

Getting Started

with

Netscape LivePayment

Version 1.0 for Sun Solaris Version 2.4 and 2.5

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Introduction

This Guide gives instructions for installing Netscape LivePayment. It includes prerequisites, preinstallation, and post-installation tasks that you must perform in order to ensure a successful installation.

Netscape LivePayment Version 1.0 is an electronic commerce component that enables a web server to perform real-time merchant processing functions. LivePayment consists of the following entities:

- a set of LiveWire objects for credit card processing
- a credit card processor
- utilities and configuration programs
- documentation/help files
- starter and sample applications
- configuration programs
- command-line utility for credit card processing

The Introduction has a listing of conventions and some technical terms. If you spend a few minutes looking through the Introduction before reading the rest of this Guide, you will not have to search for unfamiliar terms and their meanings.

Before you begin

This Guide is written with the assumption that you understand how to work with the operating system on which you are running this software.

This documentation assumes you have some basic background including

- a general understanding of the Internet and the World Wide Web.

You need not be an expert on the World Wide Web or the technical intricacies of HTML, but you will find it helps to know the basics of both.

- experience in setup and management of web services.
- familiarity with server-side Javascript. See the *LiveWire Developer's Guide* for more information.

Before reading this Guide, or any of the other documentation provided by Netscape Communications Corporation, you may find it helpful to read your operating system manuals.

Audience

This Guide is written for the site administrator and application developer using LivePayment for a range of on-line services.

Organization

This Guide is divided into 3 parts:

- “Preinstallation Tasks” describing system hardware and software requirements and preinstallation planning
- “Running the LivePayment Installation Program,” describing the Netscape automated interactive installation step-by-step, and
- “Postinstallation Configuration,” describing configuration issues.

Related documentation

Refer to the following documents for additional detailed information about your software:

- *Netscape LivePayment Developer's Handbook*
- *Netscape LiveWire Developer's Guide*
- Documentation accompanying your operating system and dependent products

Documentation information

On-line documentation is provided in Adobe Acrobat™ format. You can use your Netscape Navigator to read the on-line docs with the Adobe Acrobat™ plug-in or helper application available from <http://www.adobe.com>.

Conventions

A number of typographic conventions are used throughout this manual to help you recognize special terms and instructions. These conventions are summarized in the table below

Convention	Meaning	Example
boldface	items on the screen	Click the Configure button to configure the card processor.
	names of keys	Press Enter to clear the message.
	file names	system.ini
boldface numbered steps	higher level descriptions of tasks you perform (more detailed instructions follow)	<p>1. Enter the group information.</p> <p>Enter the name in the Group Name field, and a short description in the Description field.</p>
<i>italics</i>	key words, such as terms that are defined in the text	If the transaction is authorized, a <i>capture</i> takes place.
	names of books	For more information, see the <i>LiveWire and LiveWire Pro Developer's Guide</i> .
courier font	command line input or output	Change to the LivePayment configuration directory. <code>\$ cd install_dir/admin/config</code>
	text file content, such as HTML templates and configuration files	<HTML> <TITLE>Netscape LivePayment</TITLE>
	code samples	<code>mer = new Merchant(); term = new Terminal();</code>

Preinstallation Tasks

This chapter describes planning and tasks you must perform before you can install LivePayment Version 1.0.

Topics in this section are listed below.

- Hardware and software requirements on page 10
- Installation overview on page 11
- Preparing the system for installation on page 13

Hardware and software requirements

The following table shows the hardware and software requirements for installing and using LivePayment:

Hardware Platform:	Sun SPARC workstation
Operating System:*	<ul style="list-style-type: none"> • Solaris 2.4 <i>and</i> • patch 34 and patch 101242-10 to Solaris 2.4 is required or • Solaris 2.5.1*
<p>* Netscape LivePayment is certified for use with the Solaris Version 2.5.1 Operating System. This does not imply that any other Netscape product is certified for use with Solaris Version 2.5.1, including, but not limited to, the individual dependent Netscape products listed below.</p>	
Memory:	32 MB RAM (minimum); 64 MB RAM (recommended)
Software Requirements:	<ul style="list-style-type: none"> • Netscape Enterprise Server Version 2.0 • Netscape Navigator Version 3.0 • LiveWire JavaScript compiler Version 13.4 • Informix On-Line Dynamic Server Version 7.10 or later (or other relational database)
Disk Space:	20 MB hard disk space available (for the installation staging area); 20 MB hard disk space available (minimum for the installed software)
Additional:	CD-ROM drive for installation and a 4mm DDS (DAT) tape drive for backup and maintenance.

NOTE: To find the patch level of your system, use the **uname** command:

```
uname -a
```

An example output is:

```
SunOS joe.domain.com 5.4 Generic_101945-34 sun4m sparc
```

In this example, the “34” represents the current patch level. This does not verify whether or not patch 101242-10 has been installed or not.

What you need to know

This installation assumes that the user is an experienced Netscape Enterprise Server site administrator and has experience installing the Enterprise Server. Also, the site administrator must have superuser privileges and some system administration experience.

Installation overview

This section provides an overview of the tasks required to install LivePayment Version 1.0. The checklist below lists the tasks you should plan in advance to ensure a successful installation. You can refer back to this checklist as you complete each stage of your installation.



Installation checklist

Be sure to perform each task in the order presented on this checklist.



Make sure your system meets the hardware and software requirements. See “Hardware and software requirements” on page 10 for more information.



Make sure you have sufficient disk space. See “Hardware and software requirements” on page 10 for more information.



Install the Netscape Navigator Version 3.0. See “Install the Netscape Navigator” on page 14 for more information.



Extract the software files from the distribution media or download them from the LivePayment website. See “Unpack the distribution” on page 14 for more information.



Install the Enterprise Server Version 2.0 and activate LiveWire. See “Install the Netscape Enterprise Server and Activate LiveWire” on page 17 for more information.



If you intend to use the sample applications **LPStart** and/or **LPAdmin**, install Informix Version 7.1 or other relational database. See the installation documentation for your database. Also see “Install the relational database” on page 18.



Install and configure LivePayment. See “Running the LivePayment Installation Program” on page 19 for more information.

Bank card acquirer approval

If you want to accept credit cards as a form of payment, you are required to obtain approval for credit worthiness through a bank card acquirer, a financial institution that processes credit card transactions between your business and your customer's bank card issuer.

Netscape Communications can refer you to available bank card acquirers set up to process credit card transactions, but cannot guarantee your business approval. Owning and using Netscape software does not guarantee you the privilege to conduct credit card business over the Internet. Your ability to accept credit card payments is subject to the bank card acquirer's approval only.

This business process involves establishing a relationship with a financial institution, ensuring that the financial institution has the necessary capabilities and relationships to accept your customer's credit cards over the Internet, the institution's desire to offer these services to your business and your acceptance of their terms and conditions.

Establishing a credit card business agreement

If your business is planning to accept credit cards as a form of payment, you are required to have MOTO (Mail Order/Telephone Order) approval through a Netscape supported bank card acquirer. If Netscape does not support the bank card acquirer that you are MOTO approved with, you cannot conduct automated credit card transactions.

You must set up a business agreement with a bank card acquirer that includes arranging for the settlement of credit card purchases between your bank and the customer's bank card issuer. Netscape secure credit card software communicates with a credit card gateway that is running at the bank card acquirer's site.

After your business agreement is in place, your bank card acquirer should provide you with the following parameters:

- Merchant Source ID
- Merchant ID
- Terminal ID
- Credit Card Gateway Host Name
- Credit Card Gateway Host Port Number

This information is required for configuring the LivePayment credit card processor.

For configuration information regarding credit card transactions, refer to Chapter 2 of the *Netscape LivePayment Developer's Handbook*.

Obtaining test processing parameters

In order to properly test your LivePayment application as a developer or while waiting for the setup of your merchant account, you must enable communications with a test bank card gateway. A test bank card gateway has been set up that your LivePayment-based application can use to send financial transactions and receive responses.

To communicate with that gateway you will need to complete a brief application form. Click on “Developer Sign-up” at the Netscape Home Page (<http://home.netscape.com/eng/LivePayment>) for more details.

After filling in the necessary forms, you will be forwarded the needed data parameters. You must already have obtained your VeriSign certificate before you can fill in the requested form.

Preparing the system for installation

You must prepare your system for installing LivePayment by performing a number of administrative tasks. These include:

- Verify your disk space
- Install the Netscape Navigator
- Create users and directories

- Unpack the distribution
- Install the Netscape Enterprise Server and Activate LiveWire
- Install the relational database

The following sections describe these tasks.

Verify your disk space

Before installing LivePayment be sure you have sufficient disk space available. See “Hardware and software requirements” on page 10 for more information.

Install the Netscape Navigator

The Netscape Navigator and accompanying documentation are *not* included in this distribution.

You must obtain the Netscape Navigator separately. It may be purchased shrinkwrapped or downloaded from the Netscape website. Follow its accompanying instructions to install it.

Make sure your system has a Netscape Navigator Version 3.0 installed.

Create users and directories

Create users and directories for the relational database, if you do not already have one (optional), and the Netscape Enterprise Server. Note that both of these users should have their home directory on the installation volume. This installation assumes you will be using Informix as your database. Make your own appropriate substitutions for the database user name and directories.

Unpack the distribution

For some of the installation tasks, you will need to work in a temporary directory called a “staging area.” You extract the contents of the distribution media to this staging area. In this example installation, the staging area is a

directory called `$TEMP_DIR`, meaning that you can name it anything you want, and that it's temporary. You should be logged in as the user with the appropriate file permissions.

IMPORTANT: You need at least 20 MB of available disk space for the staging area.

In the rest of this document, we will refer to this staging area as `$TEMP_DIR`.

If you are downloading the software, create the staging area directory, and download the software into it. Connect to the Netscape software distribution website and download the necessary software.

The software is also distributed on CD-ROM. For CD-ROM installation, you insert the CD-ROM into the CD-ROM drive, and it will automatically be recognized and mounted onto the filesystem.

If, for some reason, the automatic mounting utility is not functioning, manual mounting instructions follow.

Under Solaris 2.x, the volume manager `vold` is installed and on by default. If you are using `vold`, the CD-ROM is mounted automatically onto `/cdrom` and you can skip the section on "Mounting the CD-ROM Manually."

Mounting the CD-ROM manually

In the following instructions, the mount point is referred to as `/cdrom`. If your mount point has a different name, substitute that name for all references to `/cdrom`.

To mount your CD-ROM manually, perform the following steps:

1. Log in as the root user.

```
$ su root
Password: root_password
#
```

2. Create the "mount point" directory for mounting the CD-ROM by entering the following:

```
# mkdir /cdrom
```

3. Mount the CD-ROM to the mount point by entering the following:

```
# mount -r -F hsfs device_name /cdrom
```

You must have **root** user privileges to mount or unmount the CD-ROM. Be sure to unmount the CD-ROM before removing it from the drive.

4. Exit the root account by entering the following:

```
# exit
$
```

Creating the staging area

1. Create the staging area.

For example:

```
$ mkdir $TEMP_DIR
$ chmod 777 $TEMP_DIR
```

2. Change directories.

If you are downloading the distribution, change to the \$TEMP_DIR

```
$ cd $TEMP_DIR
```

Download the distribution.

OR:

If you are using the CD-ROM distribution, change to the
/cdrom/cdrom0/livepmt/solaris directory:

```
$ cd /cdrom/cdrom0/livepmt/solaris
```

3. List the contents of your directory

Type:

```
$ ls
```

On the CD-ROM you should see the following file:

```
lp10.tar - LivePayment US distribution
```

If you are downloading from the website, you would see the following file:

```
lp10.tar.z - LivePayment US distribution (in standard UNIX compress  
format)
```

Either file contains the following items:

- lp/README
- lp/lp-setup
- lp/lp.tar
- lp/artistic
- lp/perl
- lp/license.txt
- lp/loopback.txt
- lp/docs/devhand.pdf - *Netscape LivePayment Developer's Handbook* (in Adobe Acrobat format)
- lp/docs/GS_sol.pdf - *Getting Started with Netscape LivePayment* (this document in Adobe Acrobat format)

Install the Netscape Enterprise Server and Activate LiveWire

The Enterprise Server and accompanying documentation are distributed on separate media. Make sure your system has a Netscape Enterprise Server Version 2.0 installed. Follow the instructions contained in the Enterprise Server documentation to install and configure it.

NOTE: You must configure the Administration Server user to be the same user as the https server.

Security on the Enterprise Server need not be active, initially. Also, LivePayment will not operate with the Netscape Communication or Commerce Server 1.x. Upgrade your Communication or Commerce Server to an Enterprise Server before proceeding.

Be sure you have installed the LiveWire compiler **lwcomp** into **serverRoot/LiveWire/bin**, as instructed in the Enterprise Server documentation.. LivePayment sample applications must be compiled by **lwcomp** during installation.

Activate Netscape LiveWire

In order to run the LivePayment installation program successfully, you must activate LiveWire. Follow the steps below.

See “Restricting access to LiveWire applications” on page 27 for more information. Also see Chapter 1 of the *Netscape LiveWire Developer’s Guide*.

1. **Access the Netscape Administration Server Selector page.**
2. **Choose the Server on which you wish to activate LiveWire.**
3. **Click on the “Programs” button in the top navigation bar.**
4. **Click LiveWire in the left frame.**
5. **You will be prompted “Activate the LiveWire Application environment?”**

Choose “Yes.”

6. **Choose OK.**
7. **Close and save.**

Install the relational database

After you have installed the Enterprise Server follow the instructions for installing the Informix database. If you are planning to use Informix, and have purchased the Netscape LiveWire Pro product, install the Informix database that is included with that product.

Otherwise, be sure that your relational database is installed and operational. Consult the installation documentation accompanying your relational database.

Running the LivePayment Installation Program

This chapter describes how to use the LivePayment installation program to install LivePayment Version 1.0.

Topics in this section are listed below.

- Installing LivePayment on page 20

Installing LivePayment

After you have installed the Netscape Navigator, Netscape Enterprise Server, and the relational database, you are ready to install LivePayment. Be sure that LiveWire has been activated on the Enterprise Server. See Chapter 1 of the *Netscape LiveWire Developer's Guide* for more information.

Install LivePayment Version 1.0 as follows:

1. Become the root user by entering the following:

```
su root
```

2. Extract the contents of the LivePayment tarfile.

If you are installing from the CD-ROM distribution:

```
cd $TEMP_DIR
tar xvpf /cdrom/livepmt/solaris/lp10.tar
```

If you are downloading from the website:

```
cd $TEMP_DIR
uncompress lp10.tar.Z
tar xvpf lp10.tar
```

The following files are installed in the \$TEMP_DIR directory:

```
lp/README
lp/artistic
lp/lp-setup
lp/lp.tar
lp/perl
lp/license.txt
lp/loopback.txt
lp/docs/devhand.pdf
lp/docs/GS_sol.pdf
```

3. Change to the lp directory and run the lp-setup utility.

```
cd lp
lp-setup
```

The **lp-setup** utility will prompt you for directory information and ask if you agree to abide by the agreement contained in the **license.txt** file.

If the servers are still running when you execute **lp-setup**, **lp-setup** will warn you that the servers are running and ask you if you want to stop them with a “y/n.” If you enter “y”, the servers will be stopped prior to proceeding with the installation.

When the script completes, start up the Navigator and go to the admin server URL, for example:

```
http://host.domain:portNumber
```

where *portNumber* is the admin server's port number.

The Server Selector page will appear. You should add the home page to your Bookmarks. From here, you can click on the LivePayment link, and be taken to the LivePayment page.

4. Restart the administration server.

Change to the Enterprise Server root directory and run the **start-admin** script. For example:

```
cd serverRoot  
./start-admin
```

5. Restart the Enterprise Server.

Change to the Enterprise Server home directory and run the **start** script. For example:

```
cd serverRoot/https-5001  
./start
```


Postinstallation Configuration

This chapter describes tasks you may need to perform after you have installed LivePayment. Other values may need to be added over time.

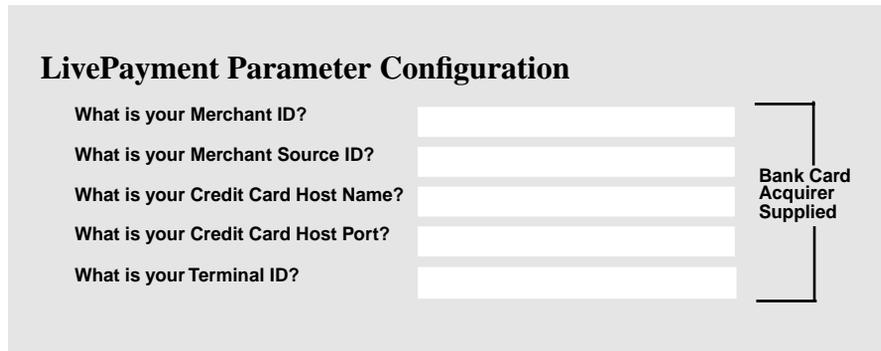
Topics in this section are listed below.

- Complete the configuration worksheet on page 24
- Security certificate information on page 24
- Enabling the sample applications on page 24
- The cpcmd utility on page 28
- Deinstalling LivePayment on page 30
- What's next on page 30

Complete the configuration worksheet

You should have the values required in the following worksheet handy. When you configure LivePayment, you will be expected to provide this information. See Chapter 2 of the *Netscape LivePayment Developer's Handbook* for instructions on configuring LivePayment.

Figure 3.1 Configuration Information Worksheet



The image shows a worksheet titled "LivePayment Parameter Configuration". It contains five rows of text prompts, each followed by a white rectangular input field. The prompts are: "What is your Merchant ID?", "What is your Merchant Source ID?", "What is your Credit Card Host Name?", "What is your Credit Card Host Port?", and "What is your Terminal ID?". To the right of these input fields is a vertical bracket that spans the height of the three middle rows. To the right of this bracket is the text "Bank Card Acquirer Supplied".

Details about how to obtain the configuration parameters are available from the Netscape home page at <http://home.netscape.com/eng/LivePayment>.

Security certificate information

For LivePayment Version 1.0, you can use the server's security certificate and key file for the card processor or you can get the card processor its own certificate. If you do not already have a certificate for your server, you need to apply for one from VeriSign Corporation. Follow the instructions that came with your server or contact VeriSign at <http://www.verisign.com>. See the *Netscape LivePayment Developer's Handbook* for additional information.

Enabling the sample applications

LivePayment includes three LiveWire applications: **LPAuthOnly**, **LPStart** and **LPAdmin**.

- The **LPAuthOnly** application performs credit card authorizations and stores the information in a text file named **lpAuthOnly.log** in the **/tmp** directory.

The **LPAuthOnly** application does not access a database, and can be used without installing a database.

- The **LPStart** application performs authorizations and stores the information in a database.
- The **LPAdmin** application performs captures/credits, settles batches, and reads transactions from a database.

All information is stored in a database using LiveWire. To use **LPStart** and **LPAdmin**, you must install a database.

To setup and run **LPStart**, follow the steps below:

1. Log in as user `informix`.

You should have the **.cshrc** file already created as a result of installing the Informix database.

Check to make sure **.cshrc** includes the following statements or equivalent statements:

```
setenv INFORMIXDIR /usr/informix
setenv INFORMIXSERVER ifmx_online
set path=($path $INFORMIXDIR/bin)
```

Set these values in your environment, then:

```
source .cshrc
```

2. Change to the directory of the sample:

```
cd serverRoot/livepayment-ServerID/samples/LPStart/ifx
```

where `serverRoot/livepayment-ServerID` represents the directory where LivePayment is installed.

For example,

```
cd /usr/ns-home/livepayment-ServerID/samples/LPstart/  
ifx
```

3. Edit the credit card type control file `cardtype.unl`.

For Version 1.0, manually edit the file **cardtype.unl** to specifically *include* the credit card types you wish to honor. Do this before running the **livepay.csh** script to create the database for the sample application **LPStart**. To exclude certain types of credit cards, delete the lines in the **cardtype.unl** file that pertain to the card(s) you do not wish to accept.

WARNING: If you edit this file be sure that the file contains a carriage return after the last line of data.

4. Run the shell script `livepay.csh` **provided in this directory.**

This will create an Informix database called LIVEPAYMENT as well as the database tables.

```
./livepay.csh
```

5. Change to the `root` **user.**

```
su root
```

6. Change directory:

```
cd ..
```

7. Edit the `start.html` **file to define the Database Connection Properties.**

The following parameters must be defined:

DATABASE CONNECTION PROPERTIES:

<code>project.dbType</code>	<code>"yourtype"</code>	Database type (e.g. INFORMIX, ORACLE, etc.)
<code>project.dbServer</code>	<code>"yourserver"</code>	Database server name
<code>project.dbUsername</code>	<code>"youruser"</code>	Database username
<code>project.dbPassword</code>	<code>"yourpassword"</code>	Database password

For example:

```
project.dbType      = "INFORMIX";
project.dbServer    = "ifmx_online";
project.dbUsername  = "informix";
project.dbPassword  = "informix";
```

Also, the database name LIVEPAYMENT is the default for the Starter Application. It may be used to run the application as a demonstration, but should be changed in the **start.html** file when this application is modified for integration into your website.

```
project.dbName = "LIVEPAYMENT"; // Database name (default)
```

8. **To build the LPStart.web file, run the build script provided in the same directory.**

NOTE: the compiler **lwcomp** must be in your PATH.

```
build
```

9. **After the above steps, stop your Netscape server.**

10. **Set the Informix environment variables.**

IMPORTANT: If you are using Informix, make sure you set the Informix environment variables correctly in the Enterprise Server **start** script. This is to avoid resetting them every time you restart the server:

```
INFORMIXDIR = /usr/informix; export INFORMIXDIR
INFORMIXSERVER = ifmx_online; export INFORMIXSERVER
PATH = $PATH: $INFORMIXDIR/bin; export PATH
```

11. **Start your Netscape server.**

Restricting access to LiveWire applications

Access to the sample application **LPAdmin** is restricted by the same method that LiveWire uses to restrict access to **appmgr** and **dbadmin**. Consequently, when you install LivePayment, the install script will check to see if you have configured LiveWire to require the admin server password for LiveWire Appli-

cation Manager. If so, it adds **LPAdmin** as one of the applications to require the admin server password also. If not, it makes **LPAdmin**, **appmgr** and **dbadmin** require the admin server password to run.

Database error when starting sample applications

If you get a database error when attempting to start **LPStart**, check the following:

- Check to be sure that the “video” sample database included in LiveWire is operating correctly.
- Make sure the **livepay.csh** script was run correctly.
- Check that the INFORMIX environment variables were set properly for the effective server user prior to starting the server. Make sure the following or equivalent statements are set in the Enterprise Server **start** script:

```
INFORMIXDIR = /usr/informix; export INFORMIXDIR
INFORMIXSERVER = ifmx_online; export INFORMIXSERVER
PATH = $PATH: $INFORMIXDIR/bin; export PATH
```

The cpcmd utility

The **cpcmd** utility is supported for LivePayment Version 1.0. The **cpcmd** utility has several commands that perform credit card transactions. The utility is invoked by a Common Gateway Interface (CGI) program, directly from the OS shell, or by an automated script. For detailed information on using this utility to build your own applications, refer to the *Netscape LivePayment Developer's Handbook*.

Changing the default configuration file for cpcmd

Some values for arguments used by the **cpcmd** utility are set during configuration. Once set during configuration, you can use them as defaults when you write your application.

You can set the defaults for the following items:

- Merchant number
- Terminal number
- Password file

For example, for a command that requires the **TermNum** and **MerNum** arguments you can either use the arguments and their values, or you can leave the arguments out and the utility will use the defaults in the configuration file. The defaults are drawn from the **system.ini** default configuration file in the **../config** directory. If your configuration file is stored elsewhere, or has a different name, you can use the arguments **ConfigFile** and **ConfigDir** to specify a different directory or configuration file. You do not need to use these arguments if you use the default directory and filename.

These arguments can be used anywhere in the syntax. They are always optional.

Argument	Description
-ConfigFile <i>configuration_file</i>	The name of the file in which your configuration is stored.
-ConfigDir <i>configuration_directory</i>	The directory where your configuration file is stored.

Output The output is the output of the command with which you are using **ConfigFile** and **ConfigDir**.

Example The following example shows an example of how to use **ConfigFile** and **ConfigDir** with the **GetCurrentBatch** command.

```
cpcmd -command getcurrentbatch -configfile system.ini -configdir  
/livepayment-server/config
```

```
batch number 00023
```

For more information on configuring the defaults, see Chapter 2 of the *Netscape LivePayment Developer's Handbook*, "Setting up Netscape LivePayment."

Deinstalling LivePayment

In the unlikely event that you would wish to deinstall LivePayment, perform the following:

1. **Run the `lp-setup` utility using the uninstall flag.**

lp-setup has an option for uninstall (**-d**), version (**-v**) and help (**-h**).

You don't have to stop the Administration or http servers manually. The **lp-setup** utility will ask you if the servers can be stopped. If you respond "yes", it will stop them for you.

Type:

```
lp-setup -d
```

2. **Restart the Administration and http servers.**

What's next

Proceed to your *Netscape LivePayment Developer's Handbook* to configure and customize Netscape LivePayment.