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You will need to visit our web site www.fptech.net to download the license for GIServer "GIServer.lic" or request the license via email or phone.

GISERVER Installation

Windows Install:

1. If you are installing GIServer from a fP Technologies installation CD, go to step 2. If you have downloaded fileProGI from our website, unzip the fileProGI client download file into a temporary directory now.

2. Download the giserver.lic file. Refer to section "**Obtaining the giserver.lic file**".

3. Run Setup.exe from the Windows Start Run dialog box or by clicking on the setup.exe in the temporary directory or CD if provided.

Note: If your system is setup to autorun CD media, the setup.exe will be automatically launched.

4. Answer the prompts that the Install Shield asks for.

5. The installation will put a GIServer Icon on your Desktop and/or install GIServer as a Service.

6. Copy the downloaded giserver.lic from step 2 into the ~/fp/giserver/lib directory.

7. Either click on the desktop icon to start GIServer. Note that if you have installed GIServer as a service, you can also use the control panel "Services" icon to initially start the service. The service will be automatically started for you on subsequent system startups. Refer to Windows "Services" for more detail.

8. After installing GIServer, install GIadmin to manage/update your GIServer installation(s).

9. After installing GIServer, install GIadmin to manage/update your GIServer installation(s). Refer to GIadmin Installation for further details. Follow the install shield instructions for both the GIAdmin and the fileProGI.

Obtaining the giserver.lic file:

Before going to the website, make sure you have the following information.

* Serial Number of the 5.0 software you are running with GIServer.

* Port# Giserver will listen to. (4350 is default)

- * Number Concurrent Connections that you purchased.
- * Email address that is registered with fP Technologies, Inc.
- * MAC_Address for the computer that GIServer will be running on.

Getting the MAC Address:

Windows:

Note: The MAC_Address is entered as 12 characters with no whitespace or punctuation you can find the MAC address of the primary ethernet adapter on a Windows system by using "IPCONFIG /ALL". When running this option, look for a line containing "Physical Address" for your primary Ethernet adapter. You will see one or more devices listed similar to the following:

```

0 Ethernet adapter :
Description . . . . . : PPP Adapter.
Physical Address. . . . . : 44-45-53-54-00-00
DHCP Enabled. . . . . : Yes
IP Address. . . . . : 0.0.0.0
Subnet Mask . . . . . : 0.0.0.0
Default Gateway . . . . . :
DHCP Server . . . . . : 255.255.255.255
Primary WINS Server . . . . . :
Secondary WINS Server . . . . . :
Lease Obtained. . . . . :
Lease Expires . . . . . :

1 Ethernet adapter :
Description . . . . . : NDIS 5.0 driver
Physical Address. . . . . : 00-E0-7D-91-6C-3A
DHCP Enabled. . . . . : Yes
IP Address. . . . . : 192.168.0.5
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.2
DHCP Server . . . . . : 192.168.0.2
Primary WINS Server . . . . . :
Secondary WINS Server . . . . . :
Lease Obtained. . . . . : 02 28 03 9:49:02 AM
Lease Expires . . . . . : 03 01 03 9:49:02 AM

```

Note that there are two Ethernet adapters identified in the above example, one for the modem (PPP Adapter) and another (NDIS 5.0 driver) for the primary ethernet adapter. The MAC address (Physical Address) of the primary ethernet adapter is displayed as 00-E0-7D-91-6C-3A. This value would be entered as 00E07D916C3A when submitting your request for the giserver.lic

NOTE: You can also use WINIPCFG to get this information.

Now go to the **Download License** section.

SCO UNIX & Other UNIX:

Note: The MAC_Address is entered as 12 characters with no whitespace or punctuation you can find the MAC address of the primary ethernet adapter on your SCO system by using "ifconfig -a" and look for a line containing "ether" for your primary Ethernet adapter.

An example of what you will see when running "ifconfig -a" follows.

```
lo0: flags=4049 mtu 16384
inet 127.0.0.1 netmask ff000000
inet/perf: recv size: 49152; send size: 49152;
full-size frames: 1
inet/options: -rfc1323
net0: flags=4043 mtu 1500
inet 64.220.102.170 netmask fffffffe0 broadcast 64.220.102.191
inet/perf:
recv size: 24576;
send size: 24576; full-size frames: 1
inet/options: rfc1323
ether 00:10:5a:20:cd:c4
```

The MAC address (ether) of the primary ethernet adapter is displayed as 00:10:5a:20:cd:c4

This value would be entered as 00105a20cdc4 when submitting your request for the giserver.lic file.

Now go to the **Download License** section.

LINUX:

Note: The MAC_Address is entered as 12 characters with no whitespace or punctuation you can find the MAC address of the primary ethernet adapter on your LINUX system by using "ifconfig". look for a line containing "HWaddr" for your primary Ethernet adapter. You will see one or more devices listed similar to the following.

```
eth0    Link encap:Ethernet  HWaddr 00:50:DA:0D:1B:C0
        inet addr:64.220.102.180
        Bcast:64.220.102.191  Mask:255.255.255.224
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:77134 errors:0 dropped:0 overruns:0 frame:
        TX packets:24540 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:100
        RX bytes:46417456 (44.2 Mb)  TX bytes:4504332 (4.2 Mb)
        Interrupt:11 Base address:0x1000

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:692 errors:0 dropped:0 overruns:0 frame:0
        TX packets:692 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
```

RX bytes:48363 (47.2 Kb)
TX bytes:48363 (47.2 Kb)

The MAC address (Physical Address) of the primary ethernet adapter is displayed as 00:50:DA:0D:1B:C0. This value would be entered as 0050DA0D1BC0 when downloading your giserver.lic file.

Download License:

Point your browser to:

[fptech website](#)

Then click on:

filePro - Downloads - giserver License File Download -

Be careful entering the required information. Once you have entered the information, the resulting giserver.lic file will be locked to that e.g. MAC address, Port and Maximum Concurrent Connection count. You will not be able to re-generate a new giserver.lic file with different settings without contacting fP Technologies sales. You will be able to re-generate another copy with the current settings at any time.

SCO UNIX Install:

Please note: To run the GIServer, the video display mode must be set to at least 256 colors or above.

SCO Open Server 5.0.5 GIServer Installation Notes

If you have a previous version of OSR5 you MUST upgrade to version 5.0.5., have the UDK Compatibility Software Version 7.11 (OSRcompat711) and java2.jre2 installed in order to run GIServer. (See instructions below).

giserver.gz is a gzipped tar file. To gunzip giserver.gz you must have 'gunzip'. If you do not have it you can download gzip.tar from the "Download" section of our web site, www.fptechtechnologies.com.

cd to a directory that is in the PATH then extract gzip.tar with:

```
tar xvf gzip.tar
```

To gunzip giserver.gz type:

```
gunzip giserver.gz
```

Once gunzipped it will be called GIServer.

GIServer can be installed in the same directory where you keep filePro but it is usually kept in a separate directory, for example, (/appl/fp), however, GIServer does not have to be installed on the same machine that has filePro. It can be kept on another machine on the network.

To install GIServer:

1. Change to the directory where you have decided to install GIServer. In this example we will use /appl/fp for the install directory and /tmp/giserver for the location of the GIServer tarball.

```
cd /appl/fp
```

2. Extract giserver with:

```
tar xvf /tmp/giserver
```

3. To finish the install:

```
./giserver.finish
```

4. Obtain file giserver.lic from our website. Refer to the section **"Obtaining the giserver.lic file"**.

5. Place the downloaded giserver.lic into the ~/fp/giserver/lib directory.

IMPORTANT:

GIServer on OSR5.0.5 **REQUIRES** the UDK Compatibility Software Version 7.11 (OSRcompat711) and java2.jre2 in order to run.

Un-install any previous version of UDK Compatibility Software before installing OSRcompat711.

To install OSRcompat711:

Download DL27510P000.tar

Move DL27510P000.tar file into a directory called osrcompat

Change to the ./osrcompat directory

Extract the file with:

```
tar -xvf DL27510P000.tar
```

Uncompress the resulting file with:

```
uncompress OSRcompat.711.pkg.Z
```

Install OSRcompat.711.pkg with:

```
pkgadd -d /OSRcompat.711.pkg
```

YOU ALSO NEED java2.jre2. If you already have a previous version of java installed it does not have to be uninstalled; however, you do need to put /usr/jre2/bin into the PATH prior to the existing java address.

For LINUX servers:

The distribution CD contains all files needed to install GIServer on Linux platforms. The java2 installation varies depending on the platform you are running. There is a separate Readme_java file for each platform supported.

The first step is to extract the GIServer files (into /appl/fp recommended) and run giserver/finish.

See Readme_giserver (Readme_fpserver) for instructions. If you don't have a proper version of java2 installed you will be informed and told which java package to install. The java2 installation varies depending on the platform you are running. There are separate Readme_javaPLATFORM and java2jre2_PLATFORM.tar files for each platform supported.

Installing java2: ---

GIServer requires java2 version 1.2 or better.

If you are using the GIServer CD then mount the CD using the instructions that you received with the CD.

If you downloaded giserver.gz off of the web site then the files you will need to install java2 are in rpm format in java2jre2_RPM.tar and self-extracting binary format in java2jre2_Linux.tar. They are located under Utilities - linux. Download the appropriate file to the /mnt directory.

java2jre2_Linux.tar contains j2re_1_3_0-linux.bin and
java2jre2_RPM.tar contains j2re-1_3_0-linux.rpm.bin.

To install j2re_1_3_0-linux.tar:

If not already root enter:	su
Move to /usr/java directory	cd /usr/java
Extract j2re-1_3_0-linux.bin	tar xvf java2jre2_Linux.tar
Install j2re-1_3_0-linux.bin	./j2re-1_3_0-linux.bin
java2 is installed.	

To install j2re_1_3_0-linux-rpm.tar:

If not already root enter:	su
Move to /usr/java directory	cd /usr/java
Extract j2re-1_3_0-linux-rpm.bin	tar xvf java2jre2_RPM.tar

```
Extract j2re-1_3_0-linux.rpm      ./j2re-1_3_0-linux-rpm.bin

Install j2re-1_3_0-linux.rpm      rpm -iv j2re-1_3_0-
linux.rpm
```

Note: It can happen that your installation may fail with a message such as "glibc >= 2.1.2-11 is needed by jre-1.3" even though glibc2.1.29 (or greater) is on your system. This can happen when your glibc was not installed as part of an rpm package and is therefore not on the rpm file list. In that case, this JRE 1.3 rpm installation package won't recognize that glibc is installed. To force the JRE 1.3 installation to proceed, use the --force option:

```
rpm -iv --force j2re-1_3_0-linux.rpm
```

To install the Java Plug-in follow these steps:

Uninstall previous installation of the Java Plug-in, if applicable.

```
rm -fr $HOME/.netscape/java
rm $HOME/.netscape/plugins/javapulugin.so
```

Set the NPX_PLUGIN_PATH environment variable:

```
export NPX_PLUGIN_PATH=/usr/java/jre1.3/plugin/i386
```

Start your Netscape browser. If your browser is already running, close it and restart it. Close and restart your Netscape browser again. This is necessary because of bug 4358142.

GIservr Installation Notes: 12/26/00

If you are using the GIservr CD then mount the CD using the instructions that you received with the CD.

giservr.gz is a gzipped tar file. If you don't have 'gzip' see the Readme_java for your operating system.

In this Readme the /mnt directory will be used to download/install all packages.

Installing GIservr Linux:

GIservr will normally be installed in an giservr directory under the fp directory. If the fp directory is /appl/fp, then when the install is complete, there will be an /appl/fp/giservr directory and giservr.jar will be in it.

To install GIservr:

1. Change to the directory where you have decided to install GIservr.

In this example we will use /appl/fp for the install directory and /mnt/giserver.gz for the location of the GIServer tarball.

```
cd /appl/fp
```

2. Extract giserver with:

```
tar xvf /tmp/giserver
```

3. To finish the install:

```
giserver.finish
```

4. Obtain file giserver.lic from our website. Refer to section **"Obtaining the giserver.lic file"**.

5. Place giserver.lic into the /appl/fp/giserver/lib directory.

6. GIServer is now ready to run. GIServer can be started from either a term window or a character screen by typing: ./startgi& from within the ~/appl/fp/giserver directory.

Configuring GIServer ---

To start GIServer type: GIServer

The first time you run GIServer you will need to 'Setup Users'. To do this Click on 'Edits' then select 'User Configuration'. Double-click on 'username.cfg' and change the 'password:' field to the password for the first user.

Make sure to press when leaving the field or the field value will NOT be changed.

Click on 'file' then 'save-as' and enter an appropriate filename.

If the user's Unix login name is 'fred' - then use 'fred.cfg'.

Repeat this process for all users.

Change History for GIServer

- * 1.13 added GracePeriodWarning
- * 1.14 modified Producer.doRawMode to use BufferedOutputStream
- * 1.15 bug fix for change in 1.14
- * 1.16 internally buffer raw mode input until newline or end_of_raw_mode sequence received
- * 1.17 back out 1.16 changes
- * 1.18 flush raw mode output stream before 'sleep' if anything in buffer
- * 1.19 now accept (and log) version number of filePro programs in PROCESS_INIT message

- * 1.20 set FPCLIENT_FEATURE=7 for GIClient connections - tmp workaround for filePro purposes
- * 1.21 use FileInputStream and byte[] for reading license instead of FileReader and char[] to avoid encoding problems
- * 1.22 FEATURES_FLAG changes to CONNECTION_INFO message for Ken
- * 1.23 Changed server response to too many connections now the server sends a message and closes the socket
- * 1.24 numerous changes for admin module
- * 1.25 fix for raw mode timing bug - moved mode switch to before buffer flush
- * 1.26 changed secondary license file updating to remove requirement for Java 1.3 or beyond
- * 1.261 fixed potential "NullPointerException" in logging in Producer.doRawMode
- * 1.262 added debug code to show when messages are actually sent
- * 1.263 made raw mode sleep code conditional on Windows platform
- * 1.264 additional debugging code
- * 1.265 additional debugging code
- * 1.266 additional debugging code - Message Types as text
- * 1.267 added sending log files to admin module for remote viewing
- * 1.268a added 1.4 conditional code to force disk updates
- * 1.269 only call 1268a conditional code when logs are requested by GIadmin module
- * 1.270 added debugging info for forced updates
- * 1.271 removed additional debugging info for forced updates
- * 1.272 added logging (in server.err) of failed admin logins
- * 1.300 modified license file format to accommodate disconnected windows laptops
- * 1.301 only do check for primary drive serial number on Windows
- * 1.302 closed hole where 000000000000 was considered a valid MAC address for licensing fixed bug introduced in 1.300 where only the first of multiple MAC addresses was checked
- * 1.303 added logging of default user properties to logging of environment (if logEnvironment=true is set for user)
- * 1.304 modified loading of gethost library to show java.library.path if load fails
- * 1.305 modified login routines to allow for empty password if expires (in giserver.cfg) is set to anything other than 0 empty password are disallowed.

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rev. 03/30/2006