SNMP Agent:** The SNMP agent provides remote (or local) monitoring and limited control of Intel NetStructure® devices over an IP network. The SNMP agent resides on an IP stack and responds to SNMP “gets” and “sets” from an SNMP manager and the SNMP agent sends SNMP traps.

**SNMP Component Manager:** The SNMP manager is the management application that monitors and/or administers a remote system. management application, you must use a third-party product such as HP OpenView\* or any other SNMP-compliant network management application.

**Trial License:** See HMP Software License for general information. Like an evaluation license, a trial license is free, expires after a specified time period, and will allow you to try out the HMP Software before you purchase a license. Unlike an evaluation license, the trial license can be customized. The evaluation license provides four channels for all feature components, but you can request any supported channel component combination. Because of this customization, you will need to request this license from an Intel authorized dealer and supply a MAC address.

**Verification License:** See HMP Software License for general information. A verification license is installed with the HMP Software, activated and ready to use, but this license is only intended to be used for verifying that the HMP Software installation was successful. Verification consists of running a demo.

**XML:** eXtensible Markup Language – The universal format for structured documents and data.

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