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# ITEM QRAS<sup>®</sup>

## TUTORIAL INSTALLATION GUIDE



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Item Software, Inc.

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# Contents

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CONTENTS.....	3
PREFACE .....	5
<i>Purpose of this Guide</i> .....	5
<i>Intended Audience</i> .....	5
<i>Structure</i> .....	5
<b>CHAPTER 1.....</b>	<b>7</b>
INTRODUCING ITEM QRAS INSTALLATION .....	7
<i>What Is ITEM QRAS?</i> .....	8
<i>Hardware and Software Requirements</i> .....	9
<i>Before You Begin</i> .....	10
<i>Installing ITEM QRAS</i> .....	11
<i>Technical Support</i> .....	12
<b>CHAPTER 2.....</b>	<b>13</b>
STANDALONE INSTALLATION.....	13
<i>What Is Standalone Installation?</i> .....	14
<i>Installing the Standalone Version of the Software</i> .....	15
<i>Activating the Software</i> .....	22
<i>Verifying the Software</i> .....	25
To Check Which Modules Are Activated.....	25
<b>CHAPTER 3.....</b>	<b>27</b>
NETWORK SERVER INSTALLATION.....	27
<i>What is Network Server Installation?</i> .....	28
<i>Installing the Network Server Version of the Software</i> .....	29
<i>Activating the Software</i> .....	37
<i>Setting Up the License Manager</i> .....	41
Network File Share Connections: (LAN, WAN Connections) .....	41
TCP/IP Connections: (Internet Connections).....	41
Network File Share Connections Setup .....	42
Network TCP/IP Connections Setup.....	43
<b>CHAPTER 4.....</b>	<b>47</b>
LICENSE SERVER INSTALLATION.....	47
<i>What Is License Server Installation?</i> .....	48
<i>Installing the License Manager</i> .....	49
<i>Activating the Licenses</i> .....	57
<i>Verifying the Licenses</i> .....	60
<i>Setting Up the License Manager</i> .....	61
Network File Share Connections: (LAN, WAN Connections) .....	61
Network File Share Connections Setup .....	62
Network TCP/IP Connections Setup.....	64

---

**CHAPTER 5..... 67**

NETWORK CLIENT INSTALLATION ..... 67

*What Is Network Client Installation?* ..... 68

*Installing the Software* ..... 69

*Activating the Software*..... 78

*Setting Up the Network Client* ..... 79

        Network File Share Connections: (LAN, WAN Connections) .....79

        TCP/IP Connections: (Internet Connections).....79

        Network File Share Connections Setup .....80

        Network TCP/IP Connections Setup.....81

*Verifying the Software* ..... 82

        To Check Which Modules Are Activated.....82

        To Check How Many Licenses Are Available.....83

# Preface

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Item Quantitative Risk Assessment System (iQRAS) is a PC based software tool for conducting Probabilistic Risk Assessment (PRA) for any engineered system.

## Purpose of this Guide

This guide contains information to help you install ITEM QRAS. The guide presents information in a tutorial format, and is intended to explain the basic instruction for installing the software.

## Intended Audience

This guide is for all ITEM QRAS installers and users.

## Structure

This guide contains the following chapters:

Chapter 1	Introduction to ITEM QRAS and general installation information
Chapter 2	Install and activate as Standalone
Chapter 3	Install and activate as a Network Server
Chapter 4	Install and activate as a License Server
Chapter 5	Configure the License Manager
Chapter 6	Install and activate as a Network Client
Chapter 7	Troubleshooting

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# CHAPTER 1

## Introducing ITEM QRAS Installation

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Welcome to ITEM QRAS. This chapter introduces ITEM QRAS and provides basic installation requirement and instructions. It contains the following sections:

- What is ITEM QRAS?
  - Hardware and Software Requirements
  - Before You Begin
  - Installing ITEM QRAS
  - Getting Technical Support
-

## What Is ITEM QRAS?

Item Quantitative Risk Assessment System (iQRAS) is a PC based software tool for conducting Probabilistic Risk Assessment (PRA) for any engineered system. iQRAS bridges the gap between the professional risk analyst and the design engineer. Developed originally by NASA to assist them to focus on the areas of the Space Shuttle program with the most risk, iQRAS has become a world class tool for engineers to truly quantify risk.

How does it work?

iQRAS is a PRA tool designed to incorporate state of the art PRA technology with a user interface that is easily used by managers and design engineers. Those with less experience in the methodology and nuances of PRA will find iQRAS quite useful. The front end of the traditional PRA process involves the identification of accident initiators; this is often done with the use of a Master Logic Diagram. In the case of iQRAS, the front end is a graphical, point and click, treelike picture of the system being modeled, together with its elements, subsystems, and sub-subsystems. It is to this hierarchy that you attach known accident initiators or failure modes.

The iQRAS System Hierarchy feature can be used to construct a hierarchical structure of the system risk model, analogous to a Master Logic Diagram. iQRAS has a Mission Timeline module which contains data on subsystem run times (start and stop times), which are adjusted to changing mission profiles. Timing data is used in other parts of QRAS to calculate failure probabilities.

iQRAS also facilitates the construction of Event Sequence Diagrams (ESDs), which logically describe the scenarios in which initiators can lead, through intermediate or pivotal events, to undesirable end states such as catastrophic failure. The success or failure of pivotal events may represent parts of a failsafe design or even emergency procedures. iQRAS enables you to further develop the initiators and pivotal events in terms of contributing causes (basic events) using fault trees. A Fault Tree Editor, also with an intuitive graphical interface, is provided to build the fault trees which are then logically linked according to the ESD models.

iQRAS accommodates initiators, pivotal events, and their contributing basic events quantified in a variety of ways, including:

- failure probability point estimates with uncertainty bounds
- failure probabilities which are functions of multiple physical variables such as temperature, pressure, etc.
- standard reliability functions selected by the user and supplied by iQRAS
- limit state functions which support failure probability determinations in cases such as classical stress strength interference

iQRAS Fault Tree includes fast, exact solutions (no rare event approximations or other short cuts employed in other PRA computer codes). One of the advanced features of iQRAS is its capability to handle system dependencies. You can model “common cause” failures within an ESD through the construction of Common Cause Groups that include applicable fault tree basic events. iQRAS automatically generates conventional event trees for the risk scenarios, as well as the minimal cut sets of system fault trees and ESD end states.

Nearing the end of the PRA process, iQRAS aggregates ESD end state probabilities to produce intermediate and/or top level end state (e.g., catastrophic failure) probabilities and their uncertainty bounds. Among the results is a prioritization of the “risk drivers” (i.e., the initiators that contribute the most risk to the system).

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## Hardware and Software Requirements

Minimum recommended system configuration for Item QRAS:

- ❑ Microsoft Windows 7, Microsoft Windows XP Professional, Microsoft Windows 2003/2000, Microsoft Windows NT 4.0 (SP6 or later).
- ❑ Microsoft Office 2000/2005 or higher.
- ❑ Intel Pentium 4 or AMD Athlon 64 PC or higher.
- ❑ 1GB RAM
- ❑ 200MB free disk space
- ❑ A 17inch or larger monitor with display properties set to a minimum of 1280 X 768 pixels
- ❑ Mouse or other pointing device
- ❑ CDROM drive

Less capable machines (such as Pentium 133 with Windows 95/98) can run Item QRAS, but the performance may be less than ideal. The use of additional memory, faster processors, bigger monitor or stable operating system such as Microsoft Windows XP/2000 will directly improve performance and capacity. The amount of memory (RAM) used is dependent upon the size of the model. On an average the software uses additional 100 MB for every 1000 gates and events.

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## Before You Begin

Read this section carefully. Instructions may vary according to the type of installation you choose.

- Close all running programs on the computer before installing.
- If you are installing iQRAS on a Network Server, make sure you have administrative privileges for the server and the client workstation.
- Network Server installation must be physically performed at the designated Network Server. It cannot be performed from remote workstation.
- If you are installing iQRAS as a Network Client, make sure iQRAS is installed on the Network Server before you begin the client installation.
- Network Client installation requires Administrative rights to the Network Client workstation.

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## Installing ITEM QRAS

iQRAS is designed to install quickly from the CDROM. The default product directory for iQRAS is C:\Program Files\Item\QRAS. iQRAS is compatible with the uninstall utility included in 32bit Windows operating systems.

iQRAS is copy protected using a Software Key Licensing System. A Software Key is required for activation of the iQRAS modules. The software will run in the Demo Mode as part of the default setting until the License ID and Password have been entered. After completing the installation process, contact our office to obtain the License ID and Password, if they have not been provided already.

Although the specific steps for installing iQRAS vary depending on the type of Software License purchased and the installation you perform, all installations follow the same general steps. These steps include:

1. Installing the software
2. Activating the software
3. Verifying the software activation

When installation is complete, you will see a new icon on your Desktop:



## Technical Support

Our technical support staff is always ready to help you with installing or using Item QRAS.

If you need technical support, contact Item Software using any of the following methods:

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**North American, South American,  
and Central American customers:**

**European, Far East, Middle East, and  
Australian customers:**

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+1 (714) 935 2900	<b>Telephone</b>	+44 (0) 1489 885085
+1 (714) 935 2911	<b>Facsimile</b>	+44 (0) 1489 885065
support@itemsoft.com	<b>Electronic Mail</b>	support@itemsoft.com
<a href="http://www.itemsoft.com">http://www.itemsoft.com</a>	<b>WWW</b>	<a href="http://www.itemsoft.com">http://www.itemsoft.com</a>
Technical Support ITEM Software USA Inc 34 Executive Park Suite 210 Irvine CA 92614 U.S.A.	<b>Mail</b>	Technical Support ITEM Software UK 4 Belfry House 4400 Parkway, Whiteley Fareham, Hampshire PO15 7FJ U.K.

Please have your product name, version number, and system configuration information available so that the Item Software technical support staff can process your support requests as efficiently as possible.

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# CHAPTER 2

## Standalone Installation

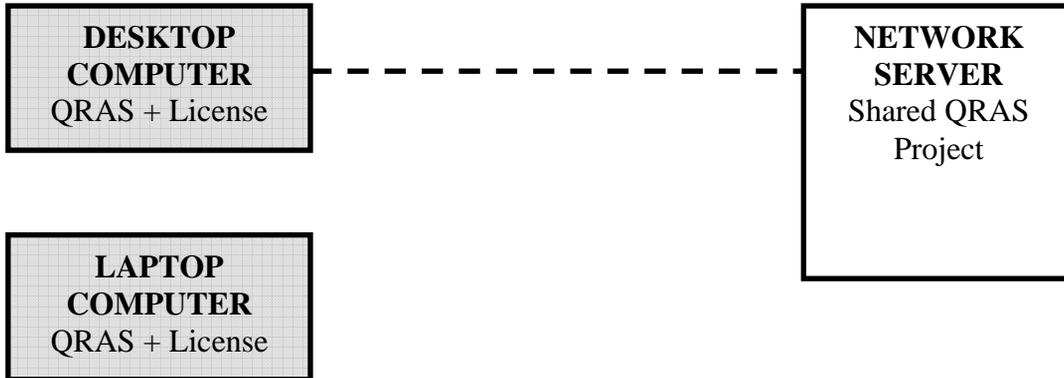
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ITEM QRAS supports several types of installations. This chapter provides you the required instructions for installing the software as Standalone. It contains the following sections:

- What is Standalone Installation?
- Installing the software
- Activating the software
- Verifying the software activation

## What Is Standalone Installation?

Standalone Installation is one of the options that are available for installing ITEM QRAS. This option will allow you to install QRAS's program files to a **local** or **standalone workstation**. It is intended for a **single user license** or when the **software license is not shared through a network**.



The **Software and the license key** are installed by default on the C Drive of the desktop or laptop computer under Program Files\Item\QRAS\Programs

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**NOTE** *The following must be noted when performing a Standalone Installation:*

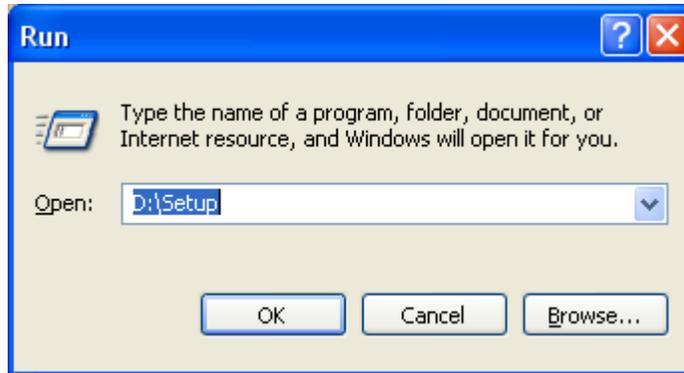
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- STANDALONE INSTALLATION MUST BE PHYSICALLY PERFORMED AT THE DESIGNATED WORKSTATION.
  - STANDALONE INSTALLATION CANNOT BE PERFORMED FROM REMOTE WORKSTATION OR SERVER.
  - STANDALONE INSTALLATION REQUIRES **FULL** ADMINISTRATIVE RIGHTS.
  - STANDALONE USERS MUST HAVE AT LEAST, "POWER USER" ACCESS RIGHTS TO THE WORKSTATION. FULL (ADMINISTRATOR) ACCESS RIGHTS IS RECOMMENDED.
-

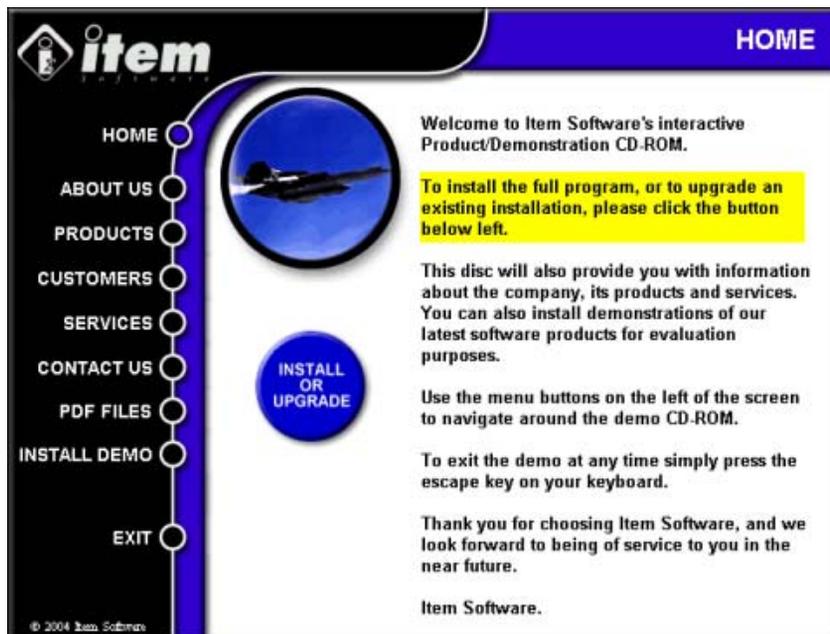
## Installing the Standalone Version of the Software

The Install Wizard will guide you through simple steps for installing ITEM QRAS. Please complete the following steps:

- Insert the QRAS CD into your CD-ROM drive.
- If the Auto Run feature is not activated, choose **Run** from the **Start** Menu. The Run dialog box appears.



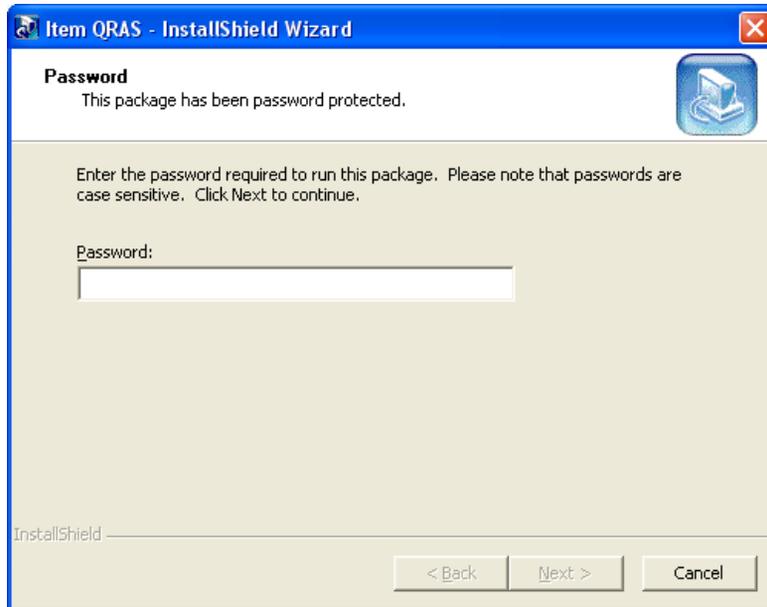
- In the Run dialog box, type **D:\setup** (replace the letter D with the correct letter for your CD-ROM drive).
- Click **OK** to activate the installation program.
- If the Auto Run feature is activated, the following screen appears.



- Select Install or Upgrade.



- Select ITEM QRAS. The installation wizard begins.



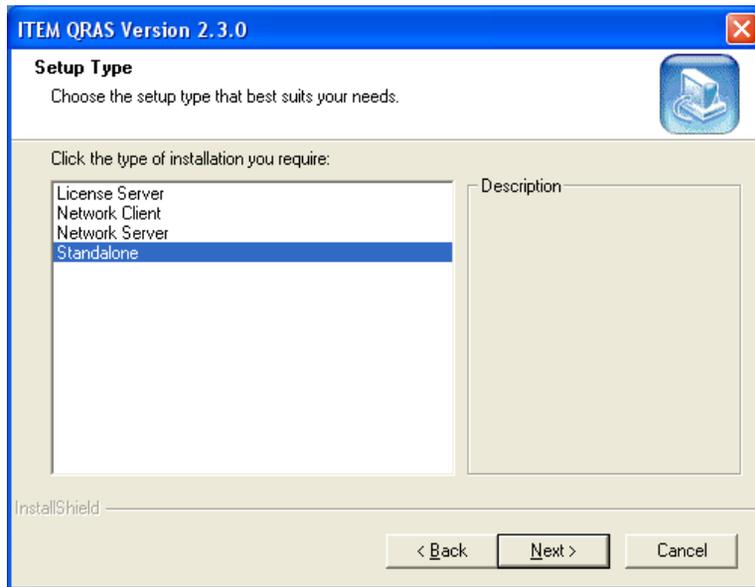
- Enter the password you have been provided with to begin installation.

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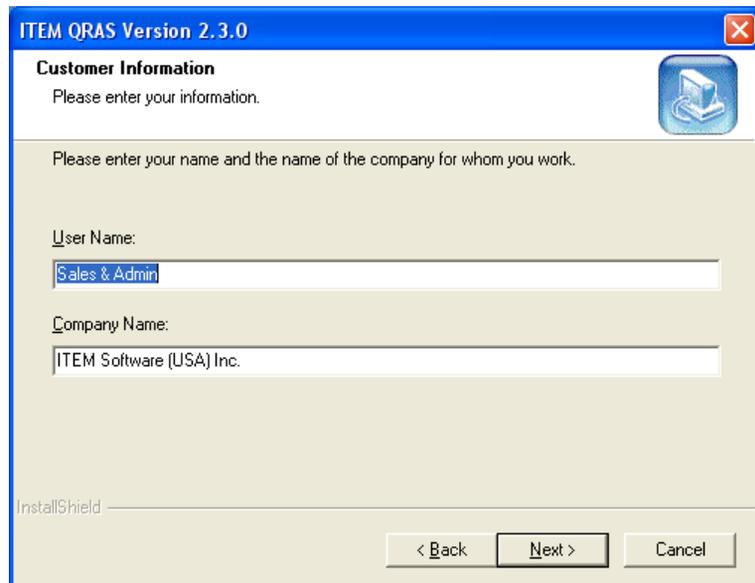
**NOTE** *If the following window appears, click **Yes** to allow the process to uninstall the existing installation, and then restart the installation process.*

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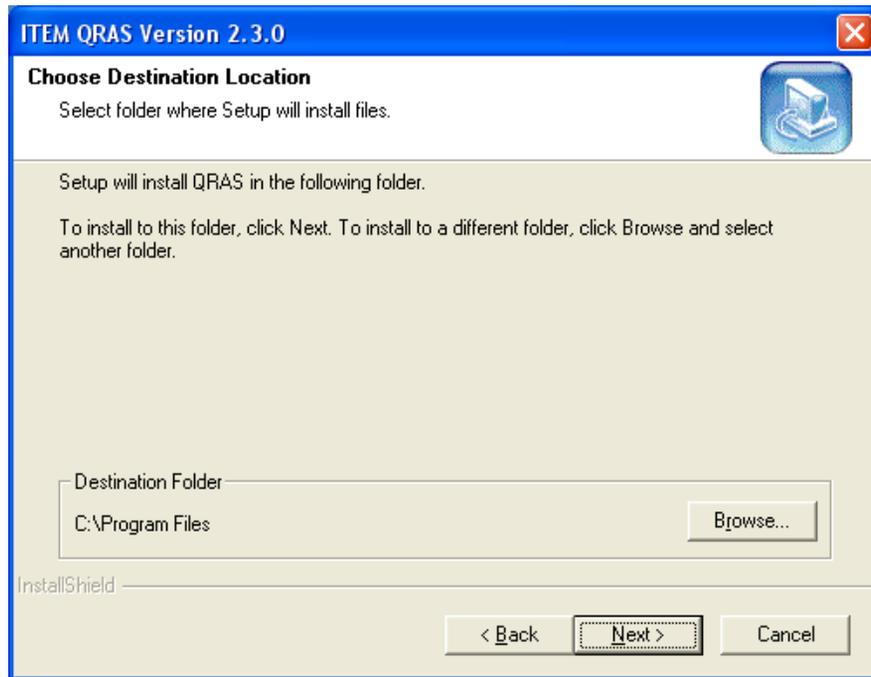




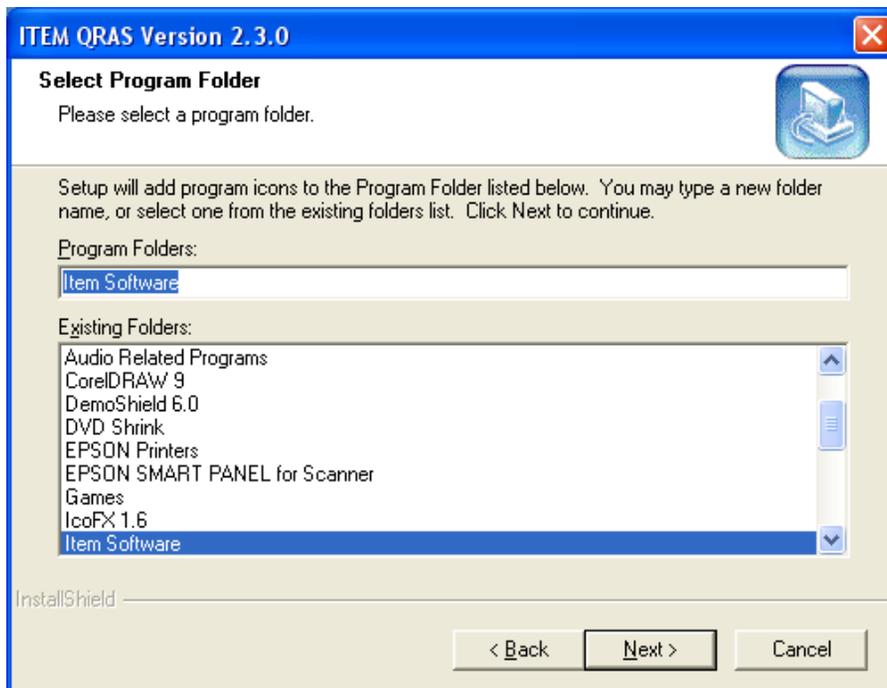
- Choose **Standalone** and click **Next**.
- The License Agreement dialog box appears. Read the license agreement carefully and click **Yes** to accept or **No** to decline. If you click No, the setup program closes.
- The Customer Information dialog box appears. Type the user name and the company name in the appropriate boxes, and then click **Next**.



- The Choose Destination Location dialog box appears. To choose a destination folder that the program files should be installed into, click **Next** to accept the default destination folder or click **Browse**, select an alternate folder, then click **Next**.

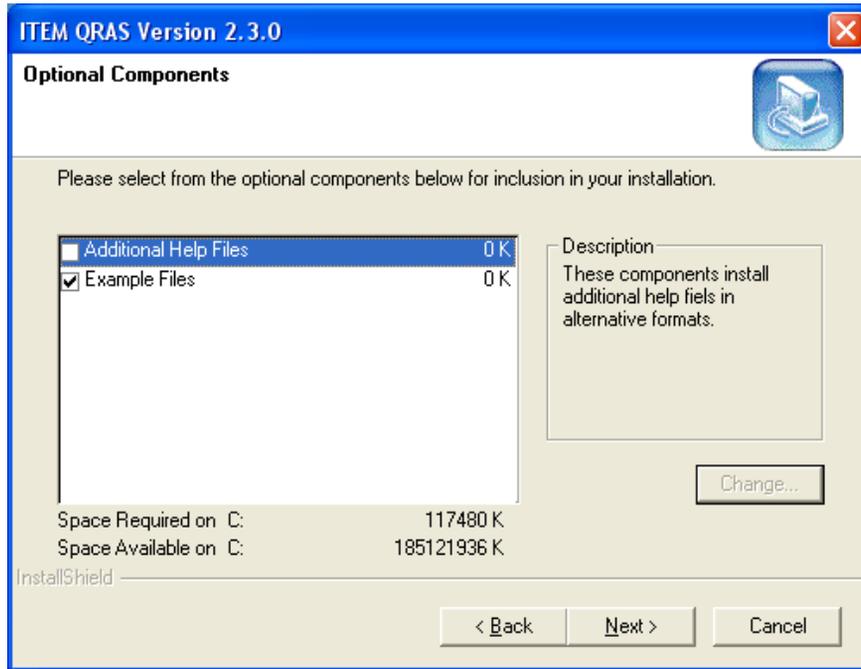


- The Select Program Folder dialog box appears. To accept the Item Software folder, click **Next**. To create a new folder, type the name of the new folder in the Program Folder box, and then click **Next**. To select an existing folder, locate the desired folder in the Existing Folders list, select it, and then click **Next**.

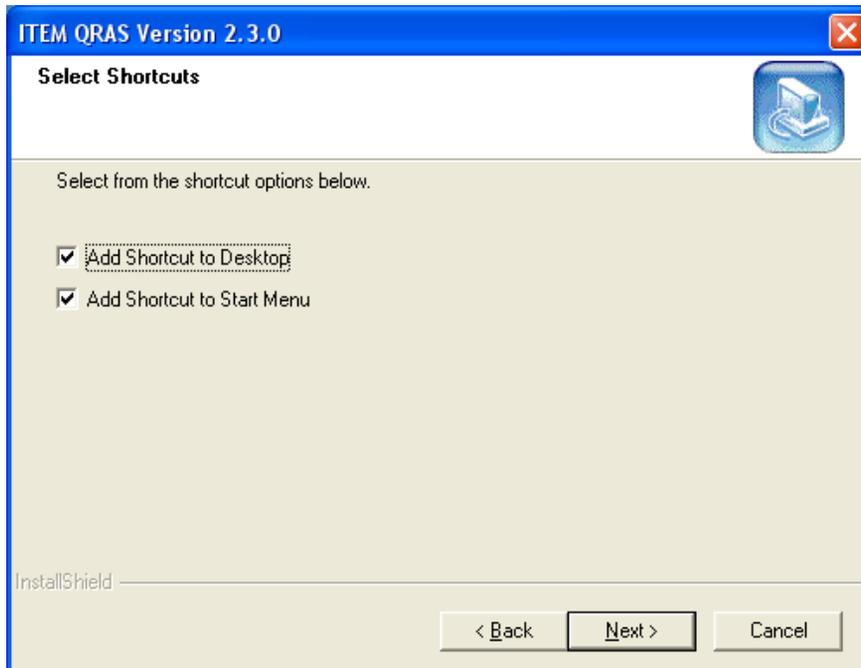


## 20 Standalone Installation

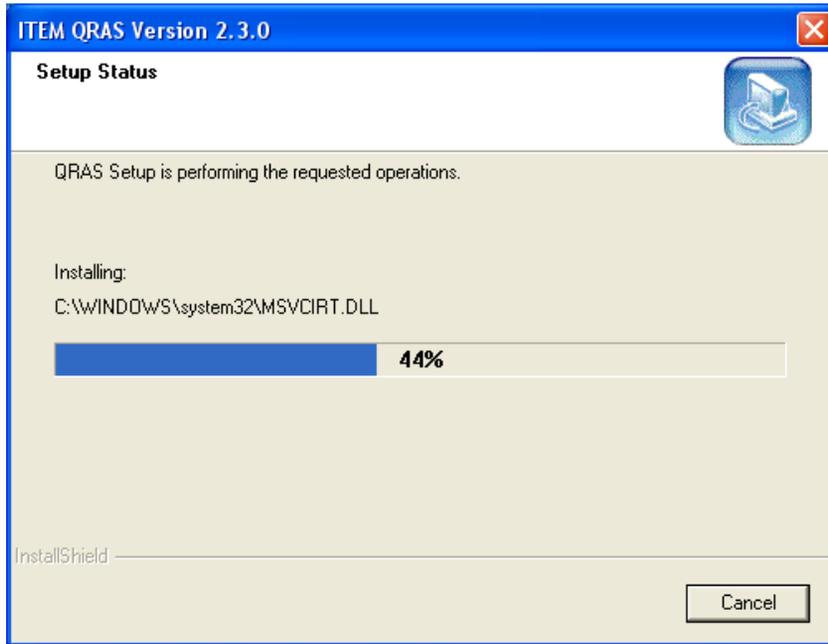
- Select the optional Components to be installed, and then click **Next**.



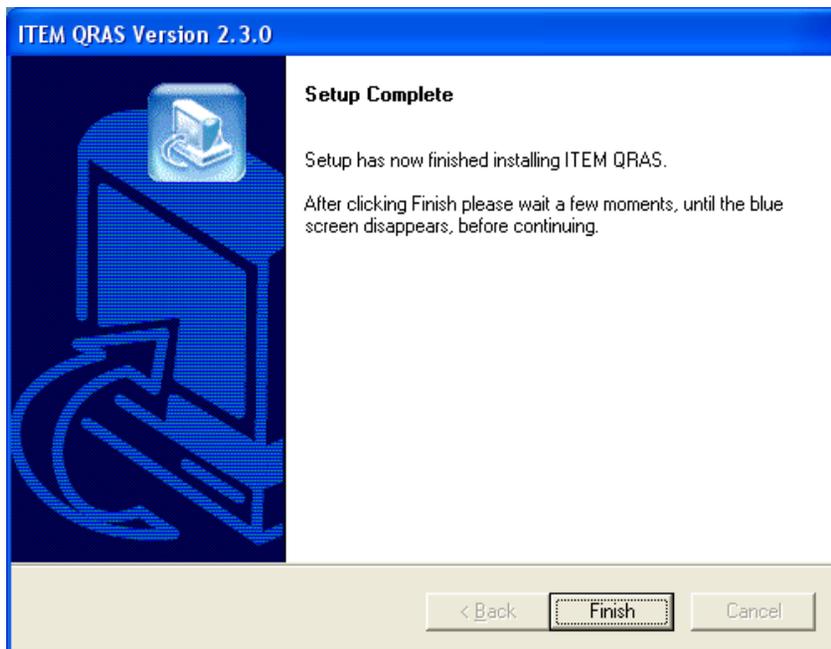
- Select the shortcut options, and then click **Next**.



- The Setup Status dialog box appears and displays the progress of the installation.



- When the InstallShield Wizard Complete dialog box appears, click **Finish**.

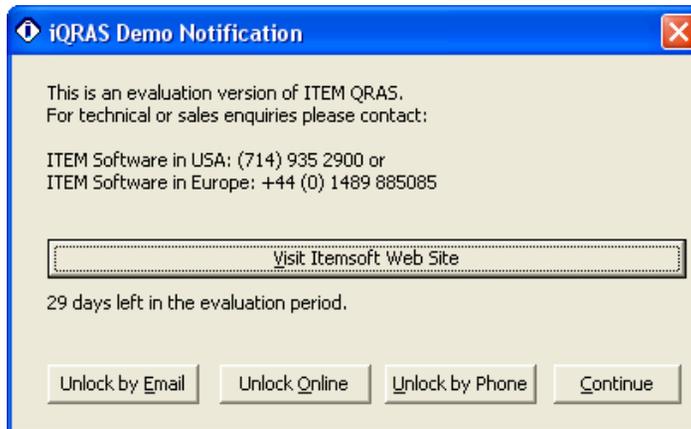


## Activating the Software

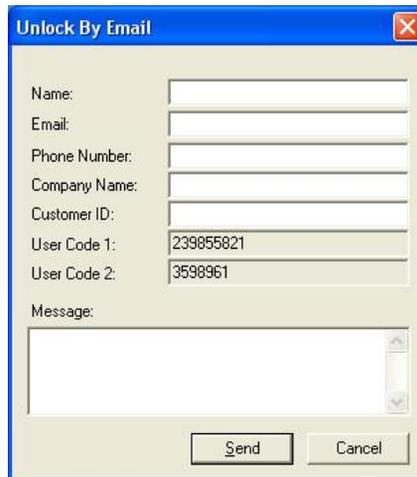
Once the software is installed, it must be activated. If the software is not activated, only the demonstration mode features will be available.

To activate ITEM QRAS:

- From the **Start** Menu, select **Programs -> Item Software -> ITEM QRAS** or click on the **ITEM QRAS icon** in your desktop.
- The Demo Notification dialog box appears. Select one of the unlock options.



- Selecting **Unlock by Email** opens the following dialog:

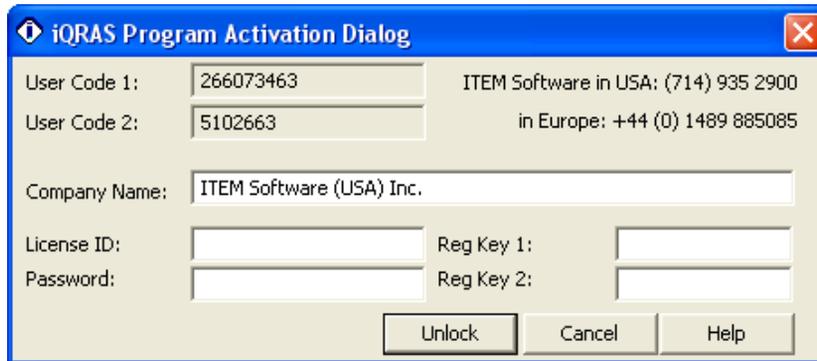
The image shows a dialog box titled "Unlock By Email". It contains several input fields: "Name:", "Email:", "Phone Number:", "Company Name:", "Customer ID:", "User Code 1:" (with the value "239855821"), and "User Code 2:" (with the value "3598961"). There is also a "Message:" field with a scrollable text area. At the bottom are "Send" and "Cancel" buttons.

- Enter the required information and click **Send**. An email will be sent to Item Software with your activation request. Once you have received a reply containing your activation codes enter them in the Program Activation Dialog (see **Unlock by Phone**).
- Selecting **Unlock Online** opens the following dialog:



The 'Online Activation' dialog box has a blue title bar with a close button (X) on the right. It contains two text input fields: 'License ID:' and 'Password:'. Below these fields are two buttons: 'Cancel' and 'OK'.

- Enter the required information and click OK
- Selecting Unlock by Phone opens the following dialog:



The 'iQRAS Program Activation Dialog' has a blue title bar with an information icon (i) on the left and a close button (X) on the right. It contains several text input fields and labels: 'User Code 1:' with value '266073463', 'User Code 2:' with value '5102663', 'Company Name:' with value 'ITEM Software (USA) Inc.', 'License ID:', 'Password:', 'Reg Key 1:', and 'Reg Key 2:'. To the right of the User Code fields, there is contact information: 'ITEM Software in USA: (714) 935 2900' and 'in Europe: +44 (0) 1489 885085'. At the bottom are three buttons: 'Unlock', 'Cancel', and 'Help'.

- Your system will generate User Code 1 and User Code 2 numbers.
- The User Codes are required for activation of your program. These numbers must be presented to an Item Software representative by telephone or email. Item Software will then supply the License ID, Password and Registration Keys.
- Enter these details in the boxes, and then click Unlock.
- The Activation Complete box appears.



The 'Success!' dialog box has a blue title bar with a close button (X) on the right. It contains the text 'Activation Complete!' and a single 'OK' button at the bottom.

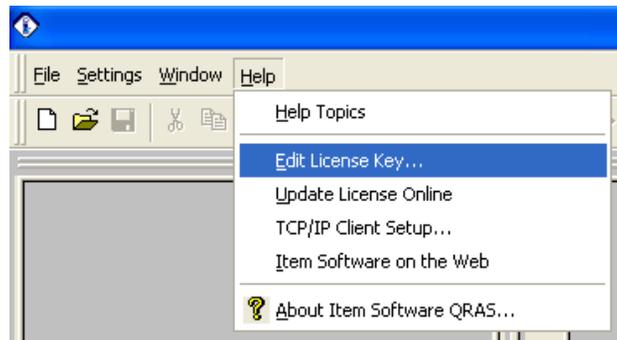
- To verify that the correct modules are activated, select 'About Item Software QRAS' from the Help Menu.



For Trial Licenses the above dialog will indicate this along with the number of days left in the trial period.

**NOTE** *If you click Continue from the Demo Notification Dialog Box, the software opens in demonstration mode. You can register the software at any time by selecting Edit License Key from the Help Menu.*

- Select **Help** from the Standard Toolbar.
- Select **Edit License Key** from the **Help** Menu.

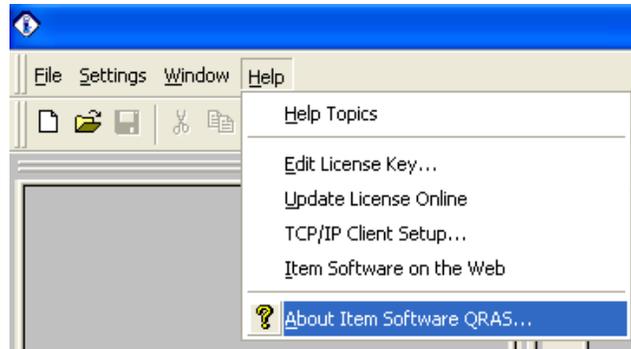


- The Program Activation Dialog box will appear.
- Follow the previous activation procedure.

## Verifying the Software

### To Check Which Modules Are Activated

- Select Help From the **Standard Toolbar**.
- Select **About Item Software QRAS**.



- The About ITEM QRAS Dialog Box appears and you can check the Version of the software and which modules are in full version or Demo Version.



- Click "OK" when finished.



# CHAPTER 3

## Network Server Installation

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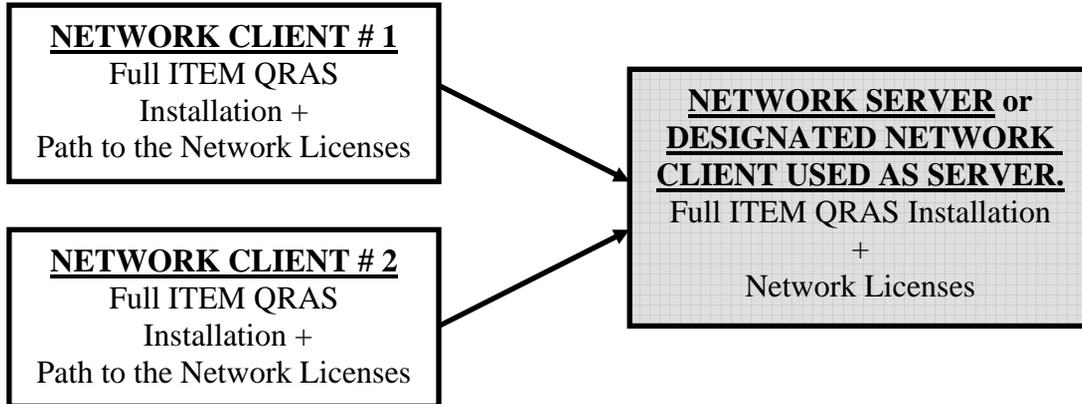
ITEM QRAS supports four types of installation: Standalone, Network Server, License Server, and Network. This chapter will provide you the required instruction for installing the software as Network Server. It contains the following sections:

- What is Network Server Installation?
- Installing the software
- Activating and verifying the software
- Setting up the license manager

## What is Network Server Installation?

Network Server Installation is designed to provide access to the License Key through a network. After installing the software on the Network Server or on a designated Network Client used as a server, the Network Client installation must be performed on the client workstation. The software can be launched on the client workstation or on the server.

This option is intended for a single user or multiple users that are required to have the software installed on a shared server. The number of users accessing the software will be limited to the number of licenses purchased.



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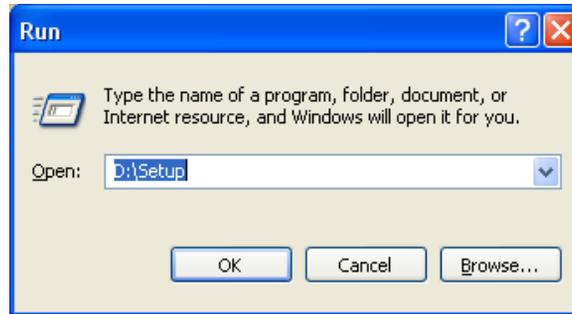
**NOTE** *The following must be noted when installing the software on a network server:*

- THE INSTALLATION MUST BE PHYSICALLY PERFORMED AT THE DESIGNATED NETWORK SERVER AND CANNOT BE DONE FROM A REMOTE WORKSTATION.
  - QRAS MUST BE INSTALLED ON THE SERVER BEFORE IT CAN BE INSTALLED ON A NETWORK CLIENT.
  - SERVER INSTALLATION REQUIRES **FULL** ADMINISTRATIVE RIGHTS.
  - THE PROGRAM INSTALLATION FOLDER (FOR EXAMPLE: C:\Program Files \Item\ QRAS\ Programs) INSTALLED ON THE NETWORK SERVER MUST BE SHARED BETWEEN THE NETWORK SERVER AND CLIENT WORKSTATION.
  - NETWORK CLIENT MUST HAVE FULL ACCESS RIGHTS TO THE PROGRAMS FOLDER (FOR EXAMPLE: C:\Program Files \Item\ QRAS\ Programs) INSTALLED ON THE NETWORK SERVER.
-

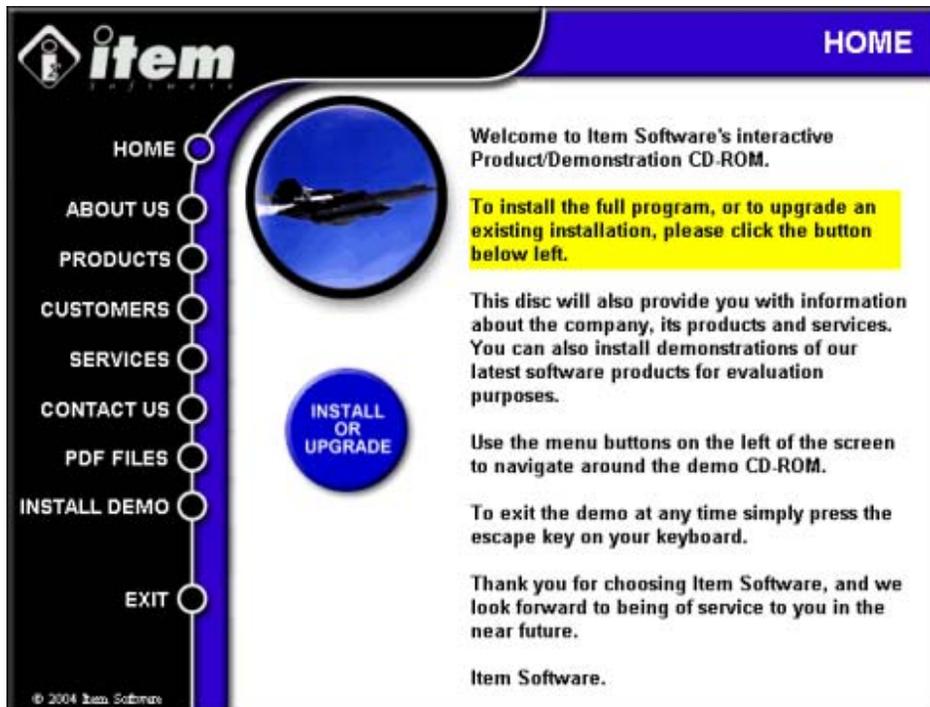
## Installing the Network Server Version of the Software

The Install Wizard will guide you through simple steps for installing ITEM QRAS. Please complete the following steps:

- Insert the ITEM QRAS CD into your CD-ROM drive.
- If the Auto Run feature is not activated, choose **Run** from the **Start** Menu. The Run dialog box appears.



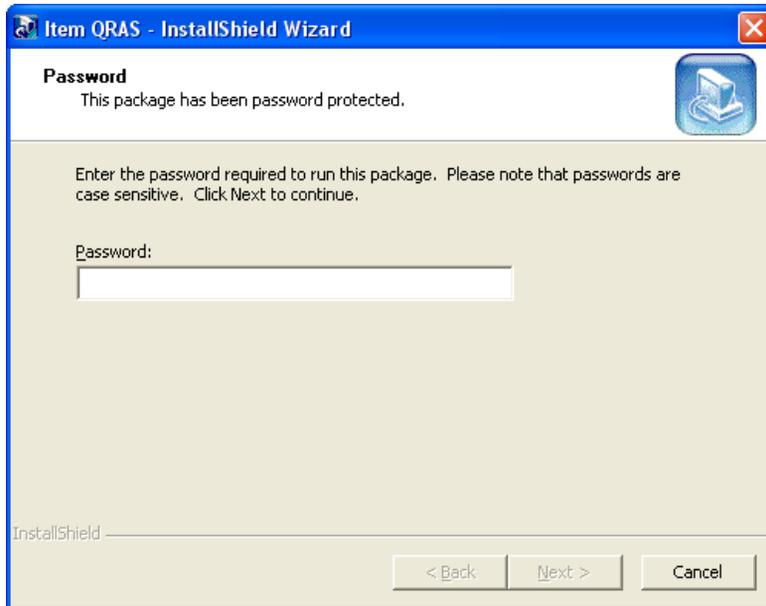
- In the Run dialog box, type **D:\setup** (replace the letter D with the correct letter for your CD-ROM drive).
- Click **OK** to activate the installation program.
- If the Auto Run feature is activated, the following screen appears.



- Select Install or Upgrade.



- Select ITEM QRAS. The installation wizard begins.



- Enter the password you have been provided with to begin installation.

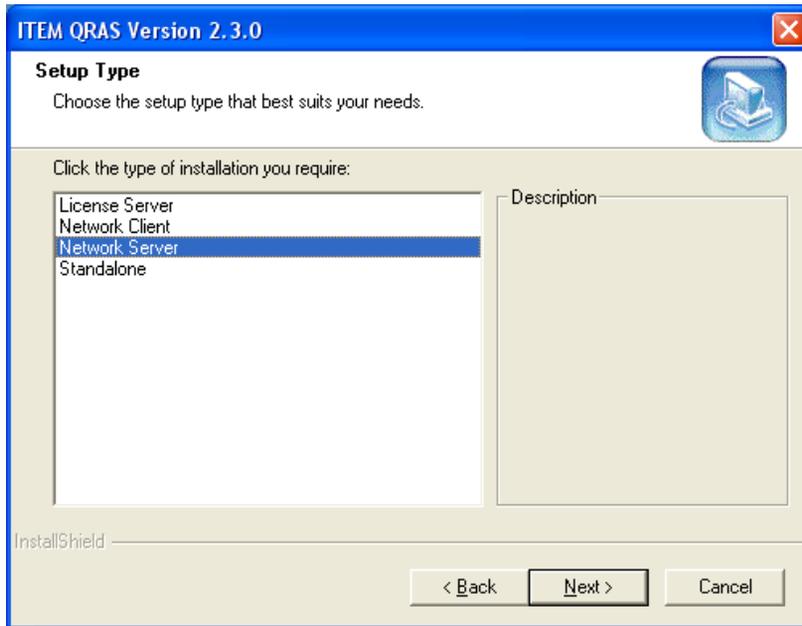
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**NOTE** *If the following window appears, click **Yes** to allow the process to uninstall the existing installation, and then restart the installation process.*

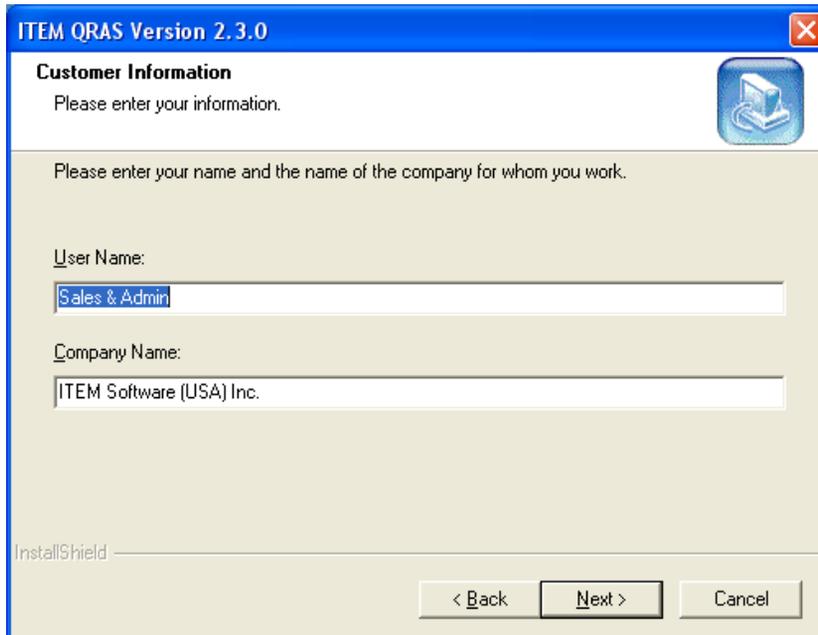
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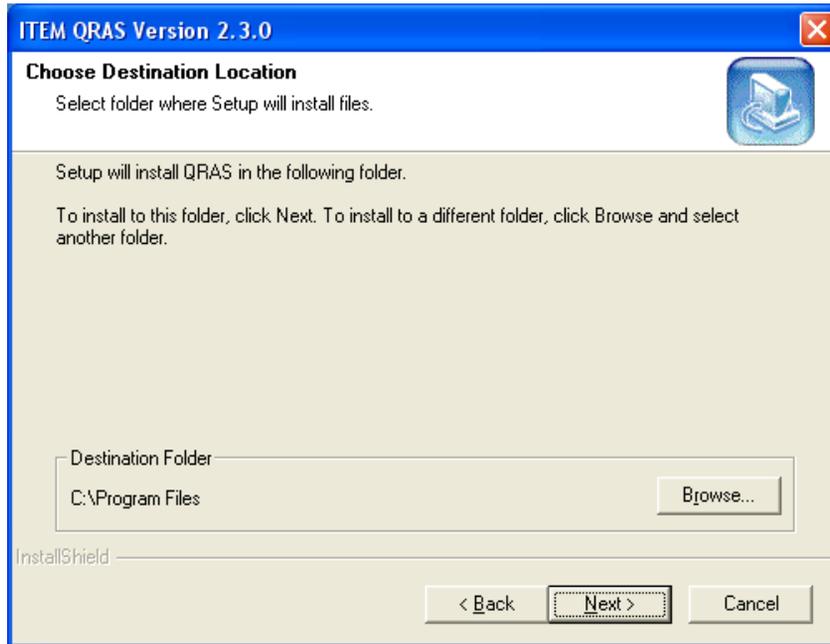
- Click **Next** and the following Setup Type dialog box appears.



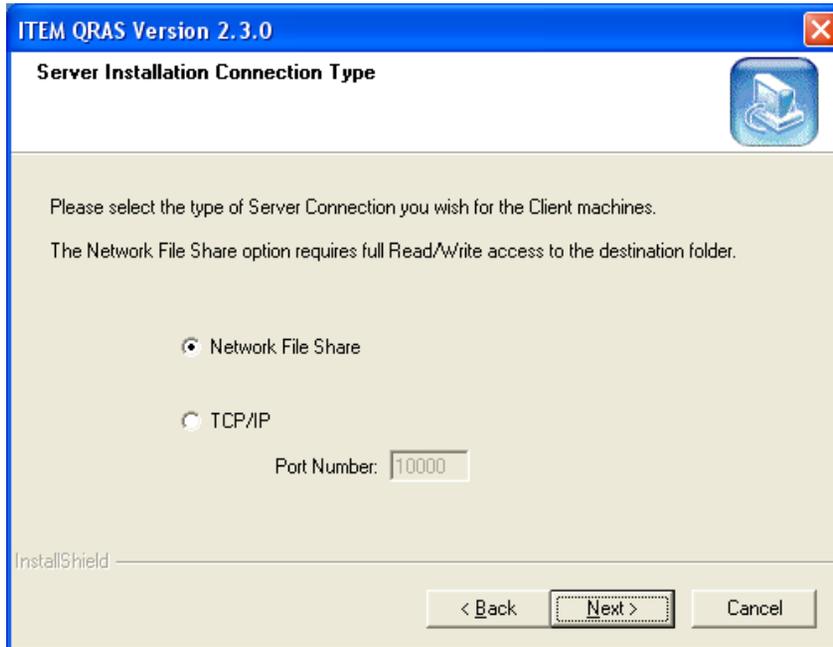
- Choose **Network Server** and click **Next**.
- The License Agreement dialog box appears. Read the license agreement carefully and click **Yes** to accept or **No** to decline. If you click No, the setup program closes.
- The Customer Information dialog box appears. Type the user name and the company name in the appropriate boxes, and then click **Next**.



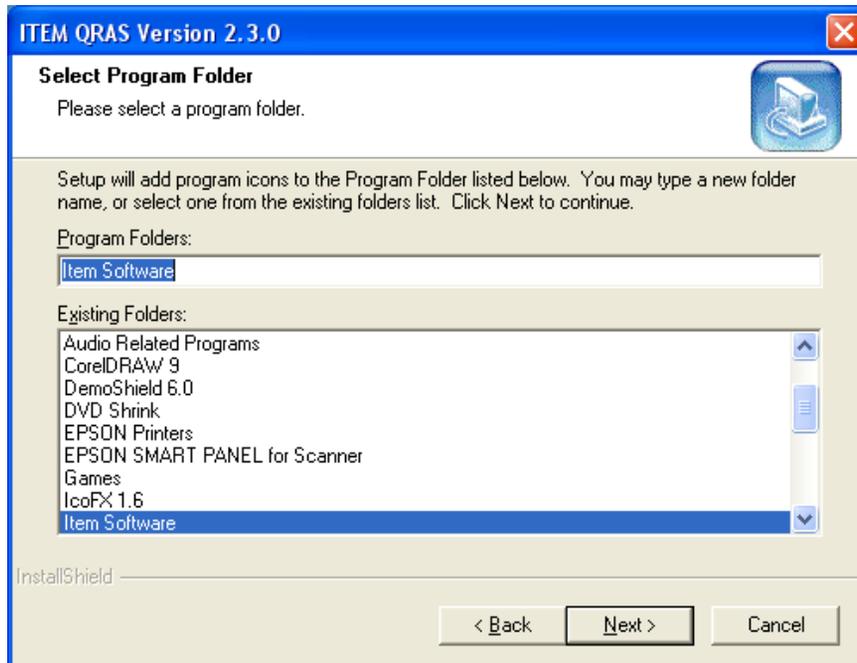
- The Choose Destination Location dialog box appears. To choose a destination folder that the program files should be installed into, click **Next** to accept the default destination folder or click **Browse**, select an alternate folder, then click **Next**.



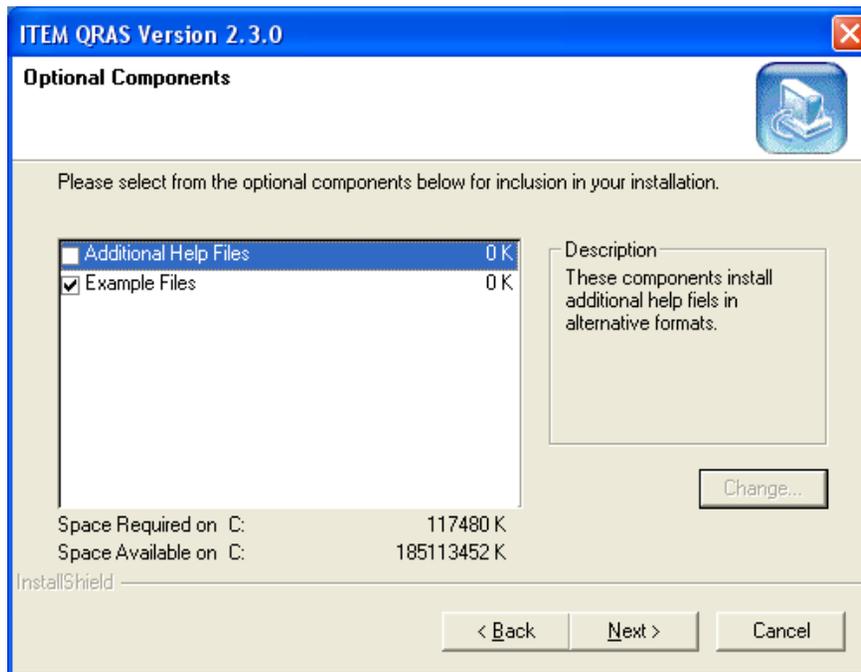
- The Server Installation Connection Type dialog appears. Select the type of connection you wish for the client machine. The choice is either Network File Share or TCP/IP. With the former option full read/write access to the destination folder is required. With the latter option, you must also enter a port number. If you are unsure which option to select, please consult your Network Administrator. Once your choice has been made click **Next**.



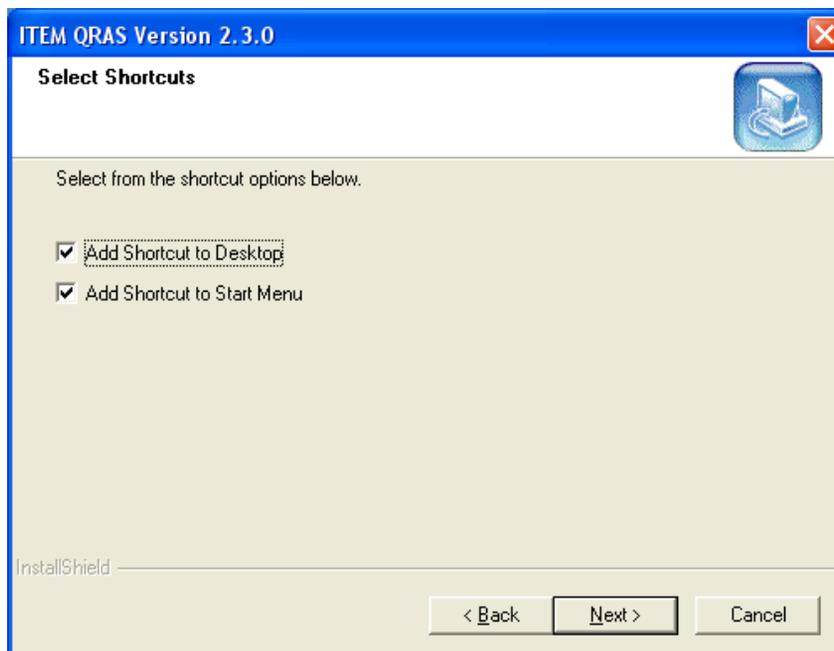
- The Select Program Folder dialog box appears. To accept the Item Software folder, click **Next**. To create a new folder, type the name of the new folder in the Program Folder box, and then click **Next**. To select an existing folder, locate the desired folder in the Existing Folders list, select it, and click **Next**.



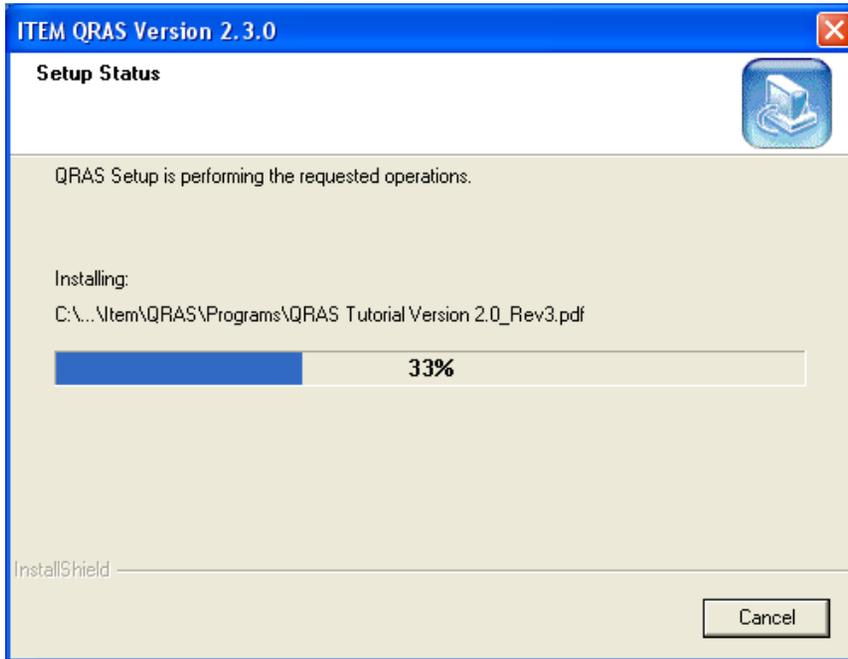
- Select the optional Components to be installed, and then click **Next**.



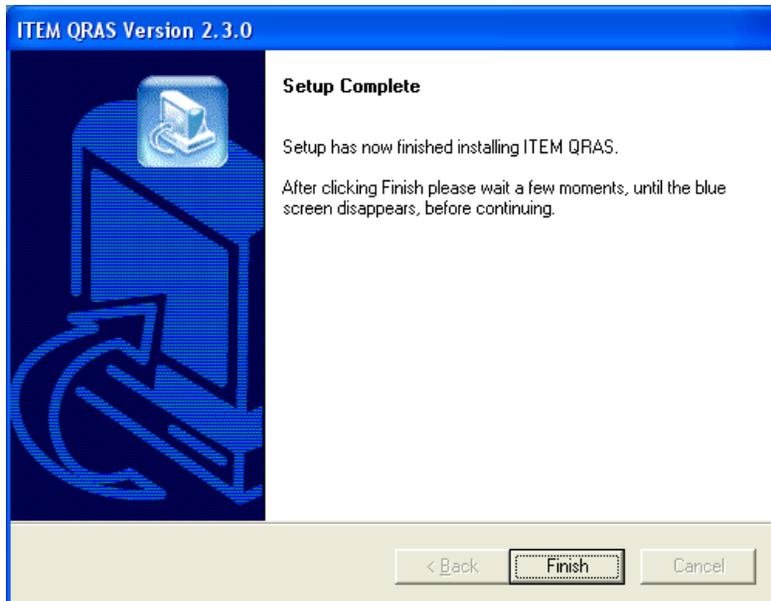
- The option to add icons to the desktop is the next window to appear.



- The Setup Status dialog box appears and displays the progress of the installation.



- When the InstallShield Wizard Complete dialog box appears, click **Finish**.

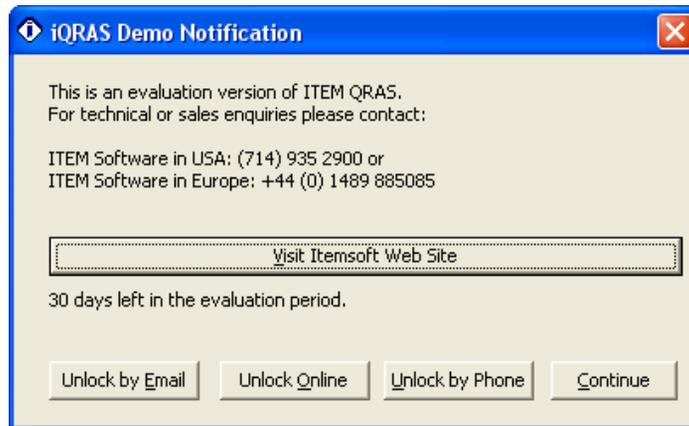


## Activating the Software

Once the software is installed, it must be activated. If the software is not activated, only the demonstration mode features will be available.

To activate QRAS:

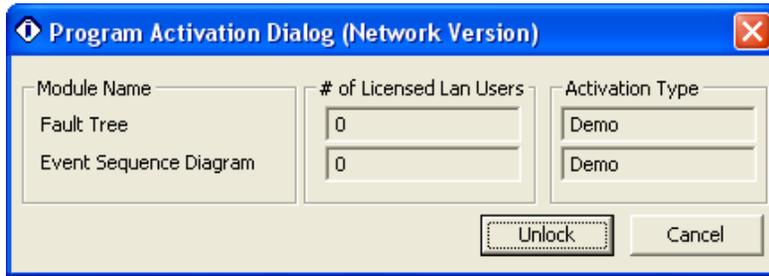
- From the **Start Menu**, select **Programs->Item Software->ITEM QRAS** or click on the **ITEM QRAS icon** on your desktop.
- The Demo Notification dialog box appears. Select one of the unlock options.



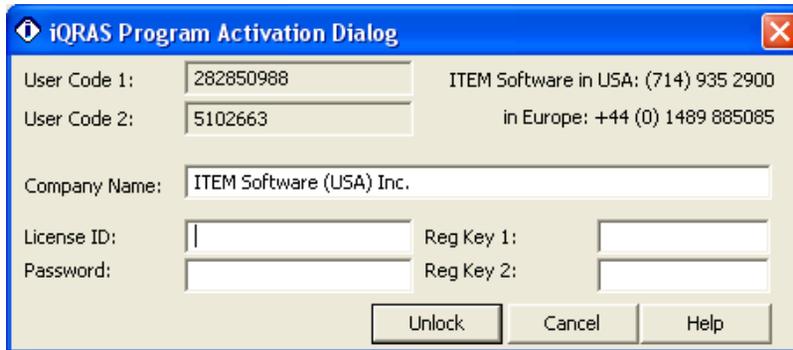
- Selecting **Unlock Online** opens the following dialog:



- Enter the required information and click **OK**
- Selecting **Unlock by Phone** opens the Program Activation Dialog:



- Selecting Unlock opens the following dialog:



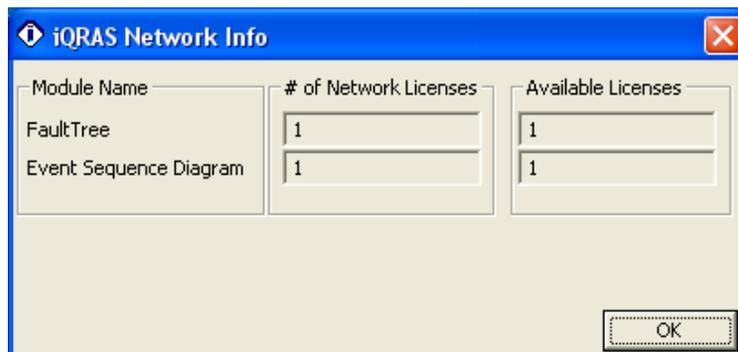
- Your system will generate User Code 1 and User Code 2 numbers.
- The User Codes are required for activation of your program. These numbers must be presented to an Item Software representative by telephone or email.
- Item Software will then supply the License ID, Password and Registration Keys.
  - Enter these details in the boxes, and then click Unlock.
  - The Activation Complete box appears.



- To verify that the correct modules are activated, select 'About Item Software QRAS' from the Help Menu.

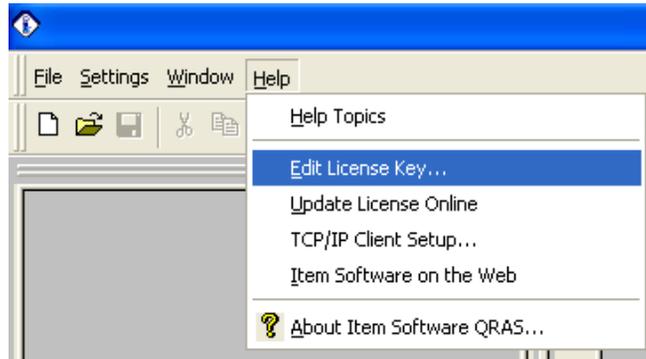


- Clicking the Network Info... button will display the following dialog showing the number of network licenses, available licenses and maintenance expiration date.



**NOTE** If you click Continue from the Demo Notification Dialog Box, the software opens in demonstration mode. You can register the software at any time by selecting Edit License Key from the Help Menu.

- Select Help from the Standard Toolbar
- Select Edit License Key from the Help Menu



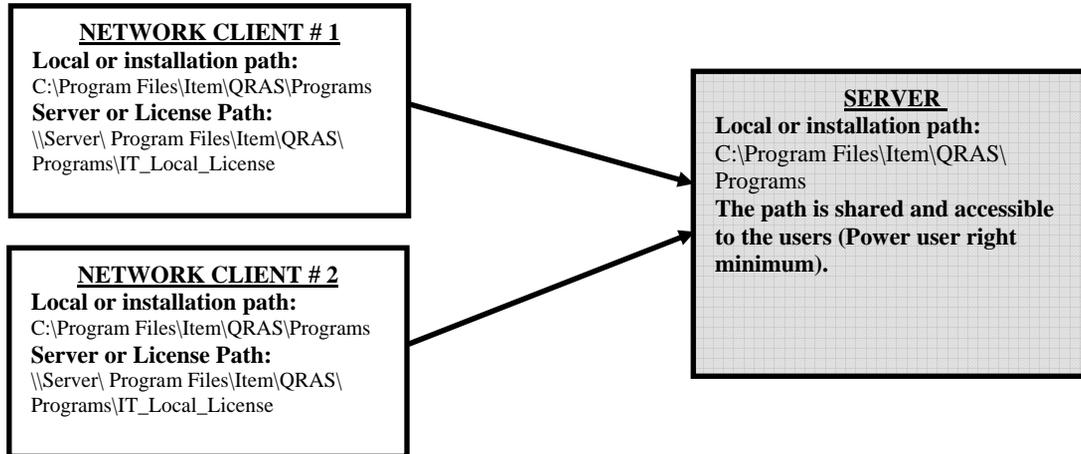
- The Program Activation Dialog box will appear
- Follow the previous activation procedure.

## Setting Up the License Manager

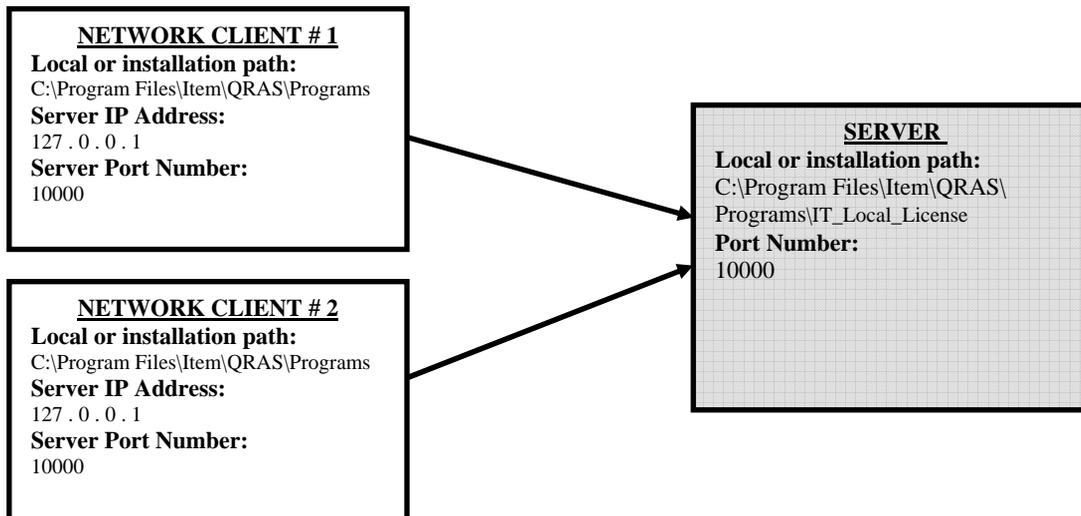
Once the software is activated, the license manager needs to be set with the correct types of network connections.

ITEM QRAS has two types of network connections available.

### Network File Share Connections: (LAN, WAN Connections)



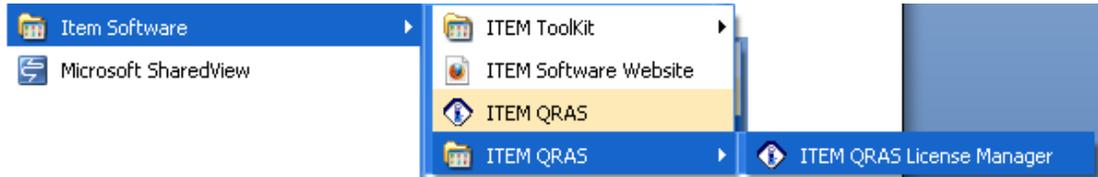
### TCP/IP Connections: (Internet Connections)



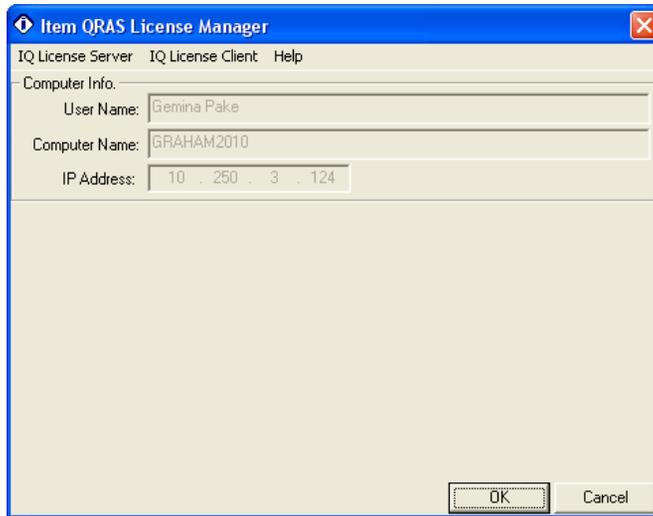
Server path, IP Address and Server Port Number should be obtained from your Network Administrator.

## Network File Share Connections Setup

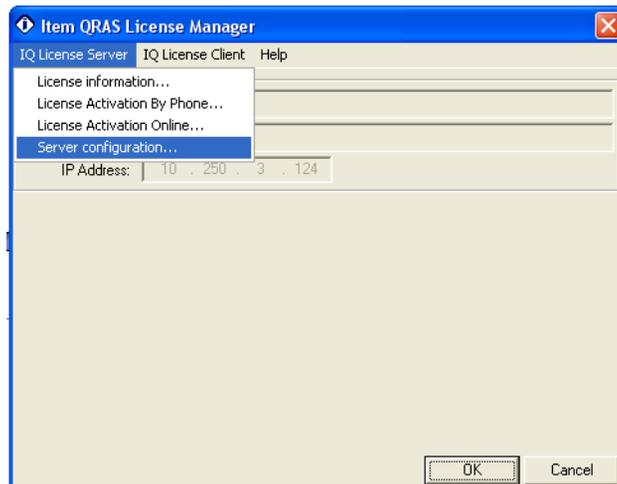
- From the **Start Menu**, select **Programs -> Item Software -> ITEM QRAS -> ITEM QRAS License Manager**.



- The License Manager Dialog box appears.

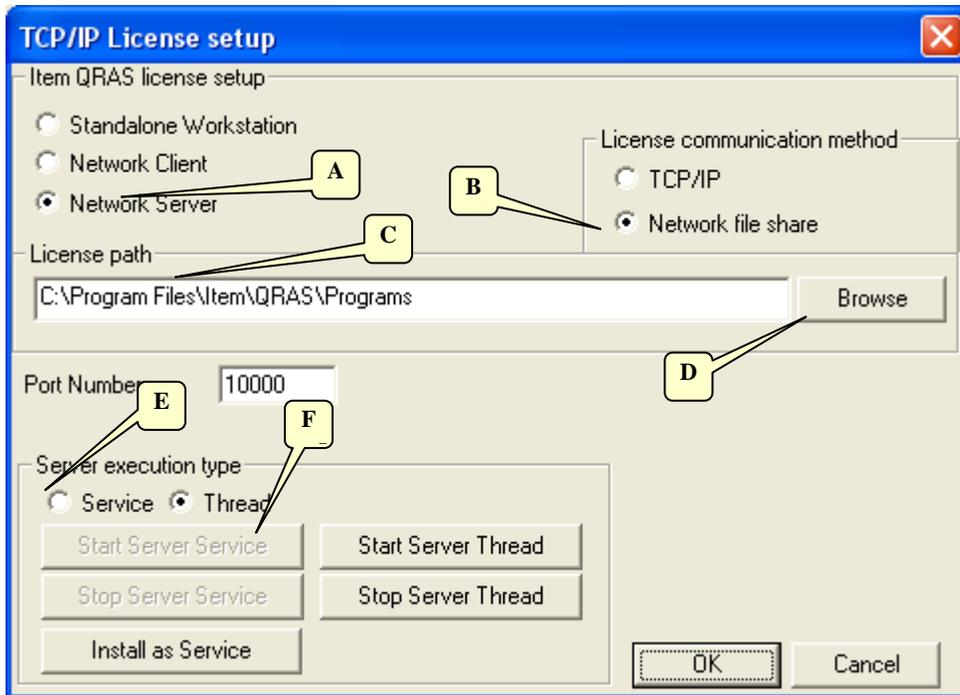


- Click on **IT License Server** from the top menu and select **Server configuration**.



- The license setup window opens.
  - Verify that Network Server is selected (A).
  - Select Network file share (B).
  - Verify the License path (C). If the path is incorrect, click on Browse (D) and select the folder where the license keys are located.
  - Select Service (E) for execution type and click on "Start Server Service" (F).

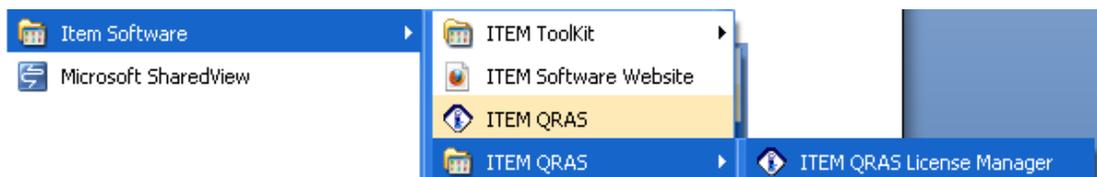
**NOTE** *Selecting Thread for the Server execution type is for troubleshooting purposes only and will stop the service when exiting the license manager.*



- Click "OK" when finished.

## Network TCP/IP Connections Setup

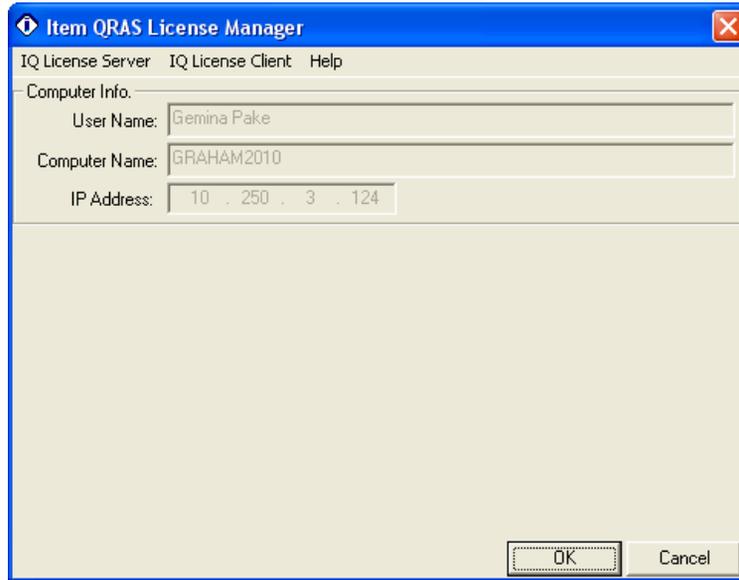
- From the **Start Menu**, select **Programs -> Item Software -> ITEM QRAS -> ITEM QRAS License Manager**.



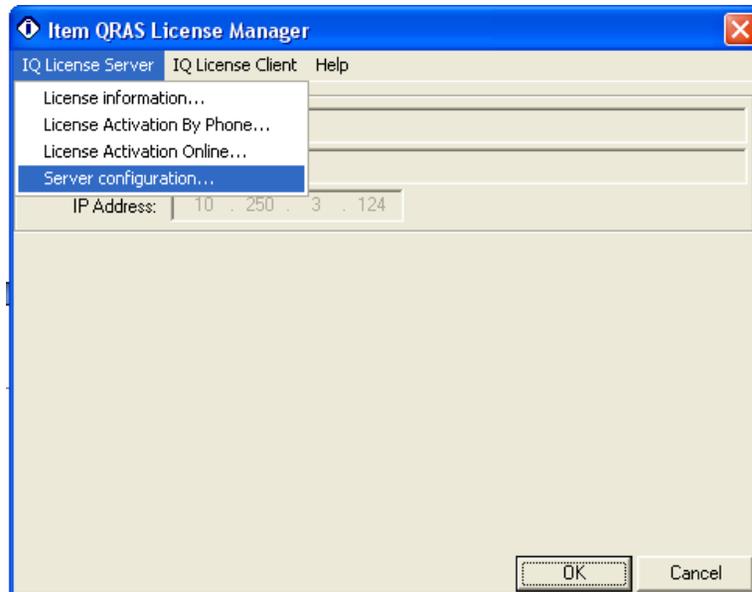
## 44 Network Server Installation

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- The License Manager Dialog box appears.

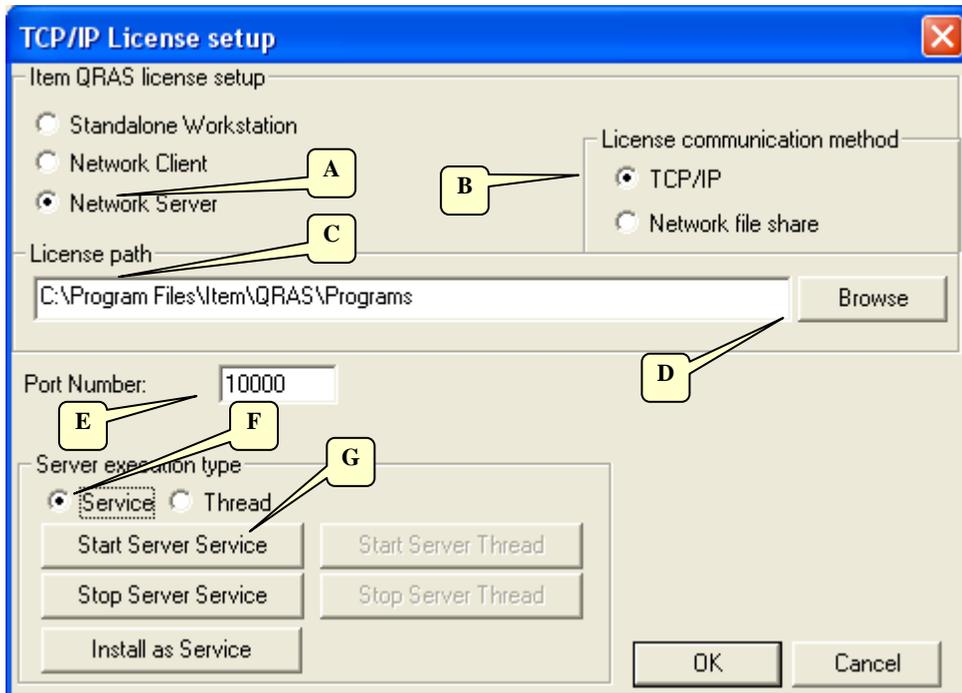


- Click on IT License Server from the top menu and select Server configuration.



- The license setup window opens.
  - Verify that Network Server is selected (A).
  - Select TCP/IP (B).
  - Verify the License path (C). If the path is incorrect, click on Browse (D) and select the folder where the license keys are located.
  - Enter the Port Number (E).
  - Select Service (F) for execution type and click on "Start Server Service" (G).

**NOTE** *Selecting Thread for the Server execution type is for troubleshooting purposes only and will stop the service when exiting the license manager.*



- Click "OK" when finished.



# CHAPTER 4

## License Server Installation

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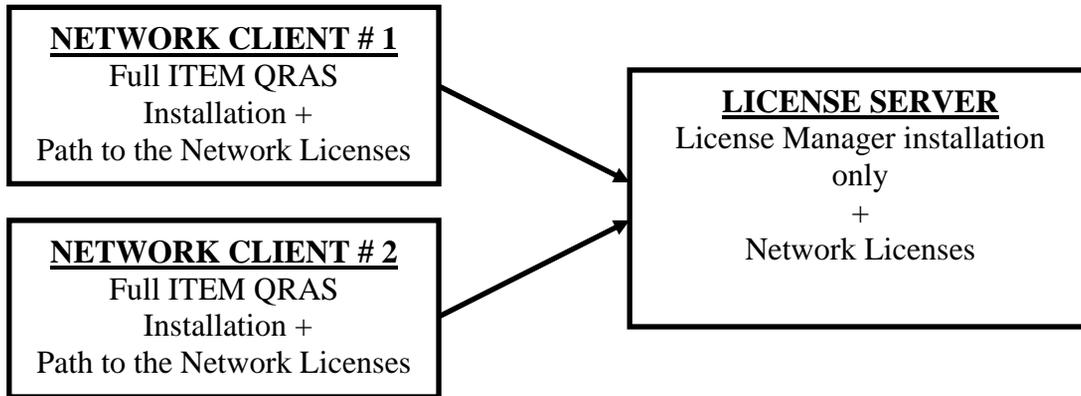
ITEM QRAS supports four types of installation: Standalone, Network Server, License Server and Network Client. This chapter will provide you the required instruction for installing the License Server Software. It contains the following sections:

- What is License Server Installation?
- Installing the License Manager Software
- Activating and Verifying the Licenses
- Setting Up the License Manager

## What Is License Server Installation?

License Server Installation is designed to provide access to the License Key through a network. After installing the License Manager software on the Network Server, the Network Client installation must be performed on the client workstation. **Only the License Manager will be installed on the server, ITEM QRAS will not be installed and cannot be run on the server.**

This option is intended for a single user or multiple users that are required to have the Software Licenses installed on a shared license server. The number of users accessing the software will be limited to the number of licenses purchased.



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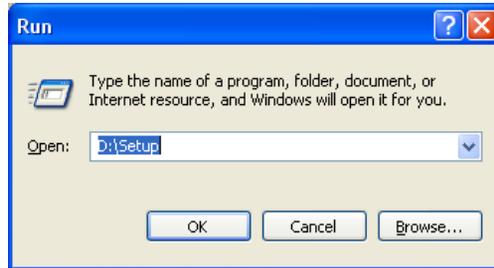
**NOTE** *The following must be noted when installing the software on a network server:*

- THE INSTALLATION MUST BE PHYSICALLY PERFORMED AT THE DESIGNATED NETWORK SERVER AND CANNOT BE DONE FROM A REMOTE WORKSTATION.
  - THE LICENSE MANAGER MUST BE INSTALLED ON THE SERVER BEFORE IT CAN BE INSTALLED ON A NETWORK CLIENT.
  - SERVER INSTALLATION REQUIRES **FULL** ADMINISTRATIVE RIGHTS.
  - THE PROGRAM INSTALLATION FOLDER (FOR EXAMPLE: C:\Program Files \Item\ QRAS\ Programs) INSTALLED ON THE NETWORK SERVER MUST BE SHARED BETWEEN THE NETWORK SERVER AND CLIENT WORKSTATION.
  - NETWORK CLIENT MUST HAVE FULL ACCESS RIGHTS TO THE PROGRAMS FOLDER (FOR EXAMPLE: C:\Program Files \Item\ QRAS\ Programs) INSTALLED ON THE NETWORK SERVER.
-

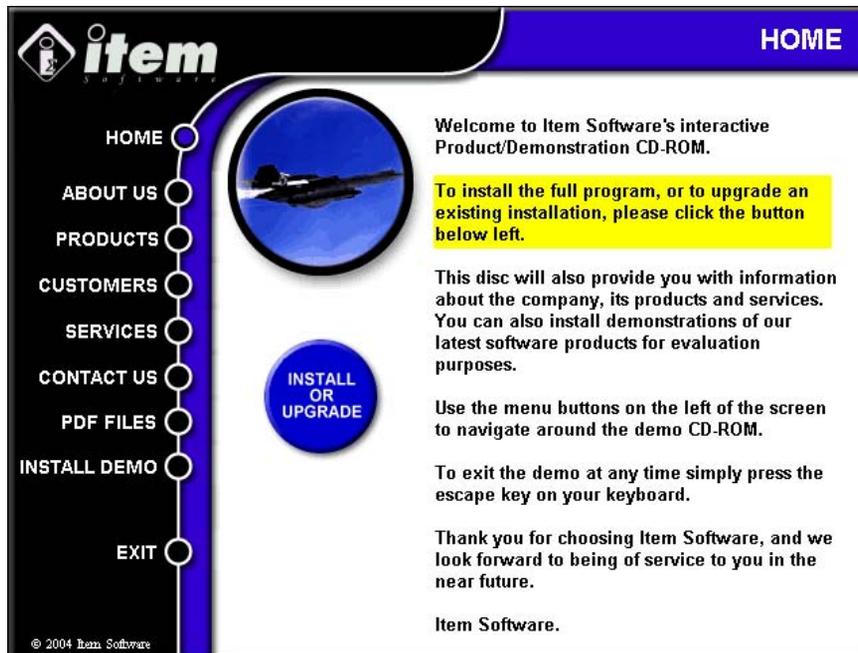
## Installing the License Manager

The Install Wizard will guide you through simple steps for installing ITEM QRAS. Please complete the following steps:

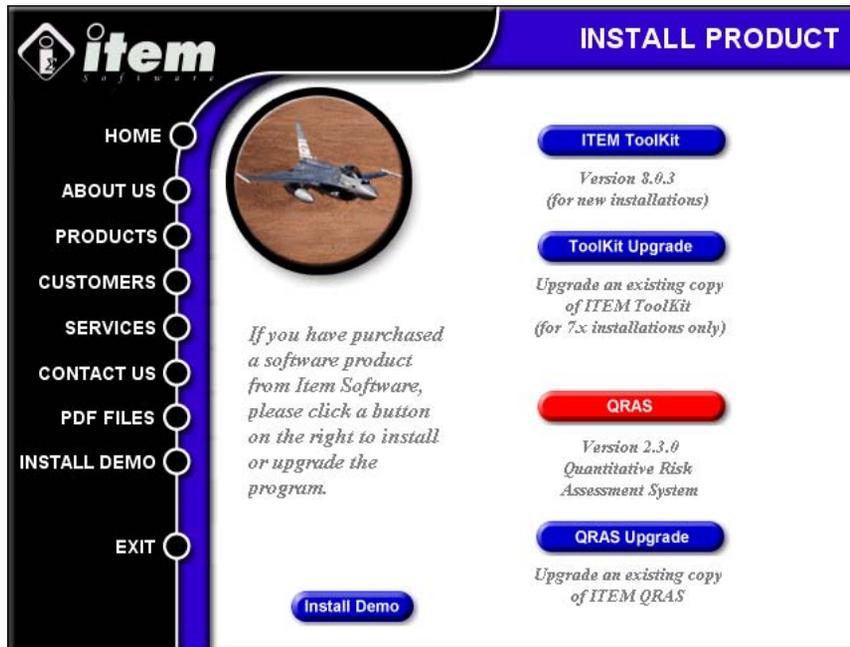
- Insert the ITEM QRAS CD into your CD-ROM drive.
- If the Auto Run feature is not activated, choose **Run** from the **Start** Menu. The Run dialog box appears.



- In the Run dialog box, type **D:\setup** (replace the letter D with the correct letter for your CD-ROM drive).
- Click **OK** to activate the installation program.
- If the Auto Run feature is activated, the following screen appears.



- Select Install or Upgrade.



- Select ITEM QRAS. The installation wizard begins.

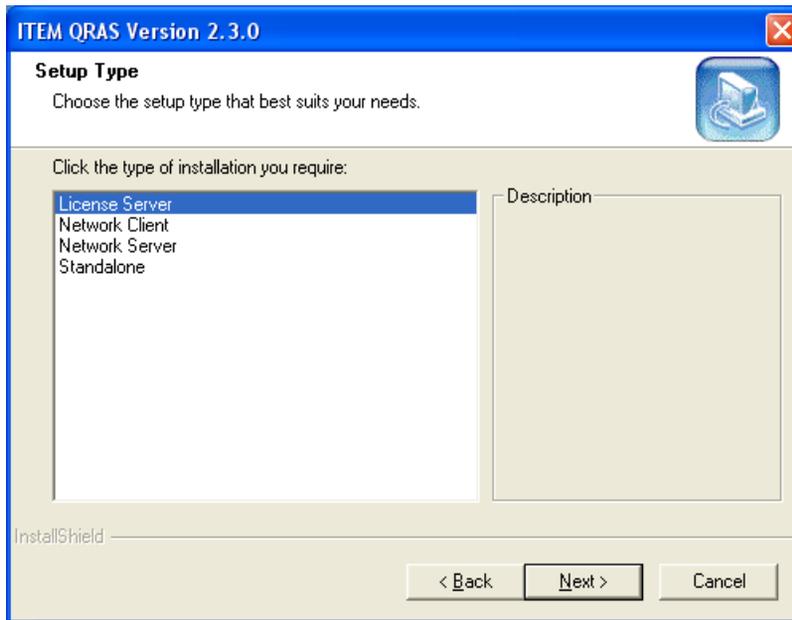


- Enter the password you have been provided with to begin installation.

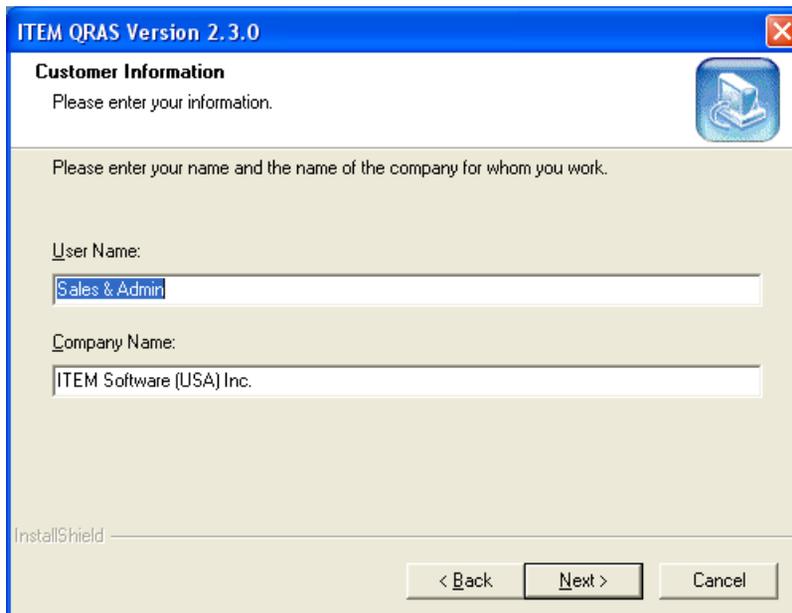
**NOTE** *If the following window appears, click **Yes** to allow the process to uninstall the existing installation, and then restart the installation process.*



- Click **Next** and the following Setup Type dialog box appears.

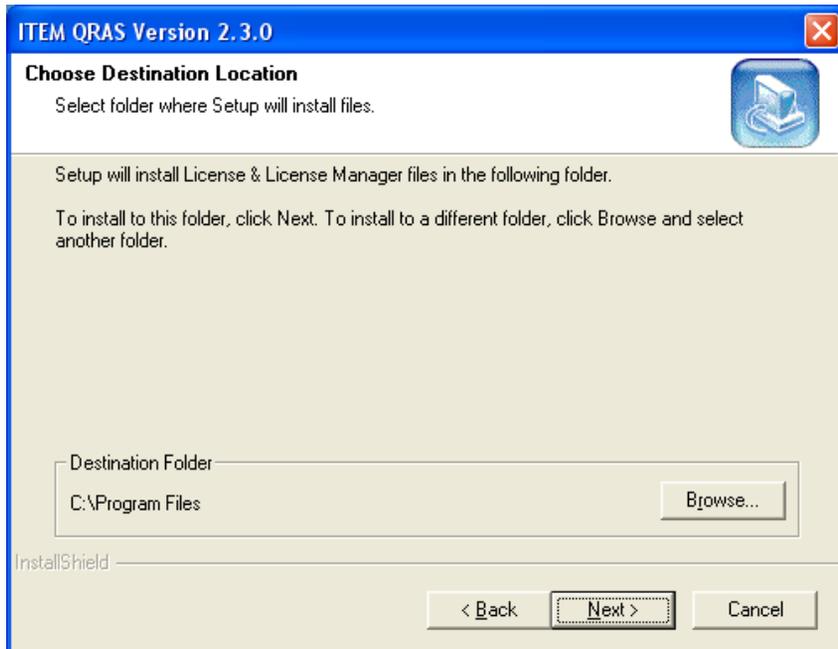


- Choose **License Server** and click **Next**.
- The License Agreement dialog box appears. Read the license agreement carefully and click **Yes** to accept or **No** to decline. If you click No, the setup program closes.
- The Customer Information dialog box appears. Type the user name and the company name in the appropriate boxes, and then click **Next**.

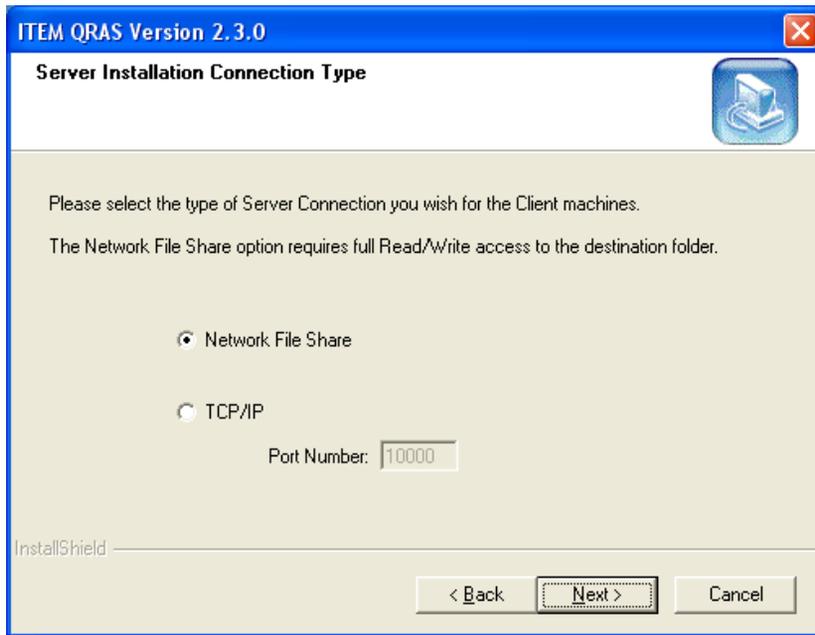


- The Choose Destination Location dialog box appears. To choose a destination folder that the programs file should be installed into, click **Next** to accept the default destination folder or click **Browse**, select an alternate folder, then click **Next**.

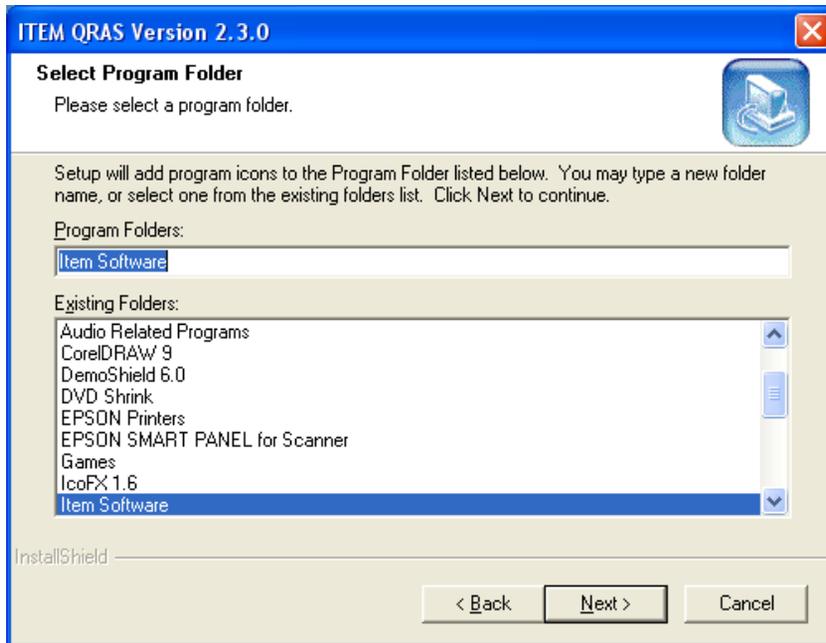
**NOTE** *The destination folder must be shared on the network to provide access to all network clients.*



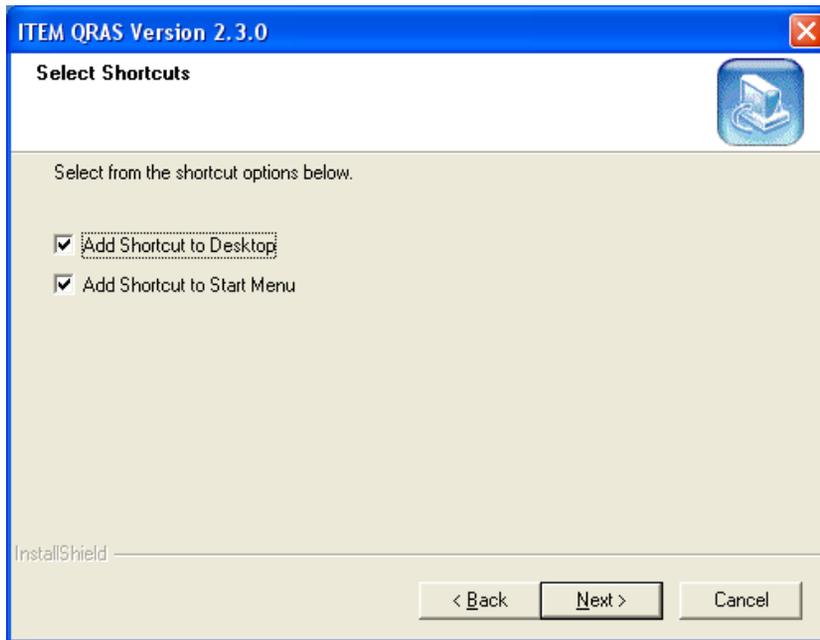
- The Server Installation Connection Type dialog appears. Select the type of connection you wish for the client machine. The choice is either Network File Share or TCP/IP. With the former option full read/write access to the destination folder is required. With the latter option, you must also enter a port number. If you are unsure which option to select, please consult your Network Administrator. Once your choice has been made click **Next**.



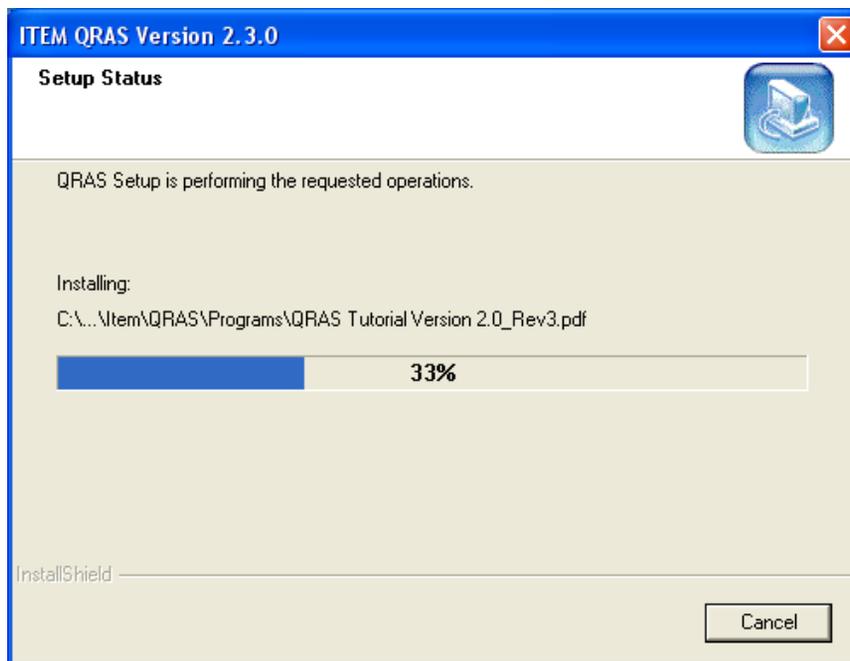
- The Select Program Folder dialog box appears. To accept the Item Software folder, click **Next**. To create a new folder, type the name of the new folder in the Program Folder box, and then click **Next**. To select an existing folder, locate the desired folder in the Existing Folders list, select it, and then click **Next**.



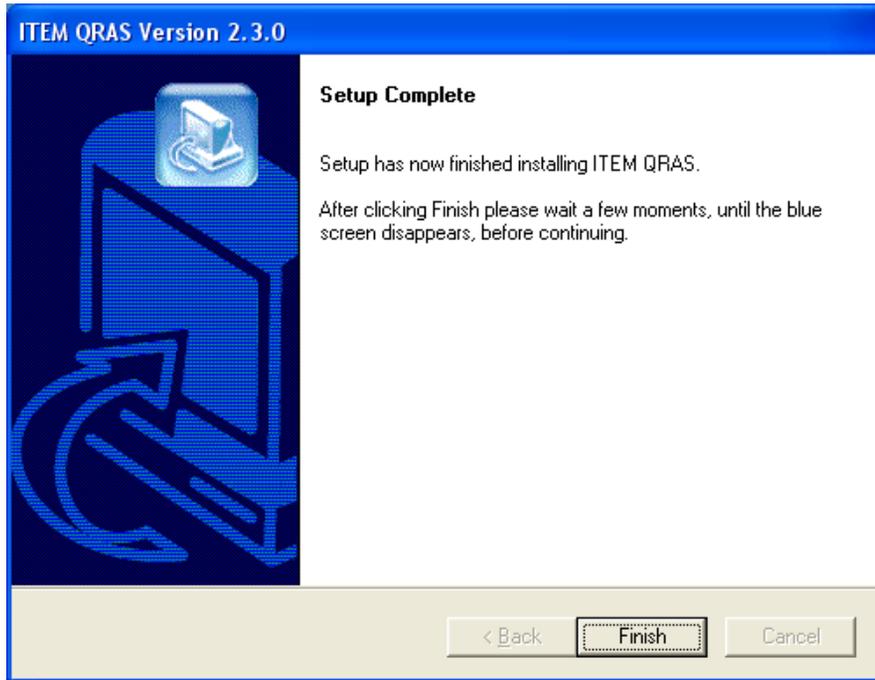
- The option to add icons to the desktop is the next window to appear.



- The Setup Status dialog box appears and displays the progress of the installation.



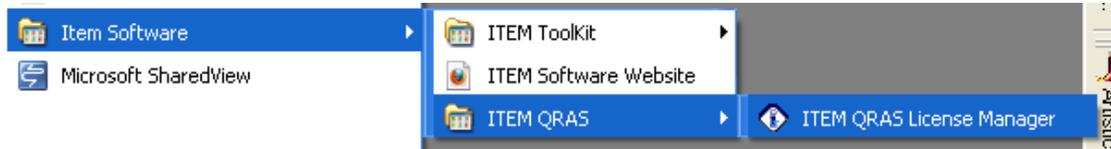
- When the InstallShield Wizard Complete dialog box appears, click **Finish**.



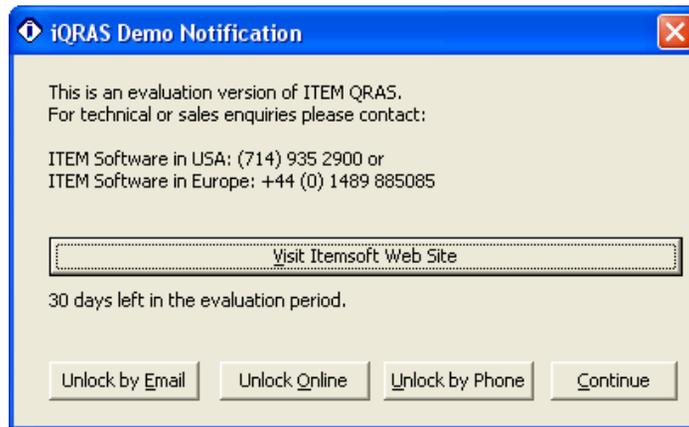
## Activating the Licenses

Once the License Manager Software is installed, the license must be activated. If not, only the demonstration mode features will be available at the client workstations.

- From the **Start Menu**, select **Programs\Item Software\ ITEM QRAS\ITEM QRAS License Manager**.



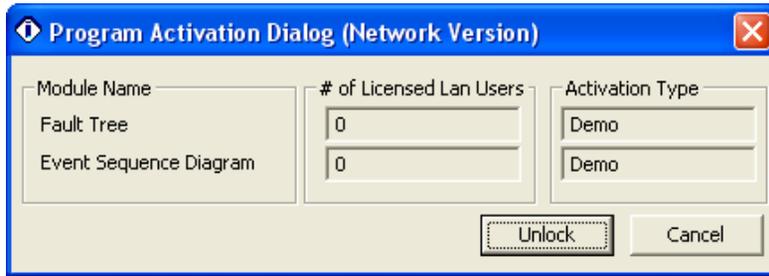
- The Demo Notification dialog box appears. Select one of the unlock options.



- Selecting **Unlock Online** opens the following dialog:



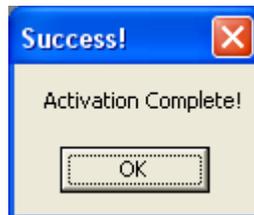
- Enter the required information and click **OK**
- Selecting **Unlock by Phone** opens the **Program Activation Dialog**:



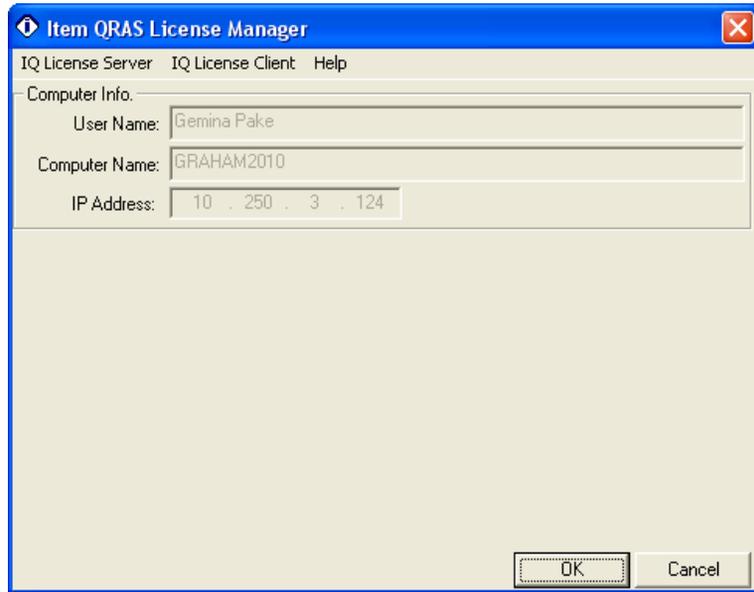
- Selecting Unlock opens the following dialog:



- Your system will generate User Code 1 and User Code 2 numbers.
- The User Codes are required for activation of your program. These numbers must be presented to an Item Software representative by telephone or email.
- Item Software will then supply the License ID, Password and Registration Keys.
- Enter these details in the boxes, and then click Unlock.
- The Activation Complete box appears.



- Click OK and the License Manager opens. Click Cancel to exit the License Manager.



**Item QRAS License Manager**

IQ License Server   IQ License Client   Help

Computer Info.

User Name: Gemina Pake

Computer Name: GRAHAM2010

IP Address: 10 . 250 . 3 . 124

OK   Cancel

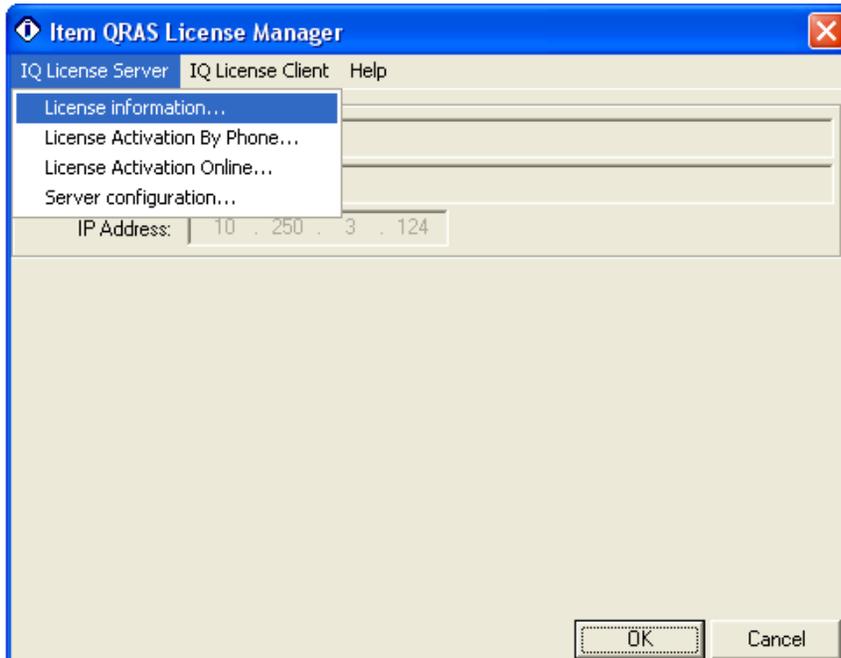
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**NOTE** *If you click Continue from the Demo Notification Dialog Box, the License Manager opens and you can unlock modules from here by selecting IQ License Server and then License Activation.*

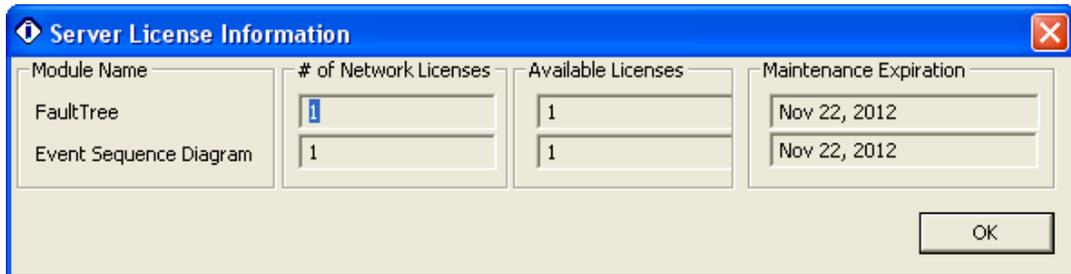
---

## Verifying the Licenses

- Click on IQ License Server and select License Information.



- The Server License Information window appears giving you the number of purchased and available license.

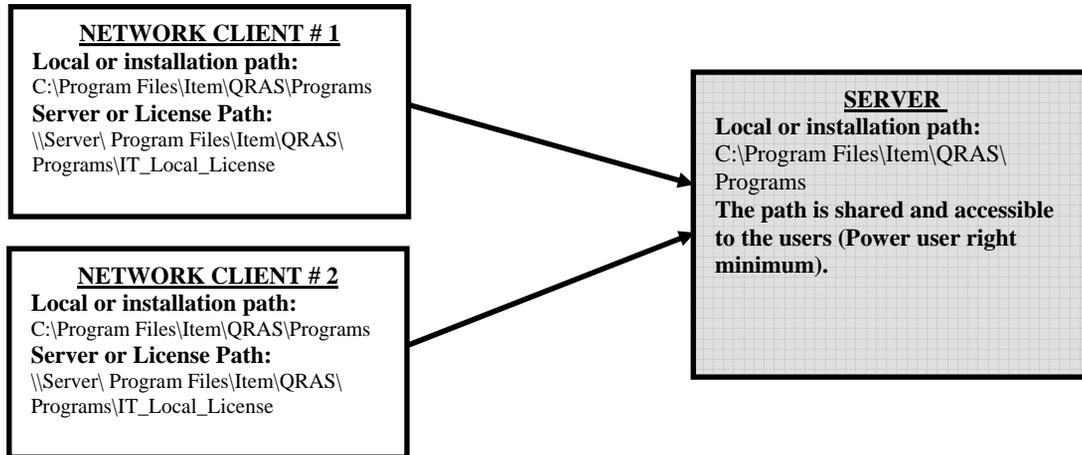


## Setting Up the License Manager

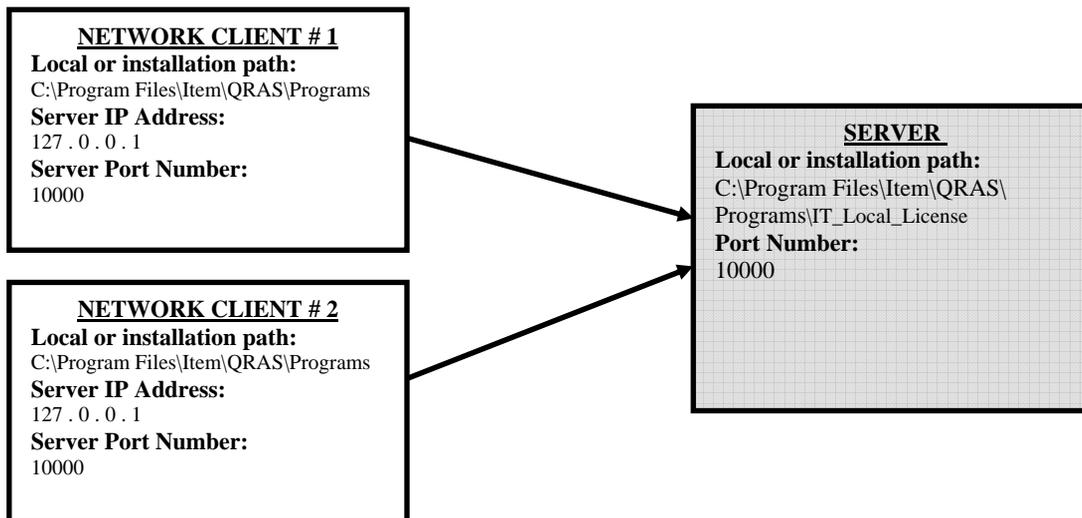
Once the licenses are activated, the license manager needs to be set with the correct types of network connections.

ITEM QRAS has two types of network connections available.

### Network File Share Connections: (LAN, WAN Connections)



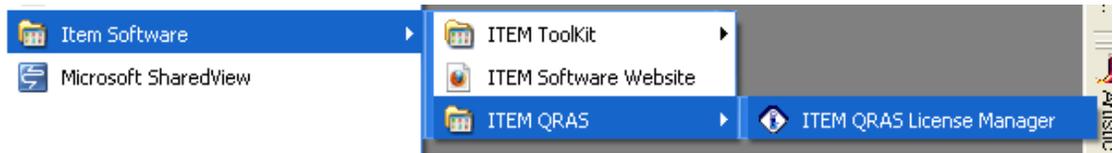
### TCP/IP Connections: (Internet Connections)



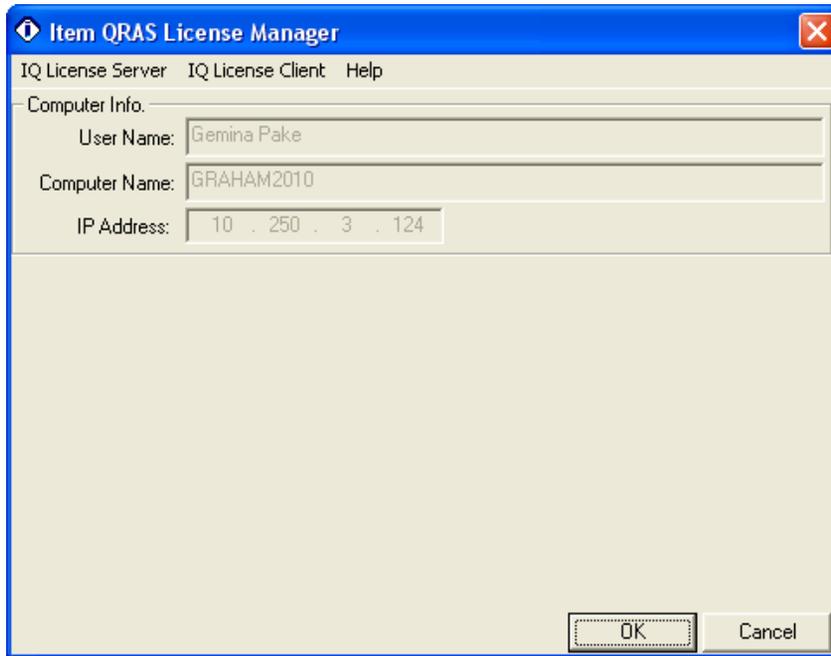
Server path, IP Address and Server Port Number should be obtained from your Network Administrator.

## Network File Share Connections Setup

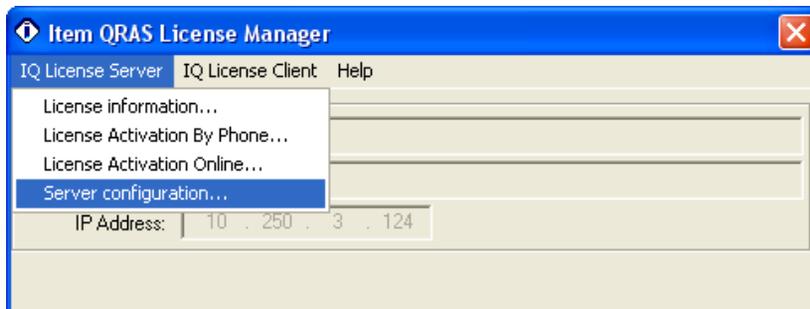
- From the **Start Menu**, select **Programs\Item Software\ ITEM QRAS\ITEM QRAS License Manager**.



- The License Manager Dialog box appears.



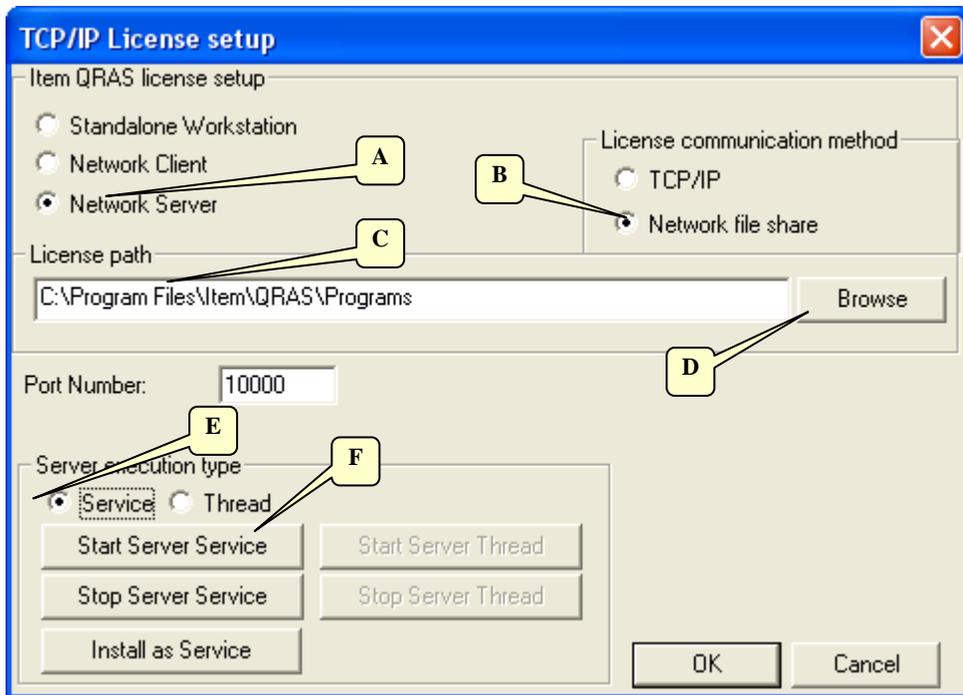
- Click on **IQ License Server** from the top menu and select **Server configuration**.



- The license setup window opens.
-

- Verify that Network Server is selected (A).
- Select Network file share (B).
- Verify the License path (C). If the path is incorrect, click on Browse (D) and select the folder where the license keys are located.
- Select Service (E) for execution type and click on "Start Server Service" (F).

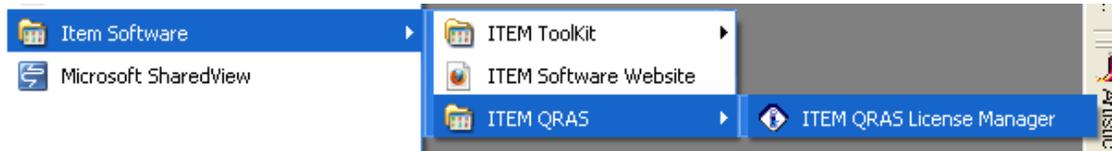
**NOTE** *Selecting Thread for the Server execution type is for troubleshooting purposes only and will stop the service when exiting the license manager.*



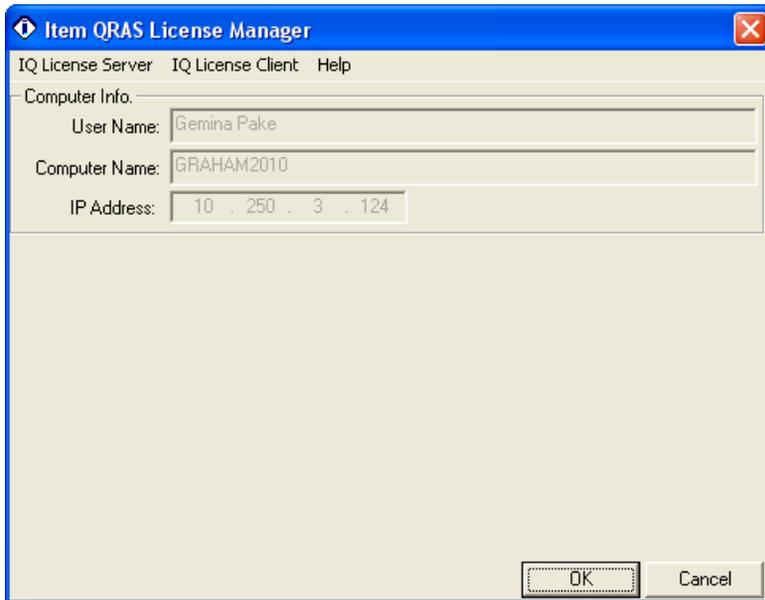
- Click "OK" when finished.

## Network TCP/IP Connections Setup

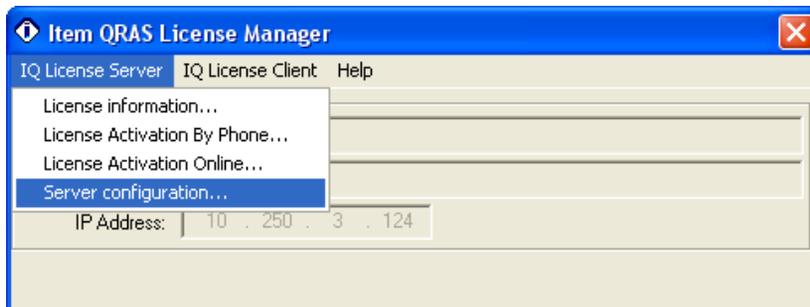
- From the **Start Menu**, select **Programs\Item Software\ ITEM QRAS\ITEM QRAS License Manager**.



- The License Manager Dialog box appears.



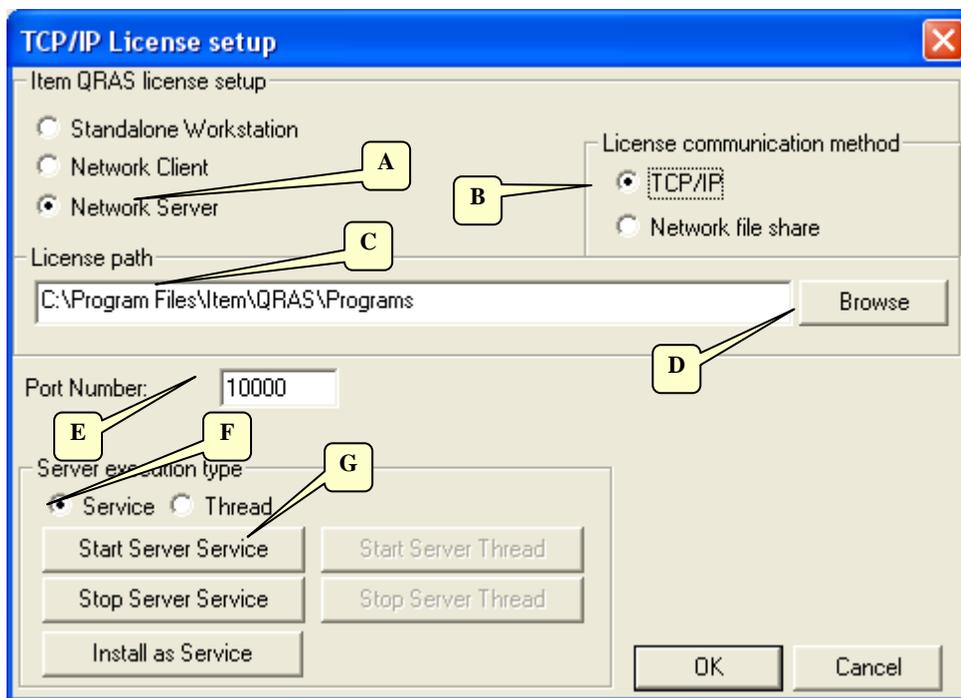
- Click on **IQ License Server** from the top menu and select **Server configuration**.



- The license setup window opens.
-

- Verify that Network Server is selected (A).
- Select TCP/IP (B).
- Verify the License path (C). If the path is incorrect, click on Browse (D) and select the folder where the license keys are located.
- Enter the Port Number (E).
- Select Service (F) for execution type and click on "Start Server Service" (G).

**NOTE** *Selecting Thread for the Server execution type is for troubleshooting purposes only and will stop the service when exiting the license manager.*



- Click "OK" when finished.



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# CHAPTER 5

## Network Client Installation

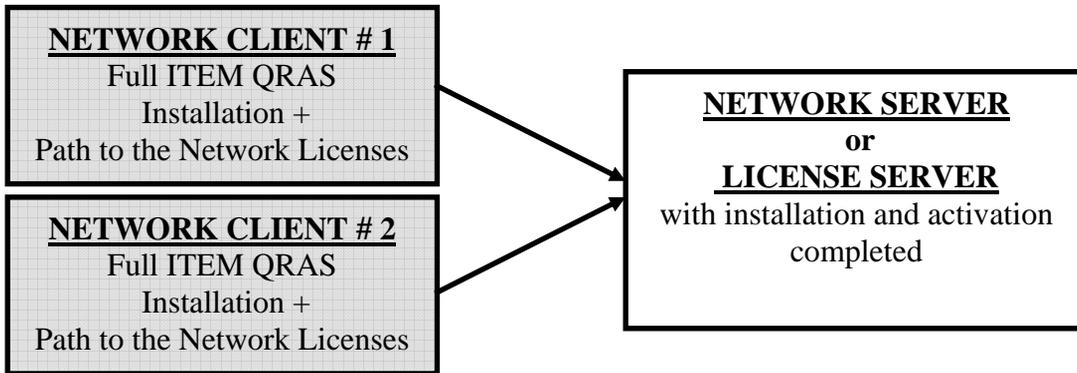
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ITEM QRAS supports four types of installation: Standalone, Network Server, Network License Server and Network Client. This chapter will provide you the required instruction for installing the software as a Network Client. It contains the following sections:

- What is Network Client Installation?
- Installing the Software
- Activating the Software
- Setting Up Network Client
- Verifying the Software

## What Is Network Client Installation?

Network Client Installation is designed to install ITEM QRAS on the client workstation and to create a path from the client workstation to the network server. Upon completing the installation of the Network Client (client workstation), the license keys that are installed on your network server can be accessed from the client workstation. Network server installation must be present and activated within your network prior to installing the Network Client.



---

**NOTE** *The following must be noted when installing the software on a Network Client:*

---

- NETWORK CLIENT INSTALLATION MUST BE PHYSICALLY PERFORMED AT THE DESIGNATED CLIENT WORKSTATION AND CANNOT BE PERFORMED FROM REMOTE WORKSTATION OR SERVER.
  - QRAS OR THE LICENSE MANAGER MUST BE INSTALLED ON THE NETWORK SERVER BEFORE DOING A NETWORK CLIENT INSTALLATION.
  - NETWORK CLIENT INSTALLATION REQUIRES **FULL** ADMINISTRATIVE RIGHTS.
  - THE PROGRAMS FOLDER (FOR EXAMPLE: C:\PROGRAM FILES \ITEM\ QRAS\ PROGRAMS) INSTALLED ON THE NETWORK SERVER MUST BE SHARED BETWEEN THE NETWORK SERVER AND CLIENT WORKSTATION.
  - NETWORK CLIENT MUST HAVE FULL ACCESS RIGHTS TO THE PROGRAMS FOLDER (FOR EXAMPLE: C:\PROGRAM FILES \ITEM\ QRAS\ PROGRAMS) INSTALLED ON THE NETWORK SERVER.
-

## Installing the Software

The Install Wizard will guide you through simple steps for installing ITEM QRAS. Please complete the following steps:

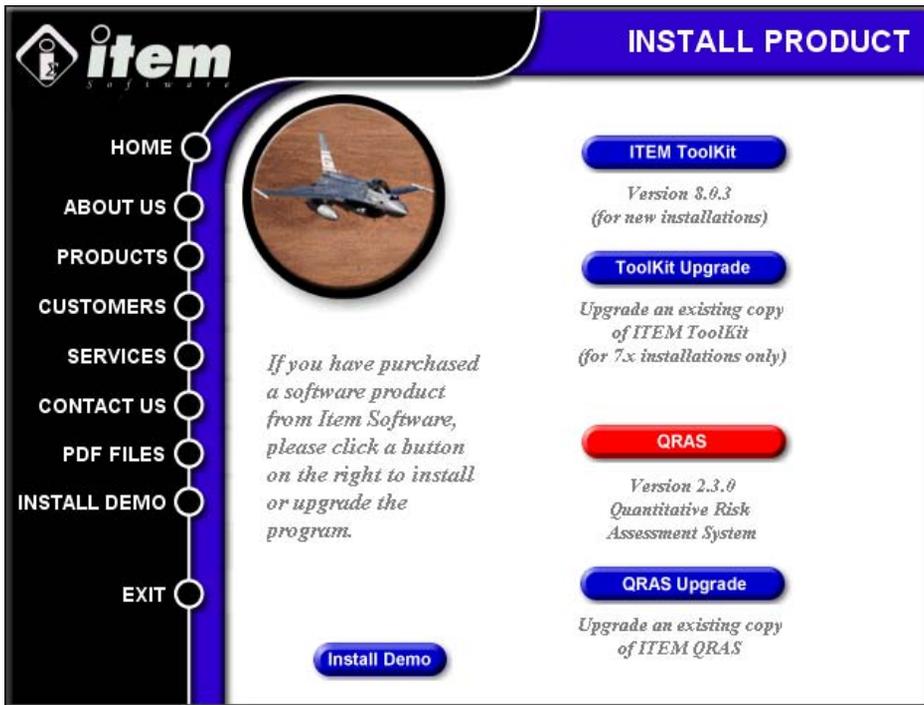
- Insert the QRAS CD into your CD-ROM drive.
- If the Auto Run feature is not activated, choose **Run** from the **Start Menu**. The Run dialog box appears.



- In the Run dialog box, type **D:\setup** (replace the letter D with the correct letter for your CD-ROM drive).
- Click **OK** to activate the installation program.
- If the Auto Run feature is activated, the following screen appears.



- Select Install or Upgrade.



- Select ITEM QRAS. The installation wizard begins.

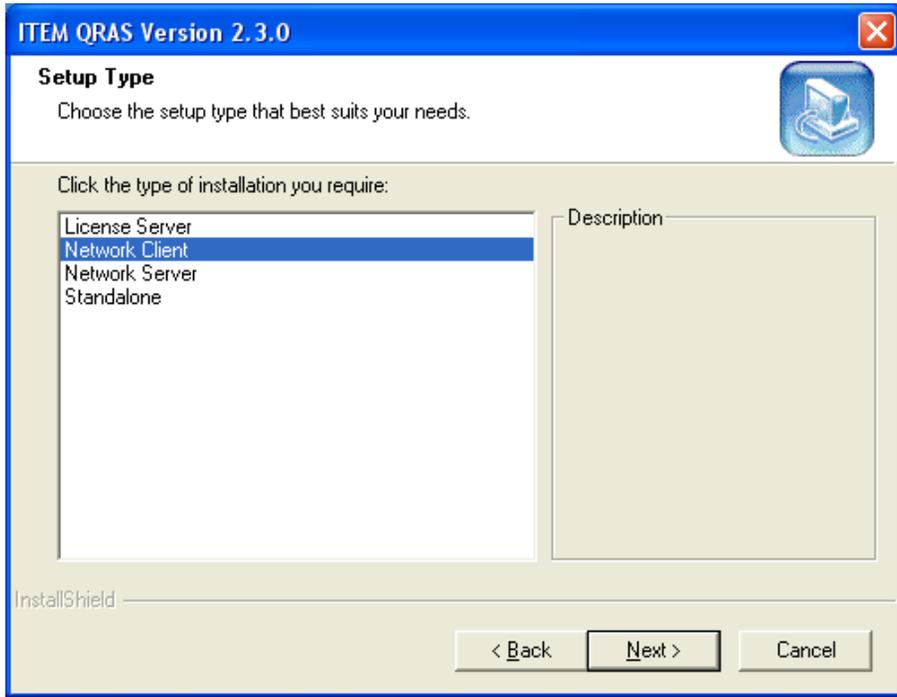


- Enter the password you have been provided with to begin installation.

**NOTE** *If the following window appears, click **Yes** to allow the process to uninstall the existing installation, and then restart the installation process.*



- Click **Next** and the following Setup Type dialog box appears.



- Choose **Network Client** and click **Next**.
- The License Agreement dialog box appears. Read the license agreement carefully and click **Yes** to accept or **No** to decline. If you click No, the setup program closes.
- The Customer Information dialog box appears. Type the user name and the company name in the appropriate boxes, and then click **Next**.

ITEM QRAS Version 2.3.0

**Customer Information**

Please enter your information.

Please enter your name and the name of the company for whom you work.

User Name:  
Sales & Admin

Company Name:  
ITEM Software (USA) Inc.

InstallShield

< Back   Next >   Cancel

- The Choose Destination Location dialog box appears. To choose a destination folder that the program files should be installed into, click **Next** to accept the default destination folder or click **Browse**, select an alternate folder, then click **Next**.

ITEM QRAS Version 2.3.0

**Choose Destination Location**

Select folder where Setup will install files.

Setup will install QRAS in the following folder.

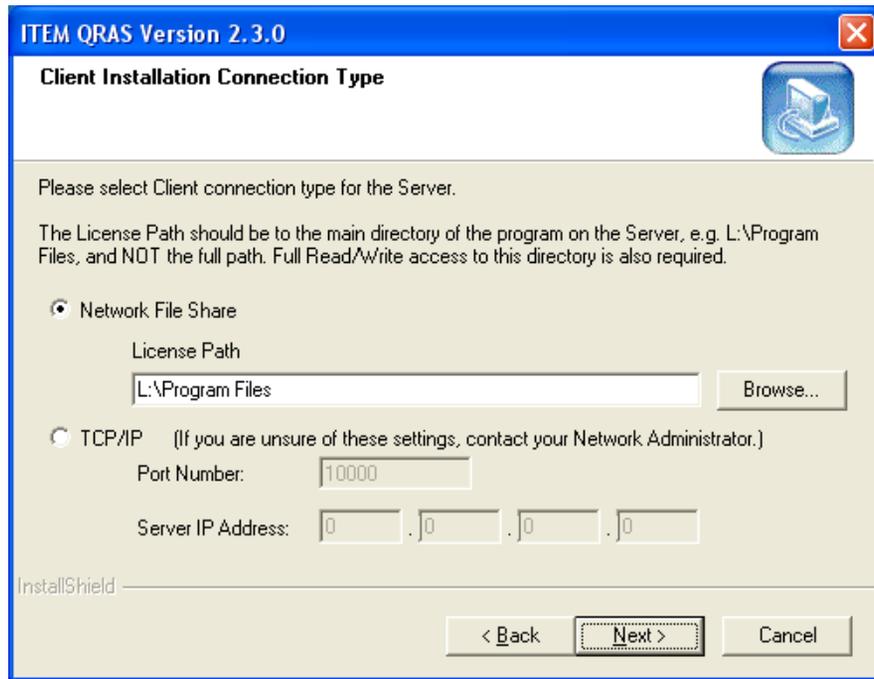
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder  
C:\Program Files   Browse...

InstallShield

< Back   Next >   Cancel

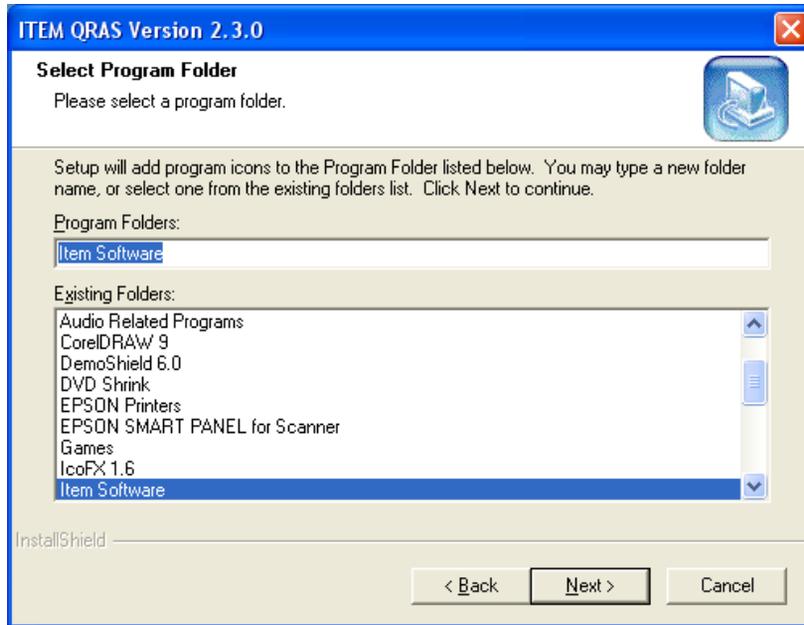
- The Choose Network Destination Path dialog box appears.



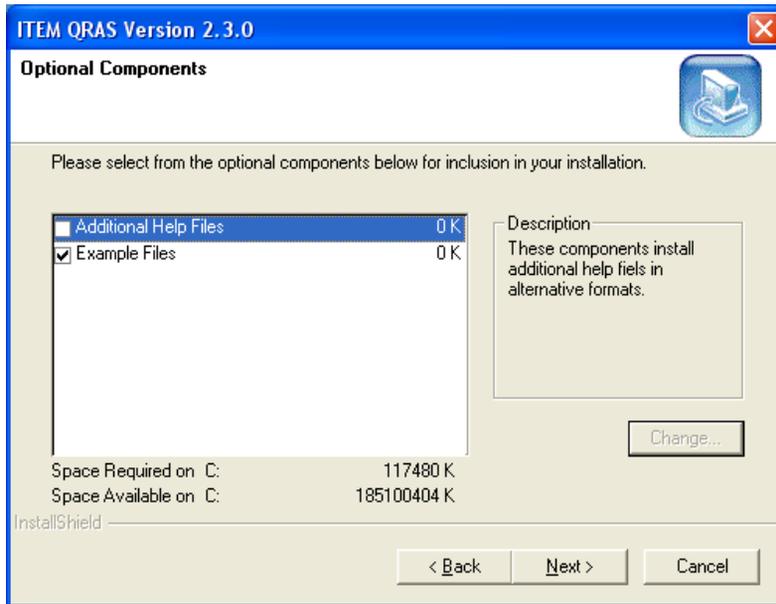
- For Network File Share connection type, click Browse to select the path from the client workstation to the directory containing the program on the Network Server.
- The Path dialog box appears.



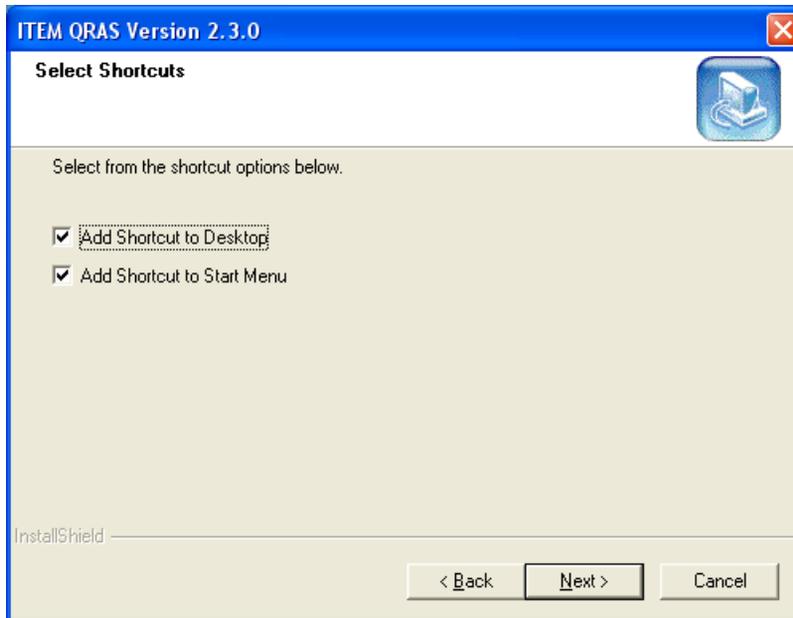
- Select the folder on the Network Server where the ITEM QRAS program files have been installed, click OK and click **Next** to continue.
- For TCP/IP connection type, enter the Port Number and Server IP Address. If you are unsure of these settings, please contact your Network Administrator. Click **Next** to continue.
- The Select Program Folder dialog box appears. To accept the Item Software folder, click **Next**. To create a new folder, type the name of the new folder in the Program Folder box, and then click **Next**. To select an existing folder, locate the desired folder in the Existing Folders list, select it, and then click **Next**.



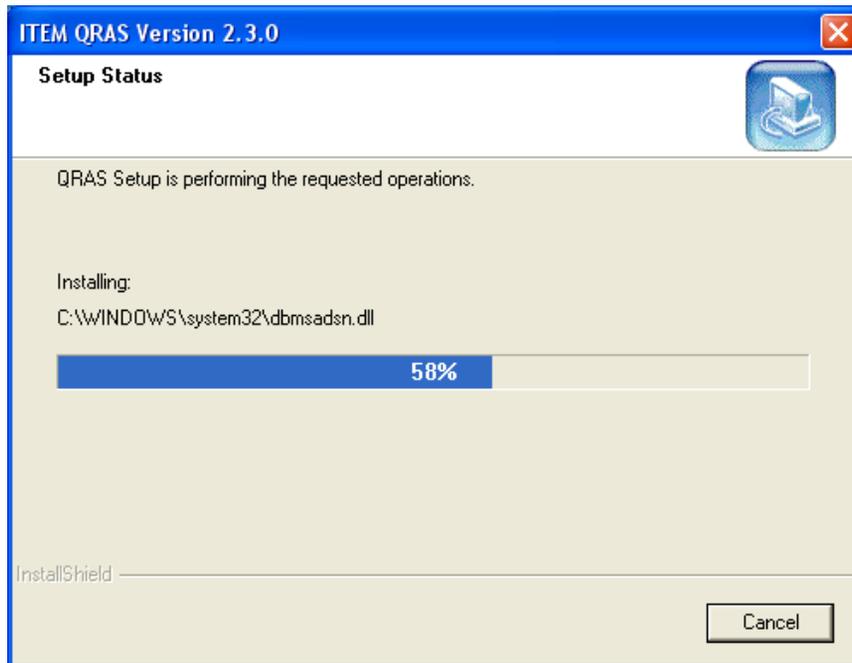
- Select the optional Components to be installed, and then click **Next**.



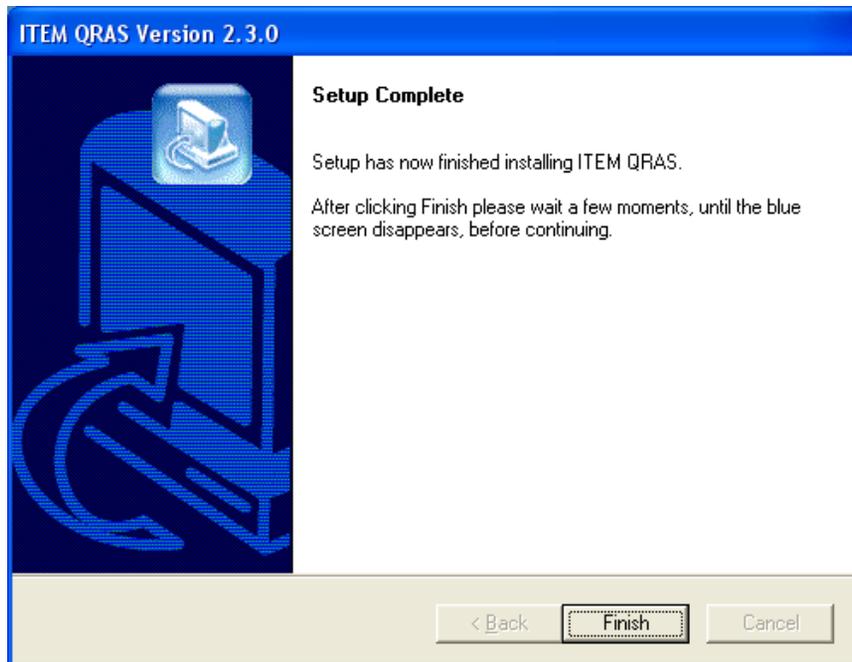
- The option to add icons to the desktop is the next window to appear.



- The Setup Status dialog box appears and displays the progress of the installation.



- When the InstallShield Wizard Complete dialog box appears, click **Finish**.



## Activating the Software

A Network Client cannot be activated and once the software is installed, it should open normally and read the License Key located on the Server.

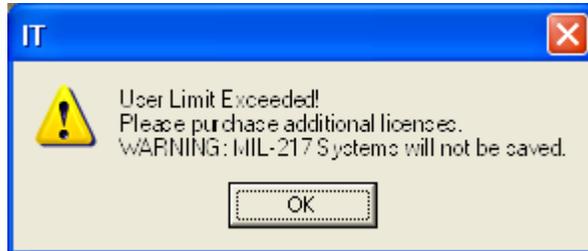
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**NOTE** ITEM QRAS will display error messages if:

1. The software cannot read the License Key because the Network Server is down, the connection is lost, the client is logged off or the Network Path is incorrect.
  2. You have more users than licenses available.
- 



*License problem warning Box*



*User Limit Exceeded Warning Box*

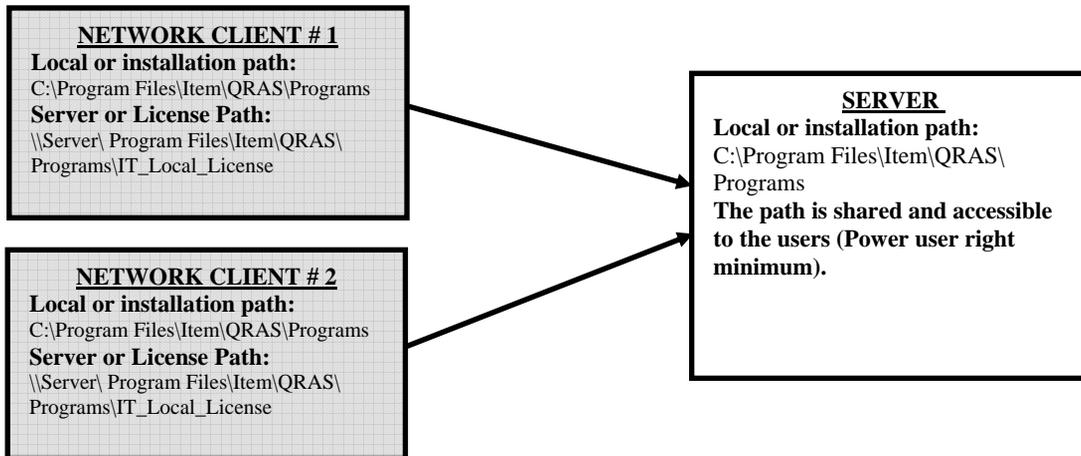
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## Setting Up the Network Client

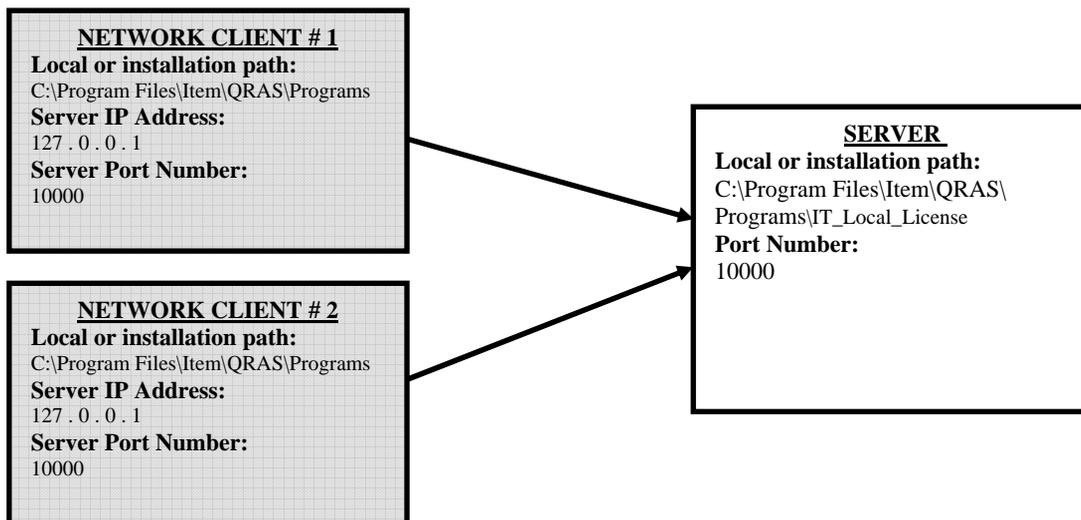
Once the Network Client version of QRAS is installed, the Client license manager needs to be set with the correct types of network connections.

ITEM QRAS has two types of network connections available.

### Network File Share Connections: (LAN, WAN Connections)



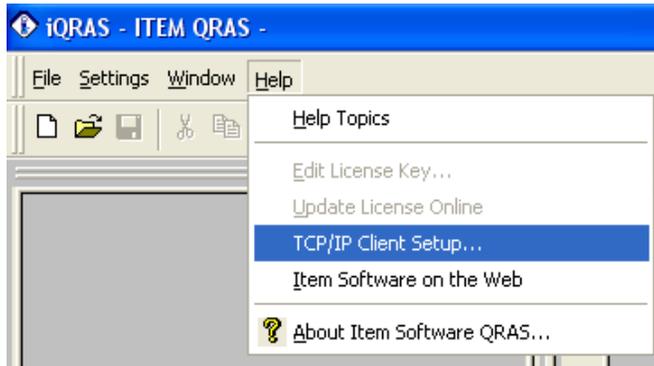
### TCP/IP Connections: (Internet Connections)



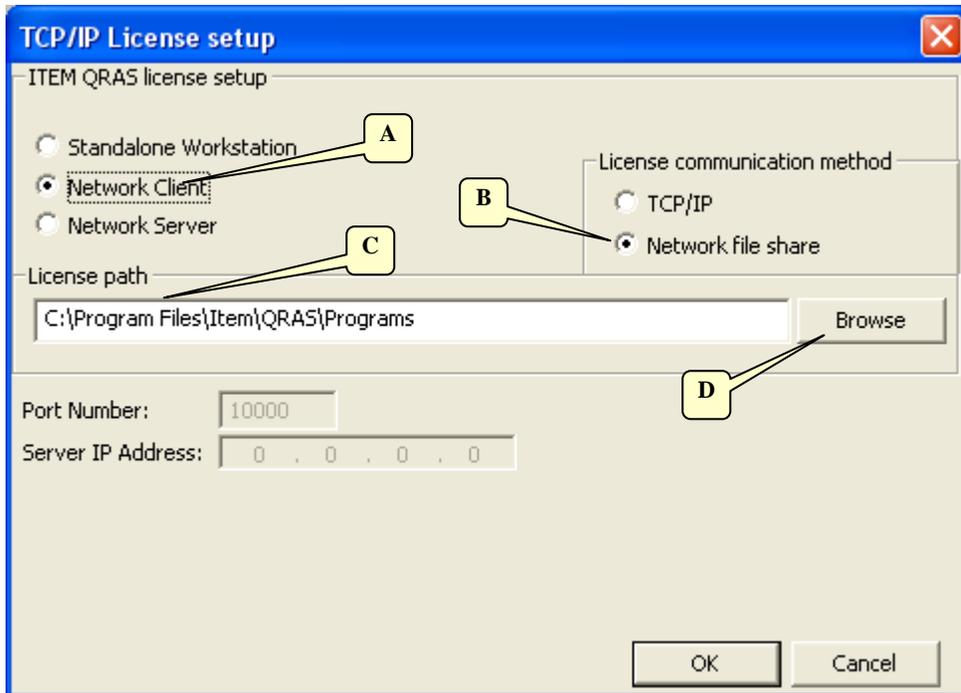
Server path, IP Address and Server Port Number should be obtained from your Network Administrator.

## Network File Share Connections Setup

- Select Help From the **Standard Toolbar** and Select **TCP/IP Client Setup**.



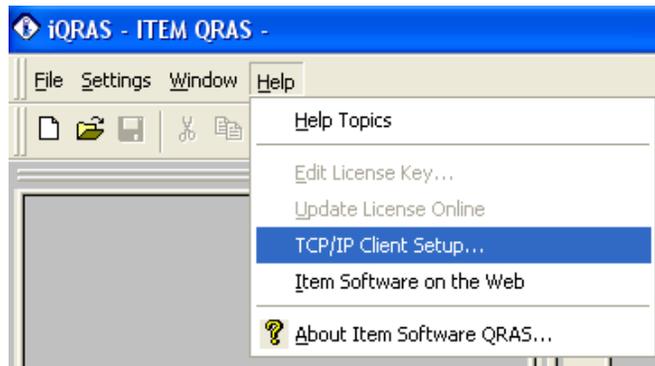
- The License setup window opens.
  - Verify that Network Client is selected (**A**).
  - Select Network file share (**B**).
  - Verify the License path (**C**). If the path is incorrect, click on Browse (**D**) and select the folder where the license keys are located.



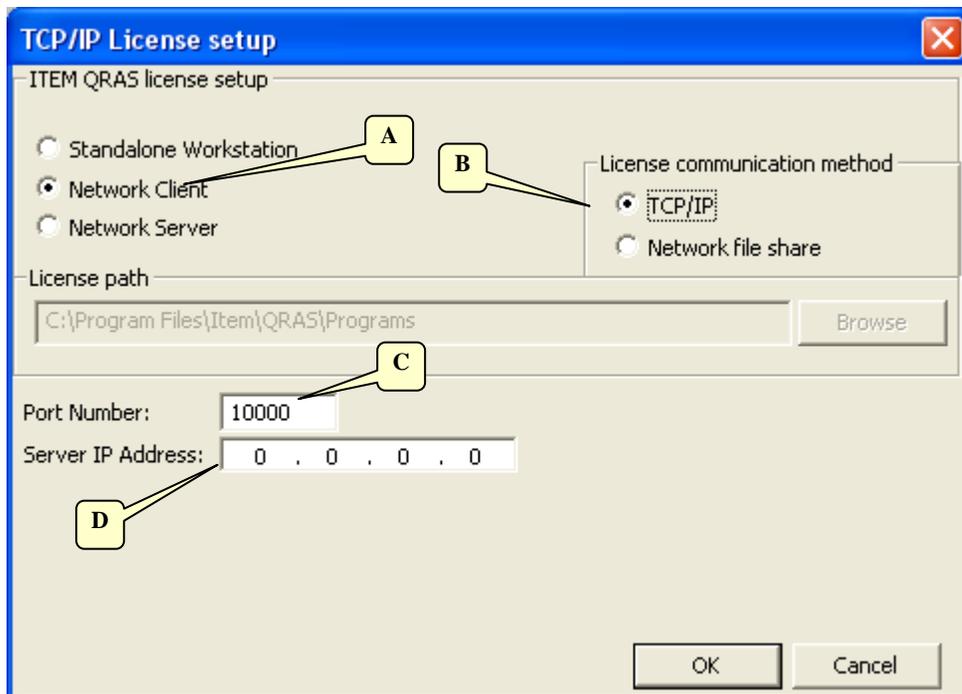
- Click "OK" when finished.

## Network TCP/IP Connections Setup

- Select Help From the **Standard Toolbar** and Select **TCP/IP Client Setup**.



- The License setup window opens.
  - Verify that Network Client is selected (**A**).
  - Select TCP/IP (**B**).
  - Enter the Server Port Number (**C**).
  - Enter the Server IP Address (**D**).



- Click "OK" when finished.

## Verifying the Software

### To Check Which Modules Are Activated

- Select Help From the **Standard Toolbar**.
- Select **About Item Software QRAS**.



- The About ITEM QRAS Dialog Box appears and you can check the Version of the software and which modules are in full version or Demo Version.



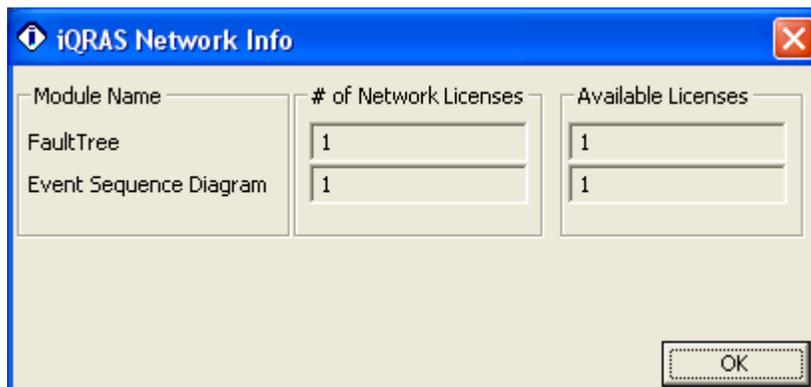
- Click "OK" when finished.

## To Check How Many Licenses Are Available

- Click on **Network Info (A)** in the About ITEM QRAS Dialog Box.



- Check how many Licenses are available. If no licenses are available for the module you want to open, wait until another client closes their application or purchase additional licenses.



- Click "OK" when finished.

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