Installation Manual

This manual includes installation instructions for

AfiFarm, AfiGoat, and AfiSheep Dairy Herd Management Programs

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February 2008

WARNINGS

1. Read this manual carefully.
    Proper handling of the equipment is the basis for correct functioning.

2. Skilled and authorized technicians must carry out installation of the equipment.

3. The system and its components are powered by electricity for a main power supply. The power is sufficient to cause serious personal injury or even death. Check that the electricity is disconnected when assembling and/or repairing electrical and electronic components.

4. Never remove cover/s or parts of the system from the system before the electrical power is disconnected.

5. Do not flush the electrical or electronic equipment with water or any other liquid.

6. It is the responsibility of the operator to install, operate, and maintain the system in accordance with all applicable codes, regulations, by-laws and safety regulations.

7. High voltage surges and other power irregularities can cause extensive damage to a system. It is the responsibility of the operator to provide a power protection system.

8. The equipment must be used only for the described purpose.

9. This system has been checked for viruses prior to supply.
    If in the course of a service call a virus is detected, removal of the virus, and any software or hardware repairs resulting from it, will be charged to the purchaser.

DISCLAIMER

S.A.E. Afikim shall not be responsible for any damage, whether pecuniary, personal, or consequential (for example, loss of profits) or otherwise, that may be caused by or result from the incorrect installation, usage, calibration, data inputting, or inadequate cleaning or servicing of the system.

TRADEMARKS, COPYRIGHTS and PATENTS apply

Note, before installation

The amount of time needed for converting data depends on the amount of data that is translated. A large amount of data may take some time to convert.

**Schedule enough time, between milkings, for installation.**

Note

AfiFarm is compatible with Microsoft operating systems Windows XP$^{®}$ and Vista$^{®}$

Note: Mismatched Installations

The installation procedure for *AfiGoat* and *AfiSheep* is similar to the installation of *AfiFarm*.

If attempting to install *AfiGoat* or *AfiSheep* over *AfiFarm*, the following window appears, and the installation process will be stopped.
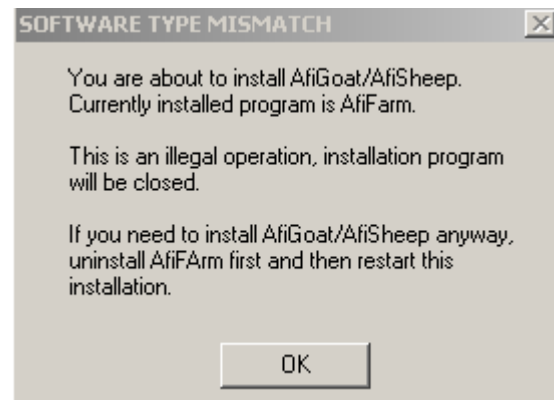
- A similar message will be displayed in an attempt to install *AfiFarm* over *AfiGoat* or *AfiSheep*. If this occurs, contact your local dealer.

- If you try to install *AfiSheep* over *AfiGoat*, the following message will appear:

A similar message will be appear when attempting to install *AfiGoat* over *AfiSheep*.

Table of Contents

Chapter 1　Overview

AfiFarm can be installed in several system configurations. The computer requirements vary according to the system. This chapter explains the general layout of the possible system.

Off-line Configuration

AfiFarm is installed into a single computer that is not connected to the data input system. Data is entered manually into the computer.

On-line Configuration

There are a number of options for on-line configuration.

In an on-line configuration, a real-time system is continously operating.

Single Computer System

AfiFarm is installed in a single computer that is connected to the data input system. The computer is used to control operations as well as to produce reports.

Multi-Computer System

In a multi-computer system any computer may be used for collecting data and producing reports.

- One computer is used to configure the system (main computer); and
- The other computer or computers (sub-computer) receive the configuration from the main computer.

AfiFarm is designed for systems of up to nine computers.

AfiFarm is installed on all computers in the system. The report facility is available on all computers in the system.

Network Connections

AfiFarm operates under any network that is supported by MS Windows®.

Abbreviations

CD	Compact Disk
CPU	Central Processing Unit
GB	Gigabytes
MB	Megabyte
MHZ	Megahertz
PC	Personal Computer
RAM	Random Access Memory
USB	Universal Serial Bus

Chapter 2   Computer Requirements

Computer requirements vary according to the computer configuration of the system, the role of the computer, and the size of the herd.

First, computer requirements are listed for herds with *less* than 500 cows, then requirements are listed for larger herds.

Requirements for Herds with Less than 500 Cows

Computer requirements for herds with less than 500 cows are listed below.

Report Computer in Multi-computer System for Smaller Herds

General Requirements

- Pentium IV (or higher) CPU or equivalent.
- Processor speed 3.0 GHz (or higher).
- 1024 MB RAM.
- 40 GB hard disk with at least 25% unused space.
- At least 2 GB additional space for the program.
- CD-ROM.
- PS/2 MOUSE.
- Keyboard.
- Color monitor.

Special Requirements

- Network supporting TCP/IP protocol, to connect (a) control computer/s in a system of two or three computers. The network should be transparent for a UDP broadcast.
- Inkjet or laser printer.
- Flash drive (DISK ON KEY) of 512 MB or other backup media.
- **The hard disk power saving feature and a sleep mode feature of Windows should be off**.
- UPS unit – recommended.

Software Requirements

Operating system: WINDOWS XP$^®$ Service Pack 2 or WINDOWS VISTA$^®$.

Control Computer in Multi-Computer System for Smaller Herds

General Requirements

- Pentium IV (or higher) CPU or equivalent.
- Processor speed 3.0 GHz or higher.
- 1024 MB RAM.
- 40 GB hard disk with at least 25% unused space.
- At least 2 GB additional space for the program.
- CD-ROM.
- PS/2 MOUSE.
- Keyboard.
- Color monitor.

Special Requirements

- Network supporting TCP/IP protocol to connect with another computer (other computers). The network should be transparent for a UDP broadcast.
- A free PCI slot for each AfiCom card.
- The design of the PC enclosure should allow the mounting of all the AfiCom-s and AfiPort-s required by the configuration of the Afi system (PC case models Midi or Full-Tower).
- **The hard disk power saving feature and a sleep mode feature of Windows should be off**.
- UPS unit.

Software Requirements

Operating system: WINDOWS XP$^{®}$ Service Pack 2 or WINDOWS VISTA$^{®}$..

Requirements for Herds with More than 500 Cows

This section lists computer requirements for systems of large herds.

Main Computer in Multi-Computer System for Large Herds

General Requirements

- Pentium IV (or higher) CPU or equivalent.
- Processor speed 3.4 GHz (or higher).
- 2048 MB RAM.
- 80 GB hard disk with at least 25% unused space.
- At least 2 GB additional space for the program
- CD-ROM.
- PS/2 MOUSE.
- Keyboard.
- Color monitor.

Special Requirements

- Network supporting TCP/IP protocol to communicate to control computer/s, in a multi-computer system. The network should support UDP broadcast.
- Inkjet or laser printer.
- Flash drive (DISK ON KEY) of 1 GB or other backup media.
- **The hard disk power saving feature and a sleep mode feature of Windows should be off**.
- UPS unit – recommended.

Software Requirements

Operating system: WINDOWS XP® Service Pack 2 or WINDOWS VISTA®.

Sub-computer in Multi-computer System for Large Herds

General Requirements

- Pentium IV (or higher) CPU or equivalent.
- Processor speed 3.4 GHz or higher.
- 2048 MB RAM.
- 80 GB hard disk with at least 25% unused space.
- At least 2 GB additional space for the program.
- CD-ROM.
- PS/2 MOUSE.
- Keyboard.
- Color monitor.

Special Requirements

- Network supporting TCP/IP protocol, to enable communication with other computers. The network support UDP broadcasting.
- A free PCI slot for each *AfiCom1* card.
- **The hard disk power saving feature, and sleep mode feature of Windows should be turned off**.
- UPS unit.

Software Requirements

Operating system: WINDOWS XP® Service Pack 2, or WINDOWS VISTA®.

Chapter 3   General Installation Procedure

Installation includes installing:

- An *AfiCom1* communication card (as described in the *AfiCom1* installation manual)
- *AfiFarm* herd management program
- One license HASP plug is supplied together with the *AfiFarm* installation CD. The HASP plug should be installed on the management computer.

Installation of *AfiFarm* depends on the existing situation:

- Installation on a new computer
- Upgrading *AfiFarm* version 3.04x or earlier

    Before upgrading, compress the *AfiFarm* database and save a backup of the database –

    - In *AfiFarm*'s menu bar press **Tools ➢ DB Utilities ➢ DB Compression**. This procedure may take several minutes.
    - Backup the AfiFarm data onto a portable media.

- Upgrading *AfiFarm* version 3.05 or later
- Upgrading *Afi2000*
- Upgrading *AfiMilk DOS*

The current installation CD may be used for all of these operations.

Installing the *AfiCom1* Card in the Control Computer

Install the *AfiCom1* communication card in the control computer as follows:

1. Turn the computer off.

2. Unplug the computer.

3. Remove any covers so you have access to the card slots.

4. Insert the *AfiCom1* board into a slot of the mother board.

5. Plug in the computer.

6. Turn the computer on.

7. Place the *AfiCom1* installation CD into a CD ROM drive.

8. When the **Found new hardware** window appears, follow instructions in the *Windows* wizard and *AfiCom1* installation instructions.

    If a previous version of *AfiFarm* was installed, drivers will be updated automatically.

9. When the **Hardware Installation** window appears, press [Continue Anyway].

Figure 1 The Hardware Installation window

After pressing [Continue Anyway] Installation of the card is complete.

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Installing *AfiFarm* License Plug on the Main Computer

Install the *AfiFarm* HASP plug on the main computer as follows:

10. After installing *AfiFarm* in the main computer, when the **Restart Computer** window appears, (on page 29) insert the *AfiFarm* license plug in an empty USB slot.
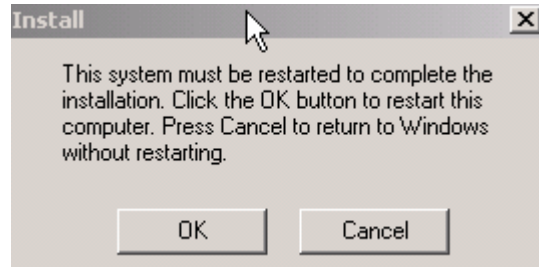

Figure 2 the Restart Computer window

11. Click OK to restart the computer.

Installing *AfiFarm* on Sub Computers

Install AfiFarm into the system in the following order:

1. Install *AfiFarm* in sub computers *only* after installing *AfiFarm* in the main computer.

2. After completion of installation in a sub computer, make a backup on the main computer. Then restore the backup data, from the main computer, to the sub computer, as described in Chapter 5 of this manual.

Chapter 4   Installation

Before starting installation, close all *Windows*® programs, including *AfiFarm* as well as the *Afimen* real time module. On multi-computer systems, close both applications on all computers. Then, upgrade each computer, one by one.

Install the *AfiFarm* program as follows.

Data Preparation

If necessary, prepare previous herd management data as follows:

- If upgrading a previous version of *AfiFarm*, compress the *AfiFarm* database. In the menu bar in *AfiFarm*, press **Tools** ➢ **DB Utilities** ➢ **DB Compression**. This may take several minutes.

- If you are upgrading from a *previous AfiMilk* platform (*AfiMilk DOS* or *Afi2000*), copy folders \Afimilk and/or \Afiwin into the root directory, in the hard drive of the main computer, where *AfiFarm* will be installed. For example: Local Disk (C:) .
  AFIMILK
  afiwin

- If *AfiFarm* is replacing *another* herd management program, convert the data of the previous software into file AFI_MS.DAT using the ADIS protocol. Place the converted data in folder \Afifarm\Data\MS.

Start of Installation and Net Framework Installation

1. Insert the *AfiFarm* CD in the CD drive.

    The AfiFarm Installation desktop background appears. Five basic steps appear at the bottom of the screen.

Figure 3 the *AfiFarm* Installation Desktop background

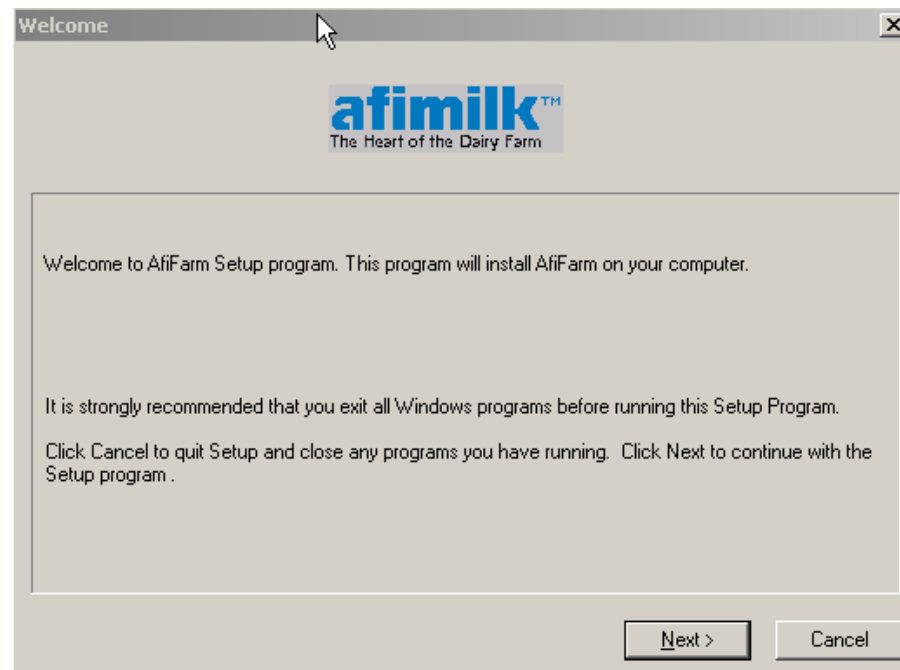After the **AfiFarm Installation** background appears, the **Welcome** window opens.

Figure 4 the Welcome window

If the **Welcome** window does not open after one minute:

  a. Click *Start/Run/Browse/*.

  b. Browse to *CD ROM/Setup.exe.*

  c. Click Setup.exe.

  d. In the **Setup** window, click OK .

2. Click   Next >   .

   The **License Agreement** window appears:

Figure 5 the License Agreement Window

3. Read the End User License Agreement, click [⦿ I accept the agreement] .
    and click [Next >] .

    The **Microsoft .Net Framework 3.5 Setup** window window opens.

Figure 6 the Microsoft .Net Framework 3.5 Setup window

3. Read the terms, select [○ I have read and ACCEPT the terms of the License Agreement] , and
    press [Install >] .

4. Follow instructions in this setup dialog series, until the MS .NET Framework 3.5
    is installed.

The **Setup Complete** window appears.
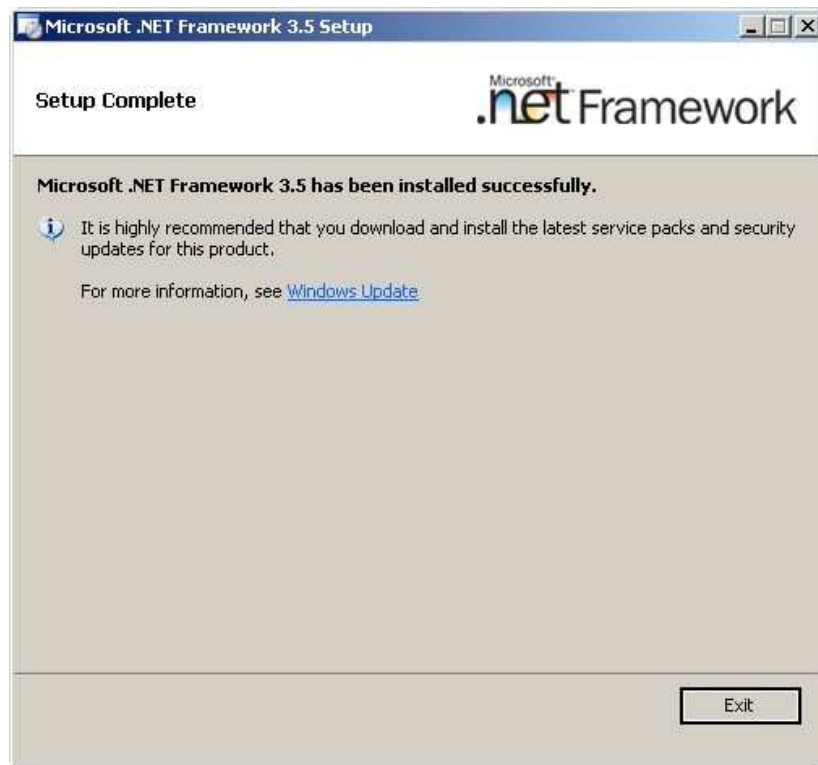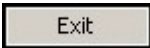
Figure 7 the Net Framework Setup Complete window

5. Click [Exit] .
   A **Restart Computer** window *may* open.

6. If the **Restart Computer** window opens, select Restart Later.

Note	If Microsoft .Net Framework *is* installed in the computer, this step will be skipped.

7. Click [Next >].

    The **Microsoft SQL Server 2005 Setup** window opens.

Figure 8 the Microsoft SQL Server 2005 Setup window

8. Follow instructions in this dialog series until The MS SQL server is installed.

9. When the **Restart Computer** window opens, click [OK] to restart the computer. After restarting the computer, the installation process continues automatically.

Note	If Microsoft SQL Server 2005 is already installed on your computer, this step will be skipped and the installation will continue without restarting.

Continue installation as described in the following section.

Selection of Installation Specifications

When the computer restarts, the installation program checks if a previous version of *AfiMilk* software is installed, and the following notice appears:
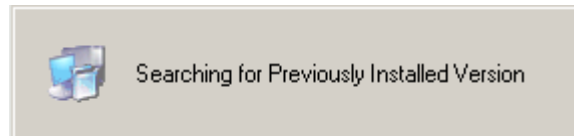
Figure 9 Searching for Previously Installed Version

1. After this notice appears, one of the following occurs:
   - If installing *AfiFarm* in a computer where no *AfiMilk* software has been installed, the **Select Destination Drive** window opens.
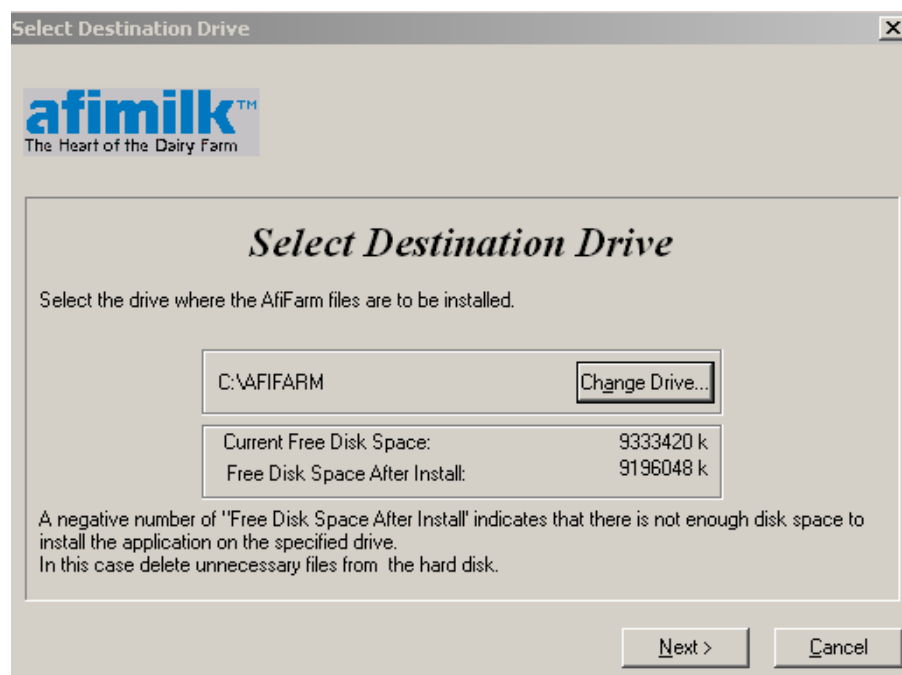

Figure 10 the Select Destination Drive window

If necessary, click [Change Drive...] and select another available hard drive. Otherwise click [Next >]. And go to step one, below.

- If upgrading from a previous version of *AfiFarm*, the **Version Upgrade Confirmation** window opens.
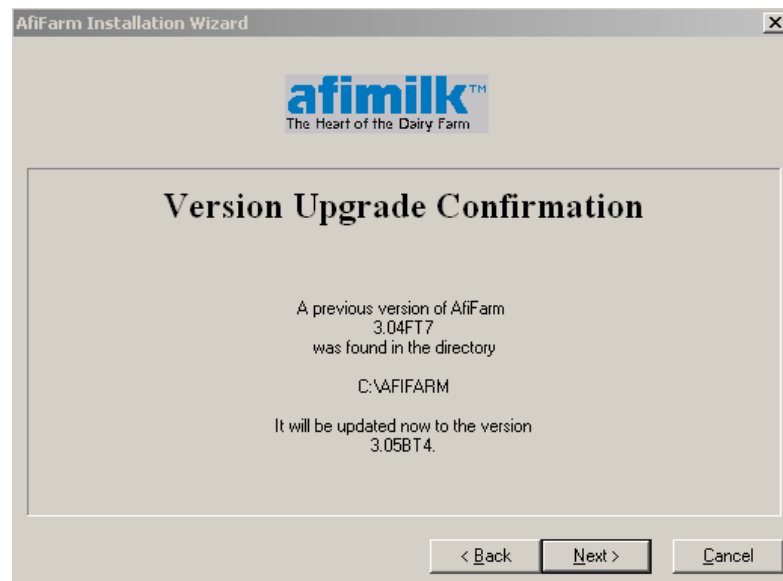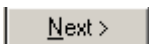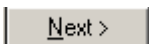

Figure 11 the **Version Upgrade Confirmation** window

Click Next > .

- If upgrading from *Afi2000*, the **Upgrade from Afi2000 Confirmation** window opens.

Click Next > .

2. One of the following occurs:

- If installing *AfiMilk* software for the first time, the **Select Function** window opens.
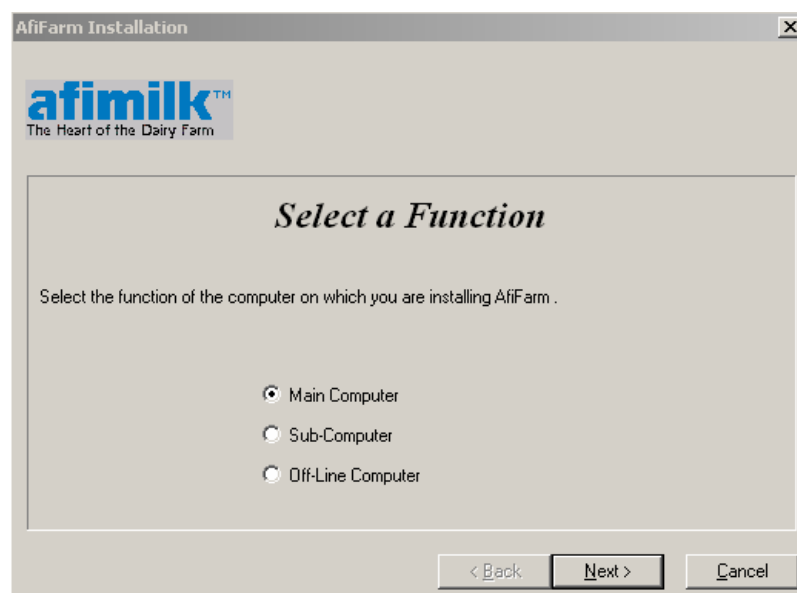

Figure 12 the Select Function window

Select the type of computer into which you are installing *AfiFarm* 3.05.

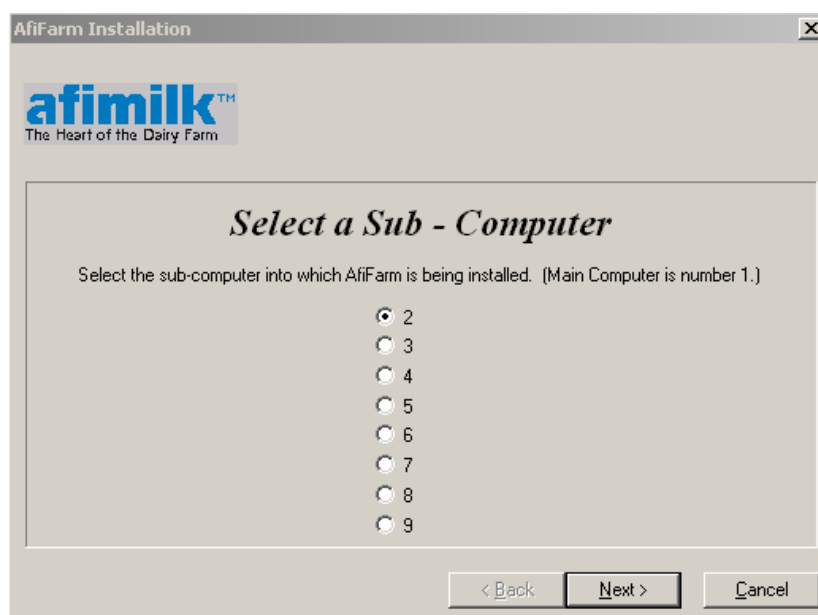If Sub-Computer is selected the **Select Sub-computer** window opens.

Figure 13 the Select Sub-Computer window

Select the computer number into which *AfiFarm* is being installed, click [Next >], and go to step 3, below.

- If upgrading *AfiFarm*, a window opens that displays the function of the computer. For example, if upgrading a main computer to *AfiFarm* 3.05, the **Select Installation Type** window appears.
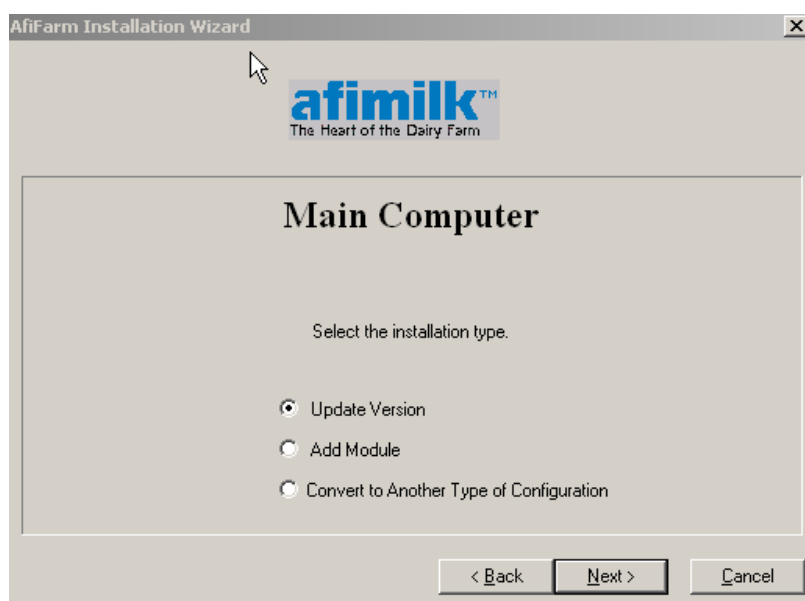

Figure 14 the Select Installation Type window

The Add Module and Convert to Another Type of Configuration options are explained in Chapter 6.

If this window opens, select the installation type.

Click [Next >].

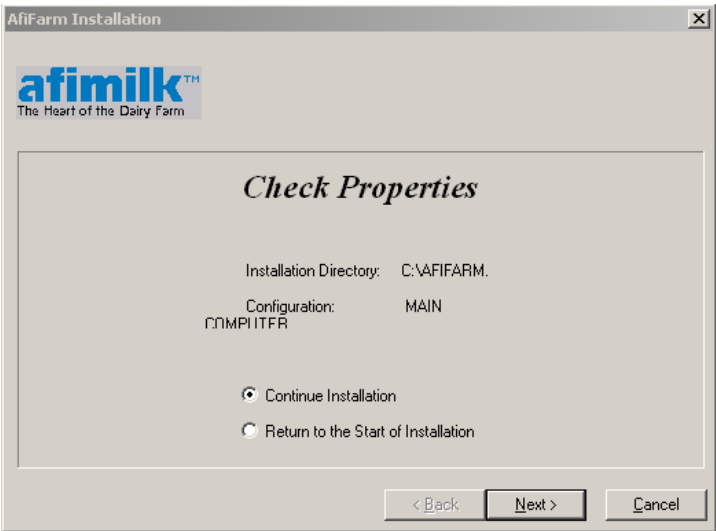3. The **Check Properties** window appears.

Figure 15 the Check Properties window

If needed, return and reselect the computer function by clicking
⊙ Return to the Start of Installation.

4. Click [Next >].

The **Select Additional Languages** window opens.

Figure 16 the Select Additional Languages window

Select languages by checking appropriate box. The installation program
automatically checks installed languages. If a file of a language is not
available, the checkbox of the language will be "grayed out." In the window
displayed above, the Chineses language file is not available, and the Chinese
option is "grayed out."

Note	*AfiFarm* is available in all languages listed in window displayed above, including Chinese, however the *AfiFarm* User Manual and the Help section of the program may not be available in all languages listed.

5. Click [Next >].

Installation of the User Manual and Completion

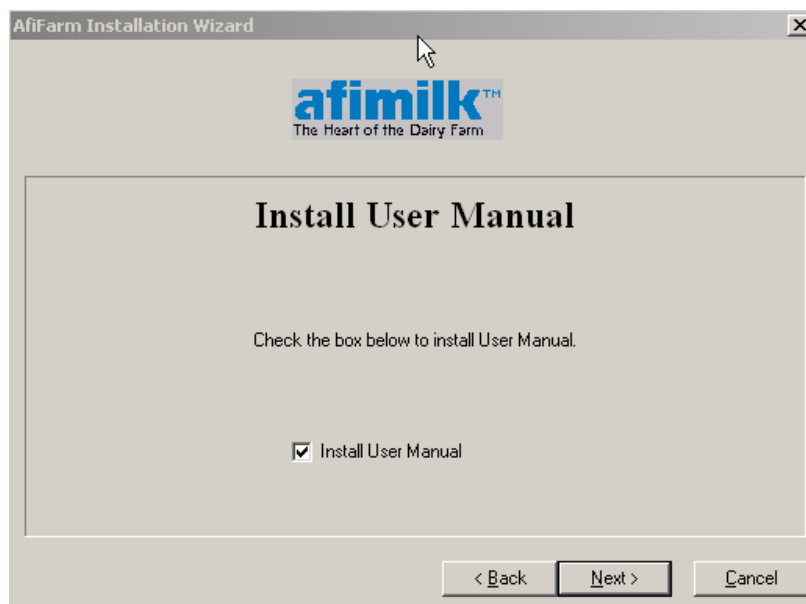After defining languages, the **Install User Manual** window appears.

Figure 17 the Install User Manual window

1. Check ☑ Install User Manual to install the *AfiFarm* User Manual. In order to read the user manual, Acrobat Reader® files must be installed in the computer. The installation CD contains Adobe Acrobat Reader® version 4.5. If the reader is not installed in the computer, the **Adobe Acrobat Reader Installation** window opens, as shown on the following page.
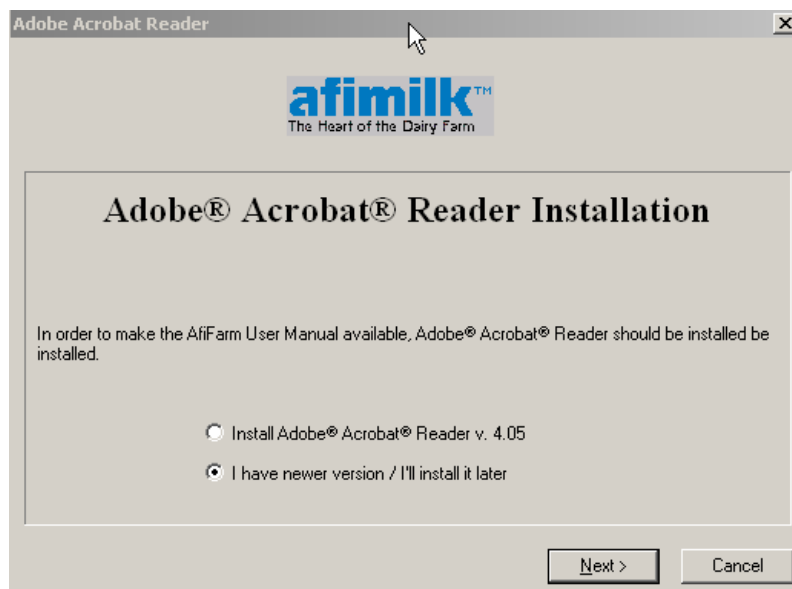

Figure 18 the Adobe Acrobat Reader Installation window

Select the desired option. If you select to install the reader, follow instructions of the reader installation wizard.

2. When upgrading from a previous versions of *AfiFarm* a window, similar to the one shown below, may open:

**Figure 19 the Country Code Mismatch window**

By default the current country code of *AfiFarm* will be kept. If necessary, select Replace.

A similar window may open concerning a sub country code.

3. The following window, and other windows similar to it, may open a few times in various installations:

Figure 20 the Aladdin Device Driver Installation Utility window

If a window similar to this opens, press OK to continue installation.

4. When installing on a main computer where *AfiFarm* has *not* been previously installed, the configuration program starts automatically.



Figure 21 the System Configuration window

a. Press OK

After clicking [OK] the **Password** window opens.

Figure 22 the Password window

b. Type "afi" and press [OK].

c. Proceed according to instructions in the *AfiFarm* Configuration Manual.

5. One of the following occurs,

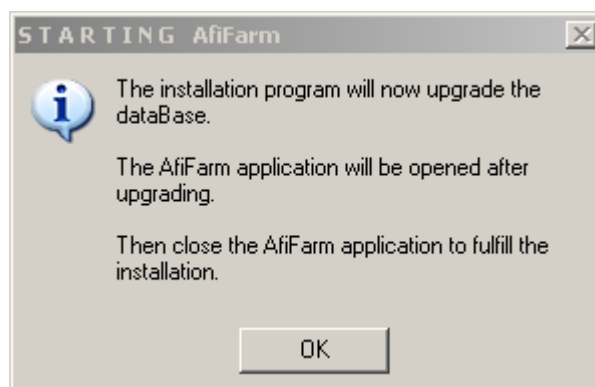- If upgrading *AfiFarm*, the **Starting AfiFarm** window opens.

Figure 23 the Starting AfiFarm window

Click [OK].

a. When *AfiFarm* is launched, close it, in order to complete the installation.

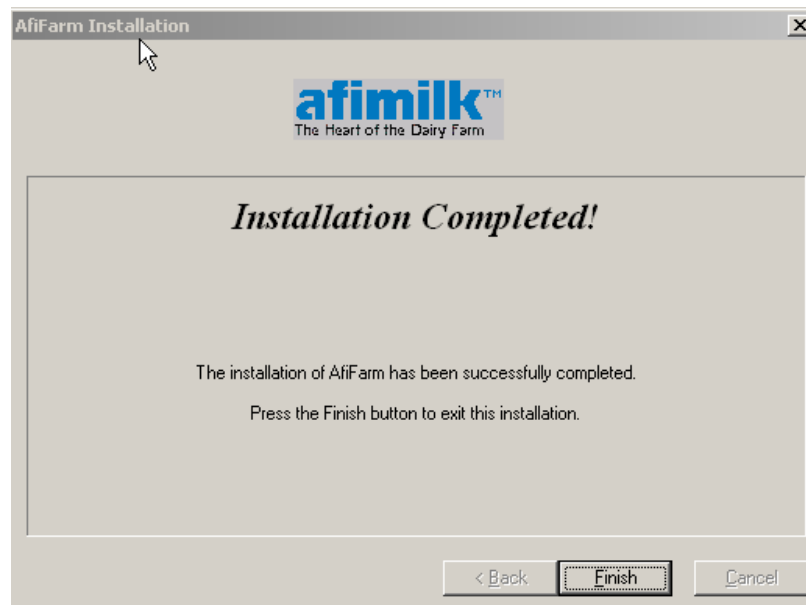After closing *AfiFarm*, the **Installation Completed** window opens.

Figure 24 the Installation Completed window

6. When this window opens, click [Finish].

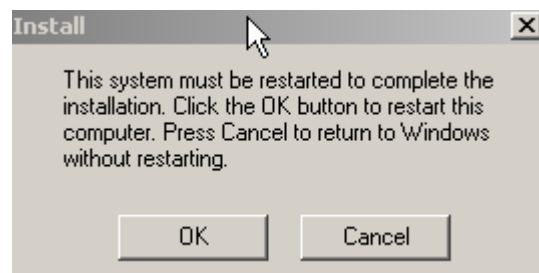   The **Restart Computer** window opens.

Figure 25 the Restart Computer window

7. Click [OK] to restart the computer, load *AfiFarm* drivers, and activate the *AfiMen* real-time activity module.

After installing *AfiFarm*, backup and restore data as described in the following chapter.

Chapter 5   Back-up and Restore

After installing *AfiFarm*, back-up and restore herd data.

Back-up

In *AfiFarm*, backup herd data (Tools ➢ Backup), as detailed in the *AfiFarm* User Manual.

Restore

Stop the *AfiMen* real-time program on the control computer by maximizing the *AfiMen* real-time window (the milk meter icon in the lower-right corner of the screen). Then click ❌ to close The window as well as the *AFiMen* module.

Restore data in the control computer (or computers) from the backup as described in the *AfiFarm* user manual (Tools ➢ Restore).

Chapter 6   Special Situations

The following situations are discussed in this chapter:

- Adding a module.
- Converting to another type of computer configuration.
- Missed or damaged registry.
- Disappeared *AfiFarm* directory.

Adding a Module

AfiFarm is a modular program. This enables the addition of modules of the system at any time.

To add a new module select ○ Add Module in Window 9. Continue installation as a System Upgrade. At the end of the installation on the main computer, the configuration program will start, allowing a reconfiguration of the system.

Changing the Type of Computer Configuration

This procedure enables the conversion from a single computer system to a multi-computer system. As well, functions of computers can be exchanged. For example: a main computer can be changed to a sub-computer, and a sub-computer can be changed to a main computer.

To change the type of computer configuration:

1. Select ○ Convert to Another Type of Configuration in Window 9.

2. Continue with configuration as described in the *AfiFarm* Configuration Manual.

Missing or Damaged Registry

If the operating system of the computer has been reinstalled, or if the registry was damaged, the following window is displayed, at the start of installation:
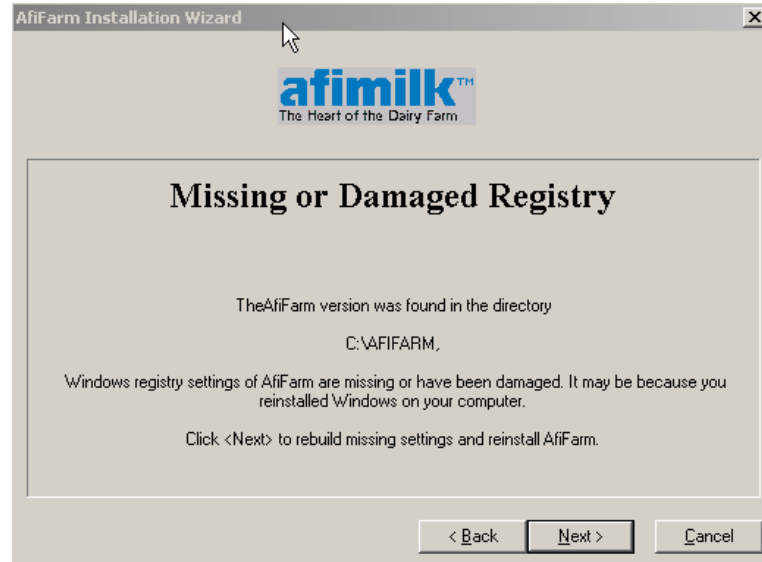

Figure 26 the Missing or Damaged Registry window

Click [Next >] and follow installations instructions for installing *AfiFarm* in a new computer.

Disappearance of *AfiFarm* Directory

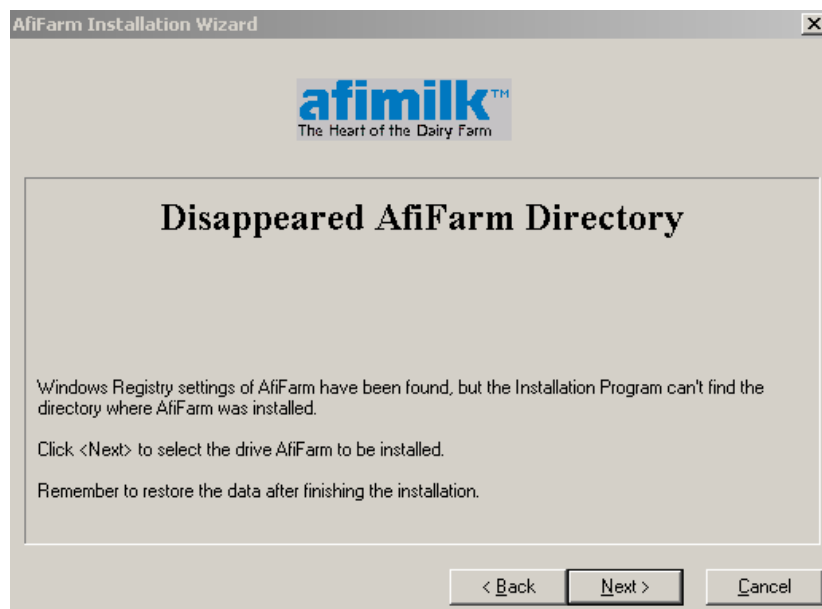If the \Afifarm folder has been deleted, the following window is displayed:

Figure 27 Disappeared *AfiFarm* Directory

Click [Next >] and continue installation.

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Chapter 7   Troubleshooting

Indication	Probable Causes	Possible Solutions
The installation CD does not run automatically after placing the CD into a CD ROM drive.	• Auto run of CDs is disabled. • CD is damaged • CD ROM drive is damaged	1. On the computer desktop double click My Computer. 2. Double click the CDROM icon containing the *AfiFarm* CD, such as CD Drive (E:). 3. If the setup doesn't start double click on the *AfiFarm* SETUP.EXE file. If the problem still exists and you're sure the CDROM is OK, connect your local dealer or SAE Afikim support team for help.

When the computer restarts (in step #10), the installation process does not continue automatically.	Problem with the *Windows*® operating system	1. On the computer desktop double click My Computer.
		2. Do one of the following:
		   • Double click a CDROM icon, such as CD Drive (E:).
		   • Open and close the CDROM drive in the computer.
		
		The installation procedure will continue.

The installation set runs automatically as two equal copies.	*Windows*® problem: a second instance of the installation program is running.	Close the second instance of the installation program.
Media error message appears during installation.	Problem reading the installation CD.	1. Copy the installation CD into a temporary folder on a hard disk, for example: C:\AFIINSTALL. **Do NOT copy the CD to the computer desktop.** 2. In the temporary installation folder, double click SETUP.EXE. If the problem still exists, connect your local dealer or SAE Afikim support team for help

Indication	Probable Causes	Possible Solutions
When starting *AfiFarm*, the following error message appears: **Unauthorized access.** **Program aborted.**	Driver of the *AfiFarm* installation plug was not properly installed.	1. In the installation CD, in the Utilities folder, double click the FARM_REINSTALL_PLUG.EXE file to activate the Driver of the *AfiFarm* installation plug. 2. Restart the Computer.
When *AfiFarm* is installed and operating, an error message appears explaining that the *AFiCom1* driver is not operating, and real-time data is not being received.	The computer does not accept the driver of the *AfiCom1* communication card, for any of the following reasons: • Hardware problem in the computer • Damaged *AfiCom1* card Damaged installation CD	Try the following solutions: • Install the *AfiCom1* card in another PCI slot of the same computer. • Install the *AfiCom1* card in a different computer. • Replace the *AfiCom1* card. • Replace the *AfiCom1* driver, with a driver from another installation CD. You may use a driver from an installation CD of a *previous* versions of *AfiFarm*. If using a driver from the CD of a previous version, you **must** upgrade the *AfiFarm* program to the latest *AfiFarm* version, in order to replace the older driver with the new one. Do ***NOT*** restart the computer when the older driver is installed together with the newer program. If these solutions do not resolve the problem, contact your local dealer, or S.A.E. Afikim customer support.
The computer restarts when installing an *AfiCom1* driver.	The *AfiMen* real-time module is running without an *AfiCom1* driver.	1. When restarting the computer, Press and hold Shift on the keyboard. Press the shift key until the computer has restarted. 2. Install the *AfiCom1* driver as described on page 15. 3.Restart the computer.