

# Intelligent Test Framework Software Solutions Upgrade Guide


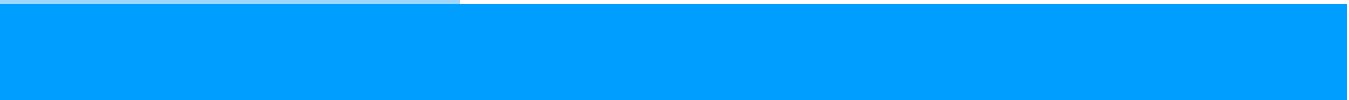
Version 3.1

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January 2005



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# Intelligent Test Framework Upgrade Guide

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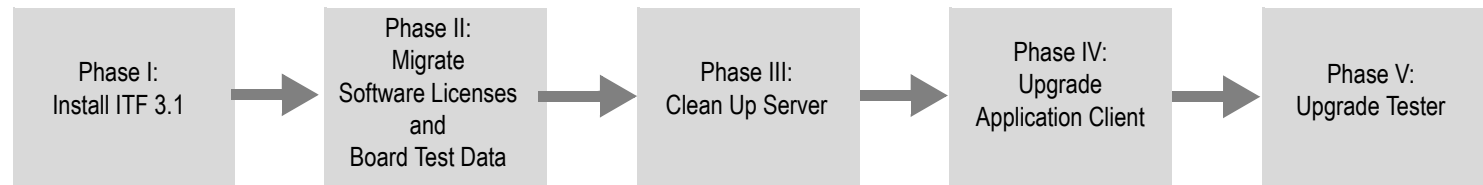
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This upgrade guide provides information on the upgrade procedure from ITF Software Solutions 3.0 to ITF Software Solutions 3.1 for existing customers.

**Figure 1-1** shows a suggested upgrade procedure.

**Figure 1-1** Suggested Upgrade Procedure



A logical process would be to carry out the following five main phases:

- Phase I: Installing ITF 3.1
- Phase II: Migrating Software Licenses and Board Test Data
- Phase III: Cleaning Up the ITF Server (Optional)
- Phase IV: Upgrading the Application Clients
- Phase V: Upgrading the Testers

In actual implementation, the sequence may vary from the one listed as long as the following conditions are met:

- Phase I is completed first.
- Phase II is completed before Phase III.

## CAUTION



It is essential that you follow the instructions exactly, in the order given. If you do not follow the Upgrade Guide exactly, the system may not function properly.

# Phase I: Installing ITF 3.1

## Overview

This chapter provides instructions on installing ITF 3.1.

Before you proceed, ensure that the ITF Server is one of the following supported ITF Server types and that it meets the pre-installation requirements.

### Supported ITF Server Types

- Entry ITF Server (Compaq ML370, HP e800, HP LH3000)
- Standard ITF Server (Compaq ML370, HP LH3000)
- Single Tester ITF Server (Compaq Evo D510)

### Pre-Installation Requirements

- The ITF Server belongs to one of the supported ITF Server types listed in the preceding section.
- The ITF Server is currently installed with Intelligent Test Framework 03.00 with or without any patches.
- The ITF Server has an additional hard disk space of 1 GB.
- All ITF-related applications and processes on the ITF Server are stopped.

- The SQL server must have **SQL Server and Windows** selected for the **Authentication** property. If not, follow the instructions in the section, **Setting the Authentication property** to set it.

### CAUTION



Whenever you change the time settings on the ITF Server, you must restart the system.

### Setting the Authentication property

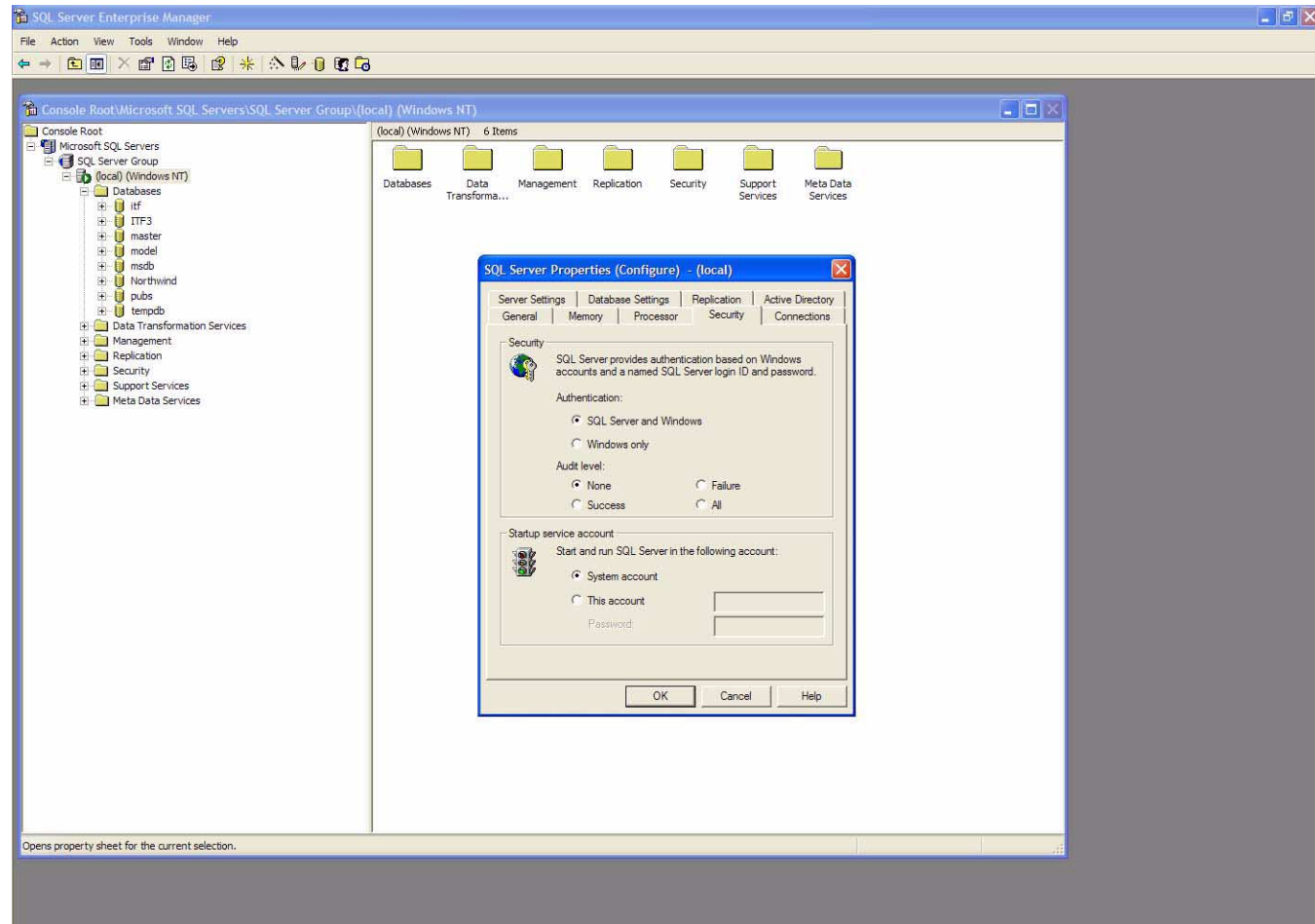
To set the **Authentication** properly:

- 1 Click **Start > Programs > Microsoft SQL Server > Enterprise Manager**.
- 2 In the console tree, select **Console Root > Microsoft SQL Servers > SQL Server Group > (local) (Windows NT)**.
- 3 Right-click **(local) (Windows NT)**, and then select **Properties**.  
The **SQL Server Properties (Configure)** dialog box appears.
- 4 Click the **Security** tab.
- 5 Under **Authentication**, ensure that the **SQL Server and Windows** option is selected.

- 6 If it is already selected, click **Cancel** and close the Enterprise Manager.

If it is not, select it and click **OK** to save the setting.  
You will be prompted to restart the SQL Server.

**Figure 2-1** Setting the Authentication property





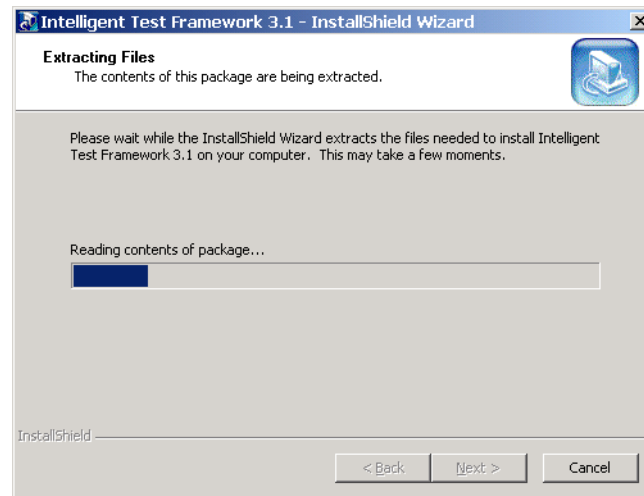
## Installing ITF 3.1

To install ITF Server Components and ITF Administration System:

- 1 Insert the ITF Server Installation CD into the ITF Server. The setup will start automatically. If it does not, double-click the file, `setup.exe`, in the CD.

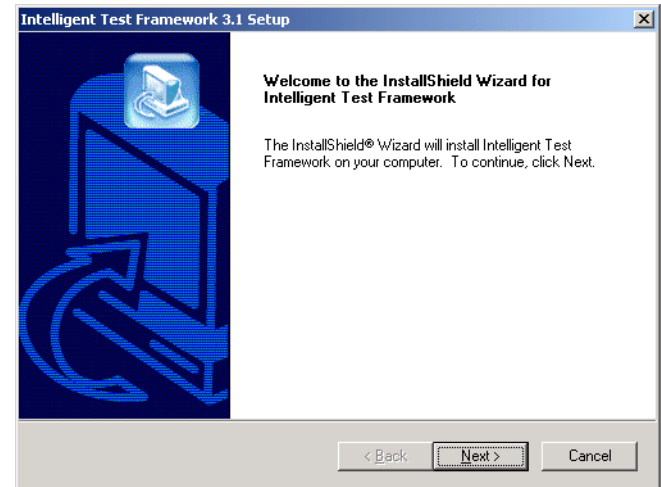
The setup program starts extracting files.

**Figure 2-2** Extracting files



After the files are extracted, the **Welcome** dialog box appears.

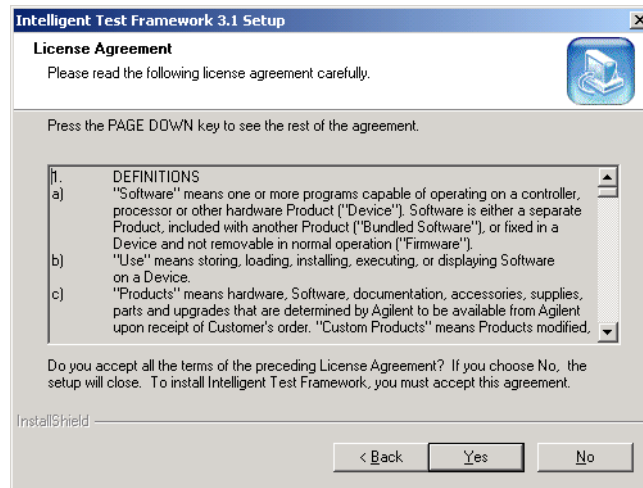
**Figure 2-3** Welcome dialog box



2 Click **Next**.

The **License Agreement** dialog box appears.

**Figure 2-4** License Agreement dialog box



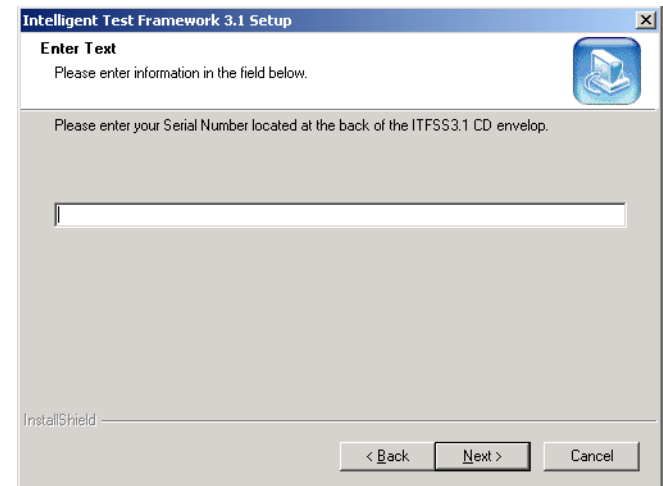
3 Read the Agilent License Agreement, and then click **Yes** to accept it.

The **Release Notes** dialog box appears.

4 Read the Release Notes, and then click **Next**.

The **Enter Text** dialog box for entering the ITFSS3.1 serial number appears.

**Figure 2-5** Enter ITFSS3.1 serial number



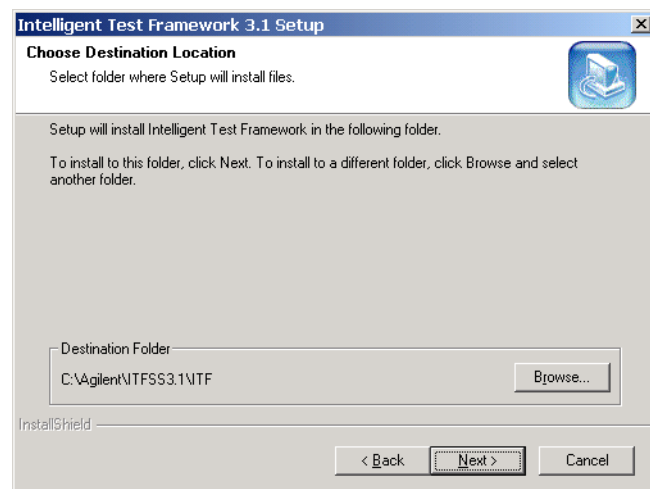
- 5 Enter the serial number located at the back of the ITFSS3.1 envelope and then click **Next**.

The **Choose Destination Location** dialog box appears.

The default directory is

C:\Agilent\ITFSS3.1\ITF\.

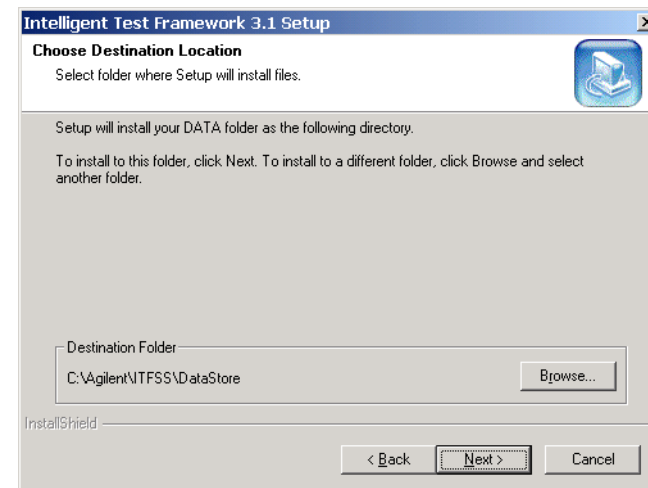
**Figure 2-6** Enter destination folder for ITF



- 6 To accept the default destination, click **Next**. Otherwise, enter the desired destination and click **Next**.

The **Choose Destination Location** dialog box for the data store appears. The default directory is E:\Agilent\ITFSS\DataStore. If the E:\ drive is not available, the default directory will be C:\Agilent\ITFSS\DataStore.

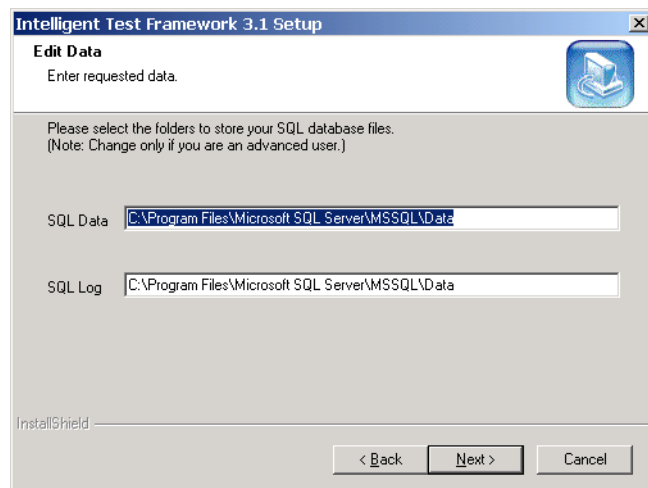
**Figure 2-7** Enter destination location for data folder



- 7 To accept the default directory, click **Next**. Otherwise, enter the desired directory and click **Next**.

The **Edit Data** dialog box appears.

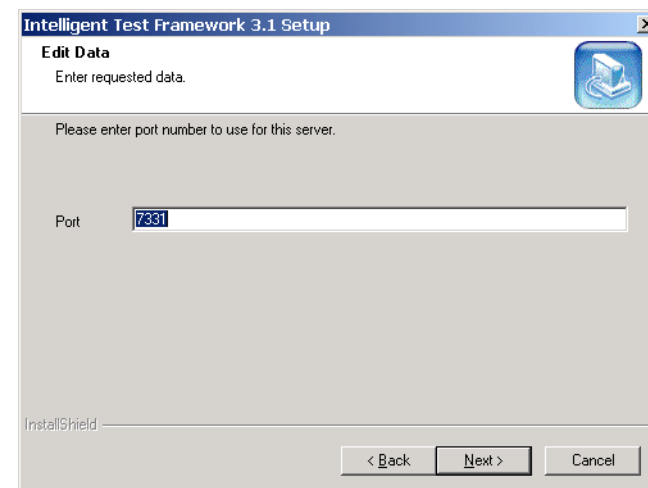
**Figure 2-8** Enter folder location for SQL database files



- 8 To accept the default locations, click **Next**.  
Otherwise, enter the desired locations and click **Next**.

The **Edit Data** dialog box for entering the port number appears.

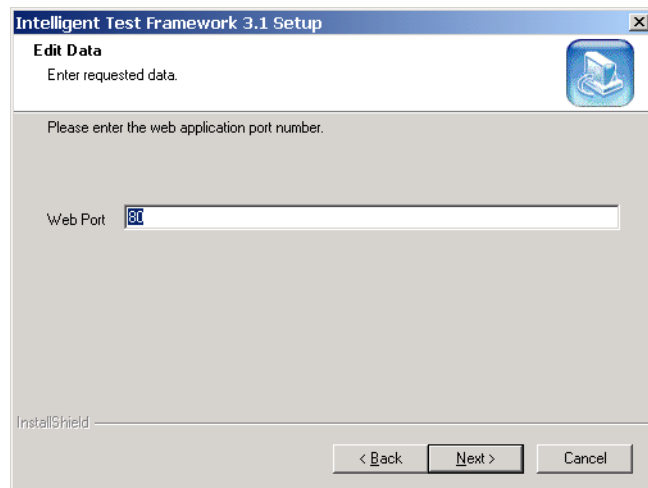
**Figure 2-9** Enter port number for ITF Server



- 9 To accept the default server port number of 7331, click **Next**. Otherwise, enter the server port number and click **Next**.

The **Edit Data** dialog box for entering the port number for the web application appears.

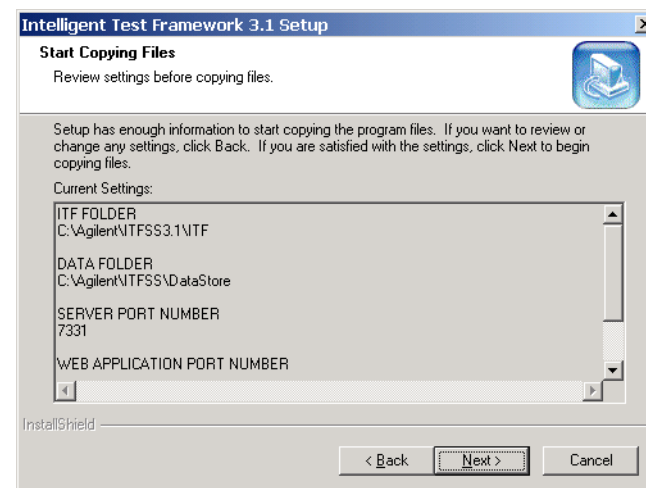
**Figure 2-10** Enter port number for web application



**10** Enter the port number for the web application, ITF Administration System, and then click **Next**.

The **Start Copying Files** dialog box appears for you to review the installation settings.

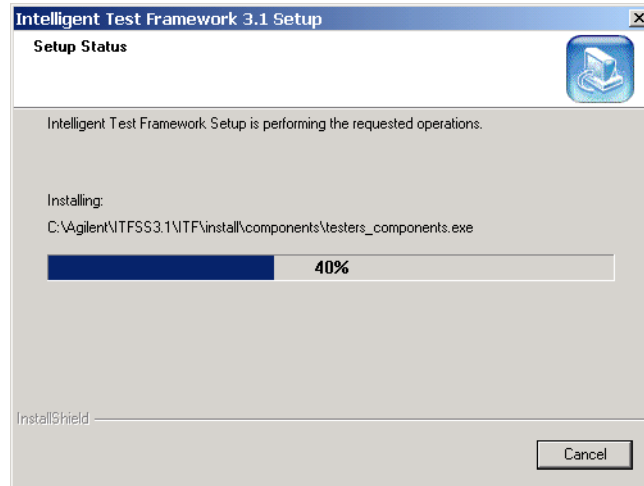
**Figure 2-11** Review installation settings



**11** Click **Next**.

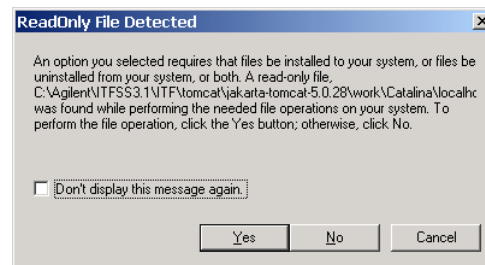
The **Setup Status** dialog box appears, displaying the progress of the installation.

**Figure 2-12** Setup Status dialog box



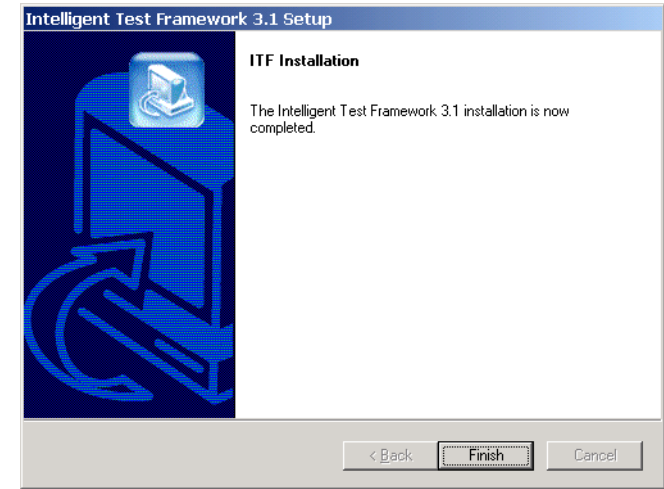
If a read-only file is detected during the installation, select the **Don't display this message again** check box and then click **Yes**.

**Figure 2-13** Read-only file detected



When the installation is completed, the **Setup Complete** dialog box appears.

**Figure 2-14** Setup Complete



**12** Click **Finish**.

Proceed to **Chapter 3, Phase II: Migrating Software Licenses and Board Test Data** for instructions on how to migrate your software licenses for the ART and AQT application clients.

# Phase II: Migrating Software Licenses and Board Test Data

## Overview

This chapter contains instructions on the following tasks:

- [Re-activating the ART and AQT Software Licenses](#), 3-2
- [Migrating Data](#), 3-4

### ADVICE

Before you start the migration, ensure that [Phase I: Installing ITF 3.1](#) has been completed.

---

## Re-activating the ART and AQT Software Licenses

- 1 Run the Administration System on the ITF Server.
- 2 Log in to the Administration System.
- 3 Click **Framework > Licenses** on the main menu.
- 4 Click **Setup** followed by **ART/AQT**. The **Set Up Licenses** page appears.

Figure 3-1 Set Up ART/AQT Client Licenses

### Set Up Licenses

For more detailed information, see the *Set Up Licenses* section of the online help.

1. [Print](#) or write down the ITF Server Information

<b>Hostname</b>	mtss-svr5
<b>MAC Address</b>	0008025547f9

2. Complete the steps below to retrieve the software license file.

- a. From a machine with Internet access, Go to the Agilent Licensing website at <http://www.agilent.com/find/softwarelicense>
- b. Enter the MAC address and product serial number of the ITF Software\*, when prompted.
- c. Retrieve the email with the license file.
- d. Save the file to a temporary location.
- e. Note the file name and directory.

3. Enter the license file path:

\* The product serial number of the ITF Software is found at the back of the installation CD envelope.

- 5 Enter the location of the license file on the ITF Server in the **Enter the license file path** text box. You can also browse to the path using the **Browse** button.
  - 6 Click **Next >**.
- The system activates the file and the ITF License Information table is automatically populated to reflect your new license.



- 7 Compare the new licenses listed in the ITF License Information table with those listed on your Entitlement Certificate. They should match. If they are not the same, an error may have occurred during the licensing process. Please contact your local Agilent representative or the Agilent Customer Support Center at 1-800-447-TEST (U.S. only).

#### NOTE

If you have lost your original copy of the license file, you can retrieve a backup copy at

```
C:\Program Files\Agilent Technologies\  
Intelligent Test Framework\Licenses.
```

---

## Migrating Data

Data migration consists of the following phases:

- Going through the pre-migration checklist.
- Migrating data to another physical server (optional).
- Migrating board test data.
- Understanding the migration log file.

### Pre-Migration Checklist

Before you perform data migration, ensure that the following conditions have been met:

- ITF 3.1 must be up and running.
- The E:\DataStore root directory must contain the three directories, BoardTest, GenCAM and Image and their contents.
- The ITF 3.0 database must be up and running in ITF 3.1. To do this:
  - 1) Stop the MSSQL service.
  - 2) Copy the files, ITF3\_Data.MDF and ITF3\_Log.LDF, to the directory, E:\Program Files\Microsoft SQL Server\MSSQL\Data.
  - 3) Restart the MSSQL service.

- The amount of free hard disk space required is calculated as follows:
  - If both the Datastore and SQL directories are on the *same* partition, for example, Drive E:, then the hard disk space required is
$$2 * \text{size of ITF3\_Data.MDF} + 10\% * \text{size of Datastore Directory}$$
  - If the DataStore directory for ITF 3.1 and the SQL directory are to be installed on *different* partitions, for example, the DataStore directory on Drive C: and the SQL directory on Drive E:, then the recommended hard disk space required is
$$110\% * \text{size of the E:\DataStore (ITFSS 3.0) for the Datastore directory and}$$
$$2 * \text{size of the ITF3\_Data.MDF for the SQL directory.}$$

## Migrating Data to Another Physical Server (Optional)

### 1 Move the DataStore directory

If you are migrating data from a physical server to another, you need to copy the `E:\DataStore` from the old server to the new server. You may do this via the network connection or by using external storage media.

If you wish to migrate data that has been previously archived on external storage media, copy the data from the media to `E:\DataStore` on the new server.

### 2 Move the ITF database files

Next, assuming that the ITF database files have not been archived before, copy the old ITF database files, `ITF3_Data.MDF` and `ITF3_Log.LDF`, in `E:\Program Files\Microsoft SQL Server\MSSQL\Data` on the old server to the MSSQL database folder on the new server. The default location is `C:\Program Files\Microsoft SQL Server\MSSQL\Data`.

### 3 Attach the ITF database files to the SQL server

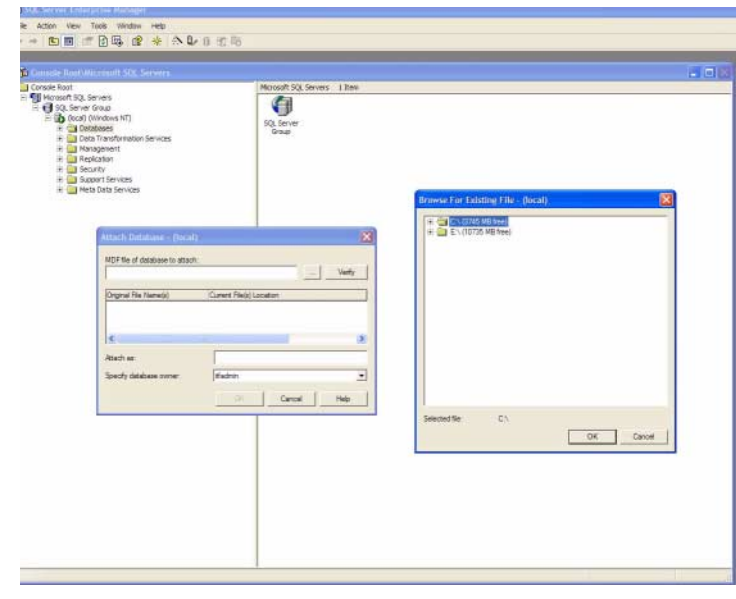
- a Open up SQL Server Enterprise Manager.
- b Expand the directories – **Console Root\Microsoft SQL Servers\ SQL Server Group\ (local) (Windows NT)**.
- c Right-click **Databases** and select **All Tasks > Attach Database** on the menu that appears.

The **Attach Database** dialog box appears.

- d Click the “...” button.

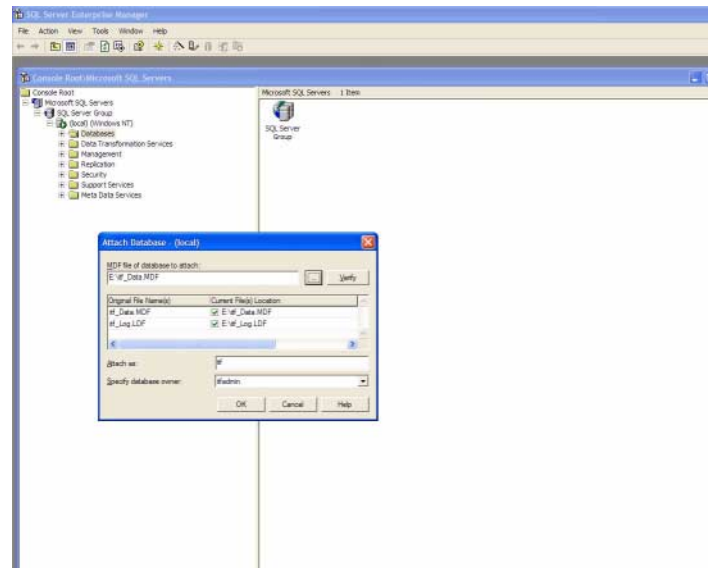
The **Browse For Existing File** dialog box appears.

**Figure 3-2** Browse For Existing File dialog box



- e Locate the MDF file of the database to be attached and click **OK**.
- f In the **Attach as** text box, enter the name of the database to be attached.

Figure 3-3 Attach as text box

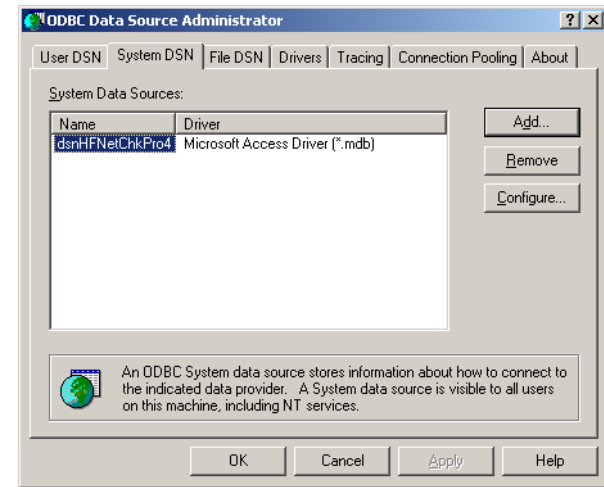


- g In the **Specify database owner** drop-down list, select the owner for this attached database.
- h Click **OK**.
- i To verify the database has been attached, expand the directory, **Databases**.  
  
The database you have just attached should appear in the list.

#### 4 Adding ODBC Data Source

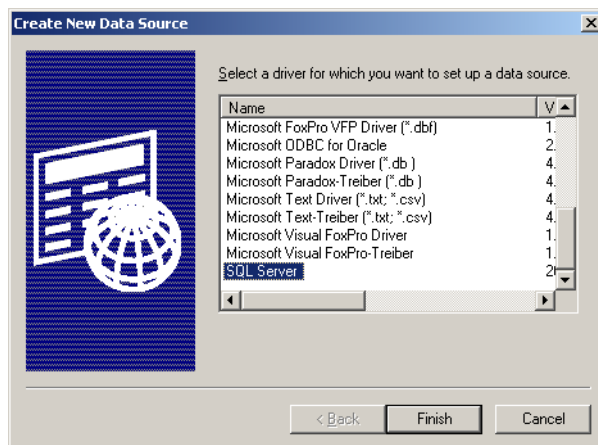
- a Click **Start > Programs > Administrative Tools > Data Sources (ODBC)**.

Figure 3-4 Data source(ODBC) dialog box



- b Click the **System DSN** tab.
- c Click **Add**.

Figure 3-5 ODBC Data source - SQL Server

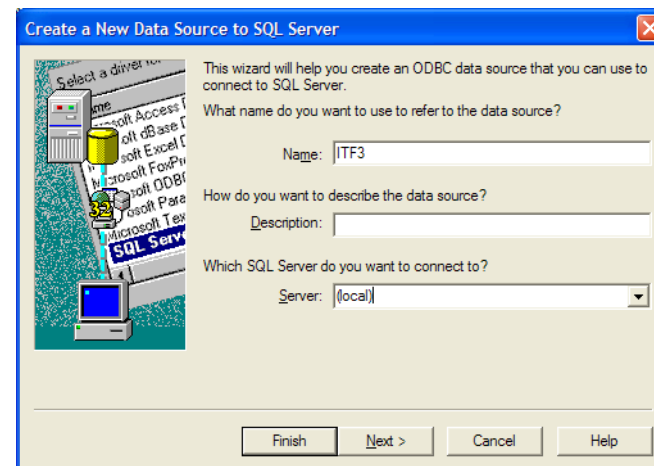


d Browse and select **SQL Server** using the **Creating a New Data Source** dialog box.

Then click **Finish**.

e A dialog box similar to **Figure 3-6** appears.

Figure 3-6 ODBC Data Source - SQL Server Details



f Enter the following details:

**Name:** ITF3

**Description:** <leave blank>

**Server:** <Computer Name>

g Click **Next >**

h Click **OK**.

Click **OK** again to complete the setup.

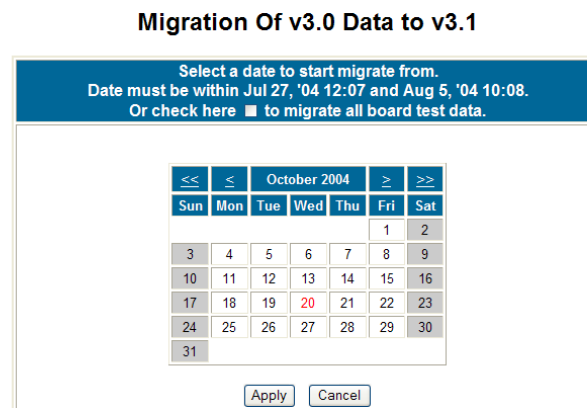
## Migrating Board Test Data

To migrate all board test data:

- 1 Run the Administration System on the ITF Server.
- 2 Login to the Administration System.
- 3 Click **Resource > Migration**.

A calendar similar to **Figure 3-7** appears.

**Figure 3-7** Data Migration dialog box



### Job Summary

Index	Delete	Status	Date From	Date To	% Done
No Migration Job scheduled.					

- 4 To migrate all board test data, select the **To migrate all board test data** check box and then click **Apply**.

The job is then scheduled and a new job will appear under **Job Summary**.

## NOTE

This procedure is only applicable to AXI and AOI data.

All data must be migrated before the ITF Server can be used.

During the first migration of board test data, information related to the administrator and user accounts for the Administration System, ART, and AQT will also be migrated.

### Job Summary Status

The following is a list of possible statuses for the job summary:

- Completed - This means all the board test data selected in the job has been migrated.
- Pending - This means the job is waiting to start.
- Processing - This indicates that the job is currently being processed.
- Queuing - This means the job is still waiting to be started.

## Understanding the Migration Log File

The following is an example of the log details that could be found in the Migration Log and their event descriptions.

**Table 3-1** Migration log details and their event descriptions

Log Details	Event Description
07-Dec-2004 15:04:25,357 WARN New Job to execute: DateFrom = 2002-02-11 00:00:00.007 and DateTo = 2003-04-24 08:17:24.0	The ITF Server has started to process a new job.
07-Dec-2004 15:04:25,547 WARN Migration of the defect type list started.	The ITF Server has migrated the list of defect types.
07-Dec-2004 15:04:31,714 WARN Migration of the defect type list completed.	
07-Dec-2004 15:04:31,714 WARN Migration of the repair action type list started.	The ITF Server has migrated the list of repair action types.
07-Dec-2004 15:04:32,294 WARN Migration of the repair action type list completed.	
07-Dec-2004 15:04:32,294 WARN Migration of the user role list started.	The ITF Server has migrated the list of user roles.
07-Dec-2004 15:04:32,354 WARN Migration of the user role list completed.	
07-Dec-2004 15:04:32,354 WARN Migration of the user list started.	The ITF Server has migrated the list of users.
07-Dec-2004 15:04:32,514 WARN Migration of the user list completed.	



**Table 3-1** Migration log details and their event descriptions

Log Details	Event Description
<pre>07-Dec-2004 15:04:33,703  WARN  Stage is AXI. Migrating now. IpcItemProcessId = 9fa53971-1e66-4e5a-aad7-932a98d352e6, Assembly Revision = HANBIT-BLIA_11(ASS'Y), Board Revision = 1_-442073740_185046_1358158198, BoardType = PRIMARY</pre>	<p>The ITF Server has migrated an AXI board.</p>
<pre>07-Dec-2004 15:42:49,153  WARN TestStepFrameContainer serialized file not found. tst file is E:\DataStore\BoardTest\91987ffd-5c87-49a2-b7c2-51452 a413526\btstore28872.tst. IpcItemProcessId = 9fa53971-1e66-4e5a-aad7-932a98d352e6</pre>	<p>The ITF Server is unable to find the .tst file that is required for migrating the board.</p> <p>There are two possible cases where this can happen:</p>
<pre>07-Dec-2004 15:44:39,297  WARN  Job is completed. Job's startDateTime is 2002-02-11 00:00:00.264  Failed to migration board/panel. IpcItemProcessId = 9fa53971-1e66-4e5a-aad7-932a98d352e6  Finished migrating board/panel. IpcItemProcessId = 9fa53971-1e66-4e5a-aad7-932a98d352e6</pre>	<ul style="list-style-type: none"> <li>• The system has already migrated the board and it is trying to migrate the same board again. To verify this, do a search on <code>ipcItemProcessId</code> and check whether you can find the message, "Finished migrating board/panel. IpcItemProcessId = &lt;the current ipcItemProcessId&gt;".</li> <li>• The file is not available. It could have been deleted by LME previously.</li> </ul>

# 4

## Phase III: Cleaning Up the ITF Server (Optional)

### Overview

This chapter contains instructions on how to clean up the ITF Server.

#### ADVICE

Before you clean up the ITF Server, ensure that **Phase II: Migrating Software Licenses and Board Test Data** has already been completed.

---

## Cleaning Up the ITF Server

- 1 Download the `cleanup.bat` script from Agilent Support Website.
- 2 Copy the script into a floppy disk. You will need this later.

### NOTE

It is assumed that the ITF Server does not have Internet access.

- 3 Log on to the ITF Server with administrative privileges.
- 4 Detach the ITF database files from the SQL server
  - a Open up SQL Server Enterprise Manager.
  - b In the console tree, select **Console Root > Microsoft SQL Servers > SQL Server Group > (local) (Windows NT)**.
  - c Right-click **ITF3** and select **All Tasks > Detach Database** on the menu that appears.
  - d Click OK.
- 5 Insert the floppy disk and copy the file to the ITF Server.

- 6 Double-click `cleanup.bat` to run it.

Alternatively, you can choose to delete the following directories and shortcuts manually if you do not wish to download the script.

- a `C:\Program Files\InstallShield Installation Information\{42c2b048-0912-11d6-89c4-0010b50888ac}`
  - b `C:\Program Files\Agilent Technologies\Intelligent Test Framework`
  - c `C:\Program Files\Agilent Technologies\InstallCheck`
  - d `C:\Program Files\Agilent Technologies\MfgTestCommon`
  - e `E:\DataStore`
  - f `E:\IPCAdapters`
  - g `E:\Program Files\Microsoft SQL Server\MSSQL\Data\ITF\ITF3_Data.MDF`
  - h `E:\Program Files\Microsoft SQL Server\MSSQL\Data\ITF\ITF3_Log.LDF`
  - i The **ITF Software Solutions** shortcut in the **Start > Programs** folder.
  - j The **ITF Administration** shortcut in the **Start > Programs** folder.
- 7 Click **Start > Run**. Type `regedit` and press **Enter**.

**8** Delete the following registry keys:

**a** \HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\  
Windows\CurrentVersion\Uninstall\  
{42c2b048-0912-11d6-89c4-0010b50888ac}

**b** \HKEY\_LOCAL\_MACHINE\SOFTWARE\  
Agilent Technologies, Inc.\  
Intelligent Test Framework\3.0

The ITF Server clean-up is completed.

## Overview

This chapter contains instructions on the following tasks:

- [Upgrading ART Client, 5-2](#)
- [Upgrading AQT Client, 5-8](#)

Before you proceed, ensure that the following pre-upgrade requirements are met.

### Pre-Upgrade Requirements

- [Phase I: Installing ITF 3.1](#) has been completed.
- The Client PC to be upgraded is currently installed with ART 3.0 or AQT 1.0 regardless of any patches.
- The Client PC to be upgraded with ART 3.1 has at least 195 MB of free hard disk space.
- The AQT Client to be upgraded with AQT 1.1 has at least 180 MB of free hard disk space.

## Upgrading ART Client

The process of upgrading the AQT Client consists of the following parts:

- **Part 1: Uninstalling ART 3.0**
- **Part 2: Installing ART 3.1**
- **Part 3: Configuring ART 3.1**

### Part 1: Uninstalling ART 3.0

To uninstall ART 3.0:

- 1 Go to the Windows Control Panel.
- 2 Double-click **Add/Remove Programs**.
- 3 Select **Agilent Repair Tool** from the list and click **Remove**.
- 4 Browse the ART 3.0 folders to remove any other files and folders that were not removed by the **Add/Remove Programs Wizard**, i.e. `C:\Program Files\Agilent Technologies\RepairStation.`

### Part 2: Installing ART 3.1

- 1 If you are installing ART on a Client PC, log on with Administrator privileges.  
  
If you are installing AQT on a Single-Tester ITF Server, log on with Administrator privileges and then skip to Step 6.
- 2 Open Windows® Explorer.
- 3 On the **Tools** menu, click **Map Network Drive**.

- 4 Map to the ITF Server from the Client PC.
  - a Select any available drive in the **Drive** text box.
  - b Enter the folder (Windows 2000/Windows XP):  
`\\<System Name of ITF Server>\install`
  - c If you do not want this drive to reconnect at logon, clear the **Reconnect at Logon** check box.
  - d Click **Finish** for Windows® 2000/Windows XP.

#### NOTE

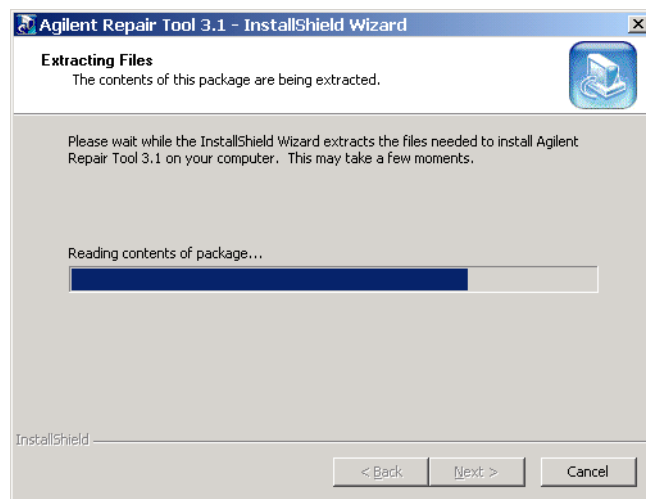
It may be necessary to provide the ITF Server's Administrator login name and password to complete the mapping to a network drive.

- 5 If you are installing the ART on the Single-Tester ITF Server, you must change the licensing mode for the SQL Server. To change the licensing mode,
  - a Click **Start > Settings > Control Panel**.
  - b Double-click **SQL Server 2000 Licensing Setup**.
  - c In the **Choose Licensing Mode** dialog box, change the number of devices in the **Licensing Mode** box to **2**.
  - d Click **Continue**.
- 6 Locate the `applications` directory on the ITF Server.

- 7 Double-click the `agilent_repair_tool_3_1.exe` file. This is a self-extracting file that opens automatically to the `temp` directory and begins the installation of ART on the Client PC.

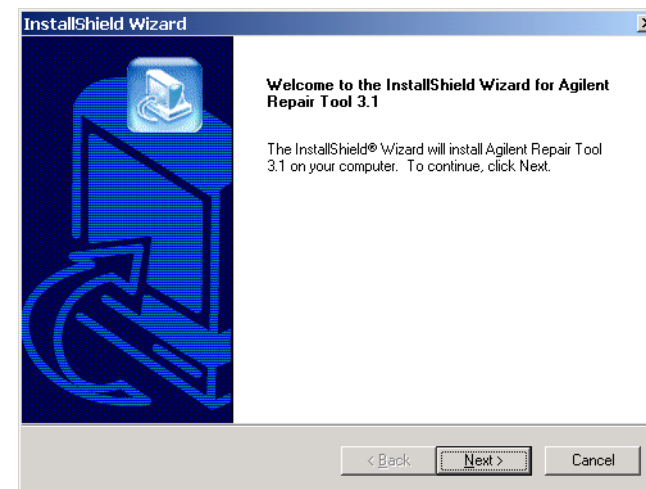
The setup program starts extracting files.

**Figure 5-1** Extracting Files dialog box



After the files are extracted, the **Welcome** dialog box appears.

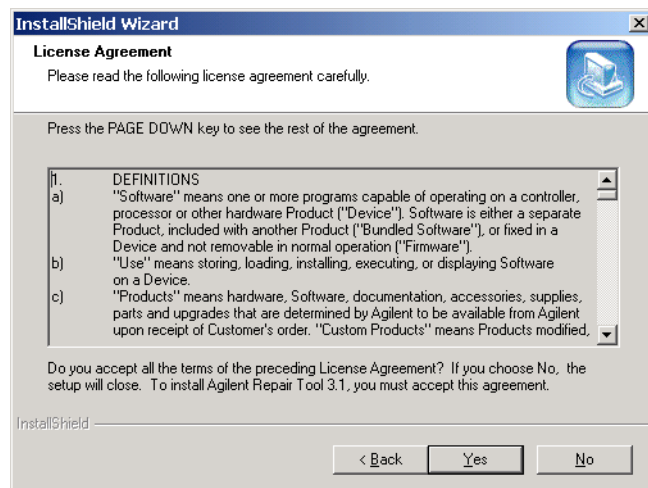
**Figure 5-2** Welcome dialog box



8 Click **Next**.

The **License Agreement** dialog box appears.

**Figure 5-3** License Agreement dialog box

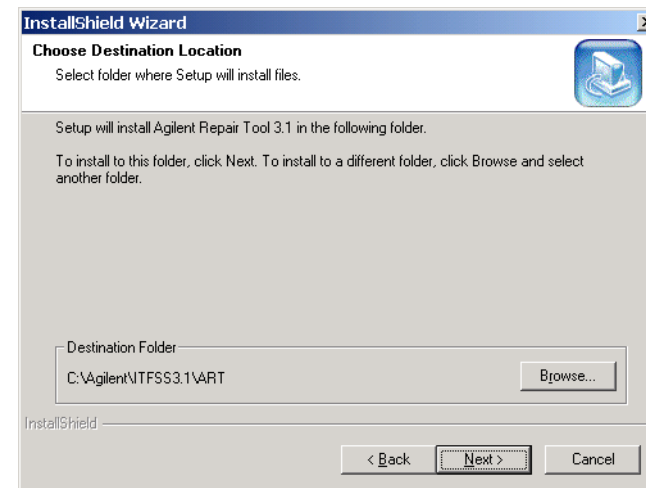


9 Read the Agilent License Agreement, and then click **Yes** to accept it.

10 Read the Release Notes, and then click **Next**.

The **Choose Destination Location** dialog box appears.

**Figure 5-4** Enter destination location for ART



The **Choose Destination Location** dialog box appears.

The default directory is

C:\Agilent\ITFSS3.1\ART\.

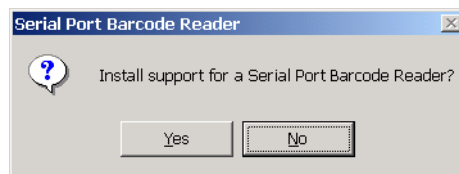
11 To accept the default destination, click **Next**.

Otherwise, enter the desired destination and click **Next**.



The **Serial Port Barcode Reader** dialog box appears.

**Figure 5-5** Serial Port Barcode Reader dialog box



**12** If you will be using an RS232 (serial port) barcode reader with ART, click **Yes**. Otherwise, click **No**.

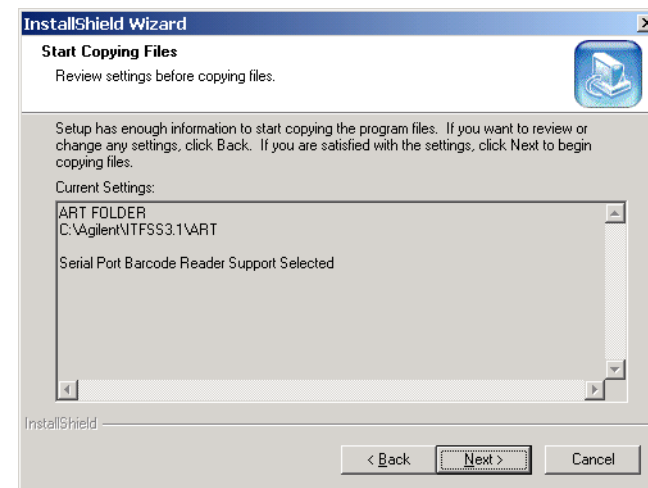
**CAUTION**



If you select **No**, you will have to re-install the ART software later should you wish to use the RS232 barcode reader with ART.

The **Start Copying Files** dialog box appears for you to review the installation settings.

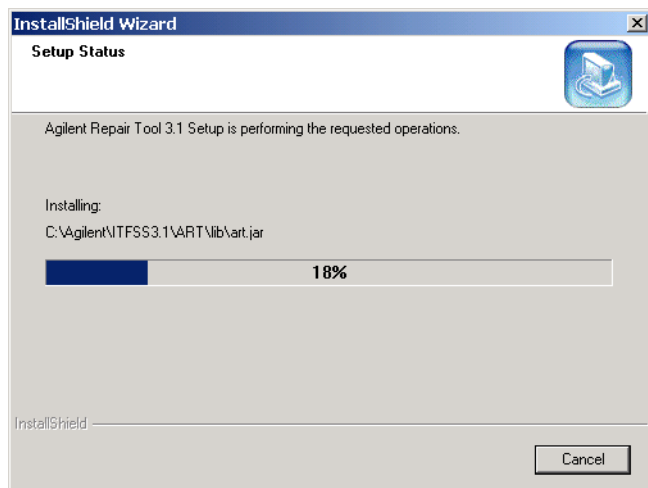
**Figure 5-6** Start Copying Files dialog box



**13** Click **Next**.

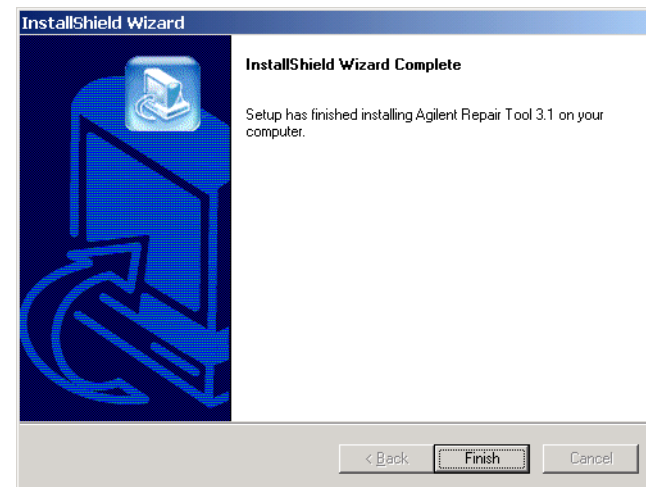
The **Setup Status** dialog box appears, displaying the progress of the installation.

**Figure 5-7** Setup Status dialog box



When the installation is completed, the **Setup Complete** dialog box appears.

**Figure 5-8** Setup Complete



**14** Click **Finish**.

The installation of the Agilent Repair Tool software on the Client PC is completed.

### Part 3: Configuring ART 3.1

You need to specify the data source before you can use ART.

To specify the data source:

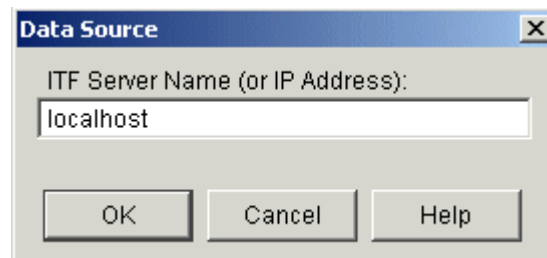
- 1 Open ART by double-clicking the **Agilent Repair Tool** desktop icon.

**Figure 5-9** Agilent Repair Tool icon



- 2 Click **Cancel** when the **Login User** dialog box appears.
- 3 On the **Tools** menu, click **Data Source**.  
The **Data Source** dialog box appears.

**Figure 5-10** Data Source dialog box



- 4 Enter the name or IP address of the ITF Server and then click **OK**.

#### NOTE

If you change the IP address of your ITF Server in future, you need to redefine the data source using steps 3 through 4 above.

- 5 To verify that the Client PC has successfully connected to the ITF Server, click **Login**.

The list of user names that have been set up on the ITF Server should be displayed. If so, then the Client PC is connected to the ITF Server.

If the list of user names is not displayed, check the configuration steps again and/or consult your System Administrator.

#### NOTE

Refer to Chapter 5, **Setting Up Permissions and Logins** of the *ITF Software Solutions Setup Guide*, for information on setting up user names, passwords, and permissions.

## Upgrading AQT Client

The process of upgrading the AQT Client consists of the following parts:

- **Part 1: Migrating User Files (Optional)**
- **Part 2: Uninstalling AQT 1.0**
- **Part 3: Installing AQT 1.1**
- **Part 4: Configuring AQT 1.1**

### Part 1: Migrating User Files (Optional)

- 1 Move or copy the following folders to a temporary directory, e.g., C:\Temp\Datafiles from C:\Program Files\Agilent Technologies\Intelligent Test Framework\Quality\DataFiles.
  - Charts
  - Images Temp
  - Spreadsheets
  - AlarmLogs
  - Views\AOI
  - Views\AXI
- 2 Rename the AOI folder within the Views folder to AOI\_SJ.

#### NOTE

Make sure you are able to access this temporary directory after installing AQT 1.1.

### Part 2: Uninstalling AQT 1.0

- 1 Go to the Windows® Control Panel.
- 2 Double-click **Add/Remove Programs**.
- 3 Select **Agilent Quality Tool** from the list and click **Remove**.
- 4 Browse the AQT 1.0 folders to remove any other files that were not removed by the **Add/Remove Programs Wizard**, i.e.,  
C:\Program Files\Agilent Technologies\Intelligent Test Framework\Quality

### Part 3: Installing AQT 1.1

Before you install the Agilent Quality Tool software on the Client PC or Single-Tester ITF Server, please verify that the assumptions have been met.

#### NOTE

The following installation procedure must be completed for each Client PC you wish to connect to the Intelligent Test Framework.

Please accept *all default* installation options rather than performing a custom installation.

**NOTE**

Prior to installing the Agilent Quality Tool, check to see that the Date/Time and time zone settings on the ITF Server match the Date/Time and time zone settings on your test systems and Client PCs. All machines attached to the Intelligent Test Framework must have the same Date/Time and time zone settings. Be sure to restart the ITF Server or Client PC after changing the time setting.

To install the Agilent Quality Tool:

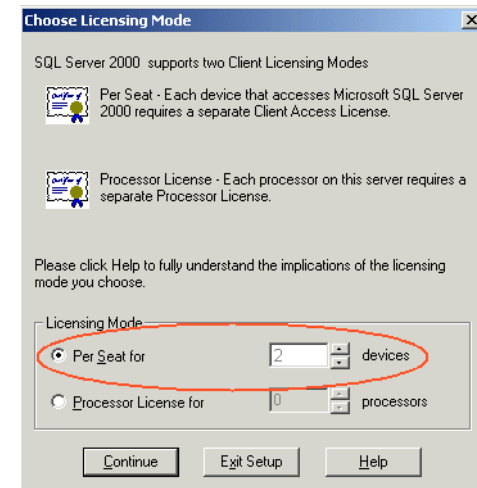
- 1 If you are installing AQT on a Client PC, log on with Administrator privileges.  
If you are installing AQT on a Single-Tester ITF Server, log on with Administrator privileges and then skip to step 6.
- 2 Open Windows® Explorer.
- 3 On the **Tools** menu, click **Map Network Drive**.
- 4 Map to the ITF Server from the Client PC.
  - a Select any available drive in the **Drive** text box.
  - b Enter the folder (Windows 2000/Windows XP):  
`\\<System Name of ITF Server>\install`
  - c If you do not want this drive to reconnect at logon, clear the **Reconnect at Logon** box.
  - d Click **Finish** for Windows® 2000/Windows XP.

**NOTE**

It may be necessary to provide the ITF Server's Administrator login name and password to complete the mapping to a network drive.

- 5 If you are installing the Agilent Quality Tool on the Single-Tester ITF Server, you must change the licensing mode for the SQL Server. To change the licensing mode,
  - a Click **Start > Settings > Control Panel**.
  - b Double-click **SQL Server 2000 Licensing Setup**.  
The **Choose Licensing Mode** dialog box appears.

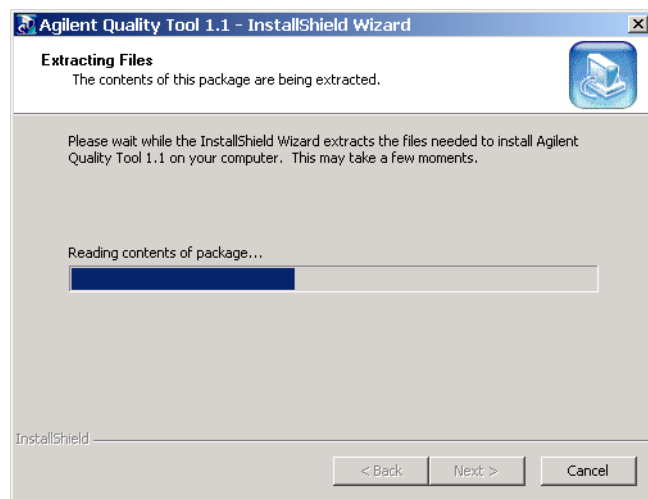
**Figure 5-11** Choose Licensing Mode dialog box



- c In the **Choose Licensing Mode** dialog box, change the number of devices in the **Licensing Mode** box to **2**.
  - d Click **Continue**.
- 6 Locate the `applications` directory on the ITF Server.
- 7 Double-click the `agilent_quality_tool_1_1.exe` file. This is a self-extracting file that automatically opens to the `temp` directory and begins the installation of the Agilent Quality Tool on the Client PC or Single-Tester ITF Server.

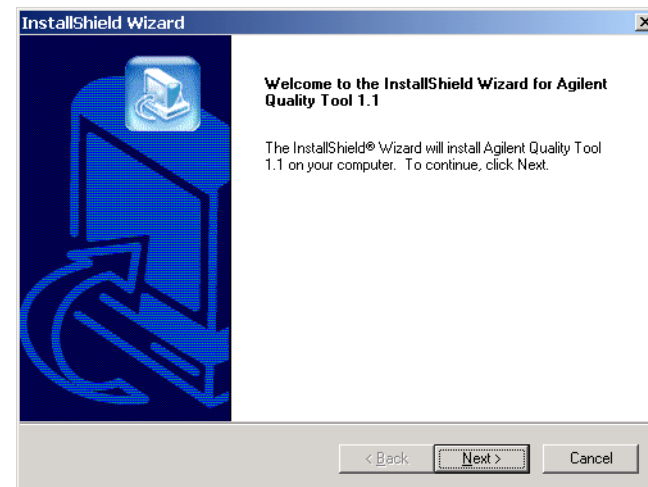
The setup program starts extracting files.

Figure 5-12 Extracting Files dialog box



After the files are extracted, the **Welcome** dialog box appears.

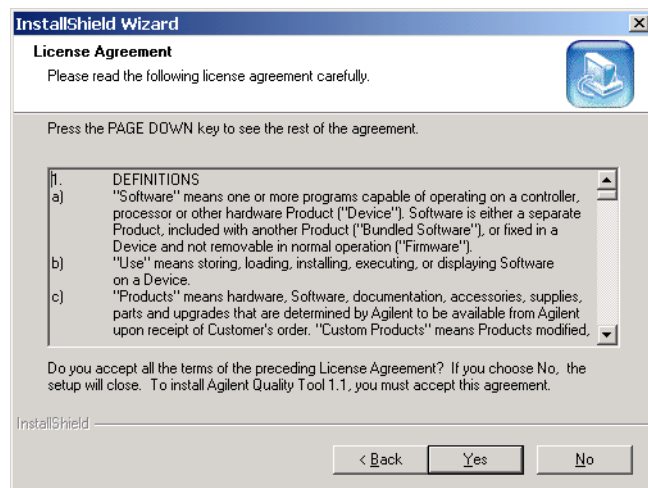
Figure 5-13 Welcome dialog box



8 Click **Next**.

The **License Agreement** dialog box appears.

**Figure 5-14** License Agreement dialog box



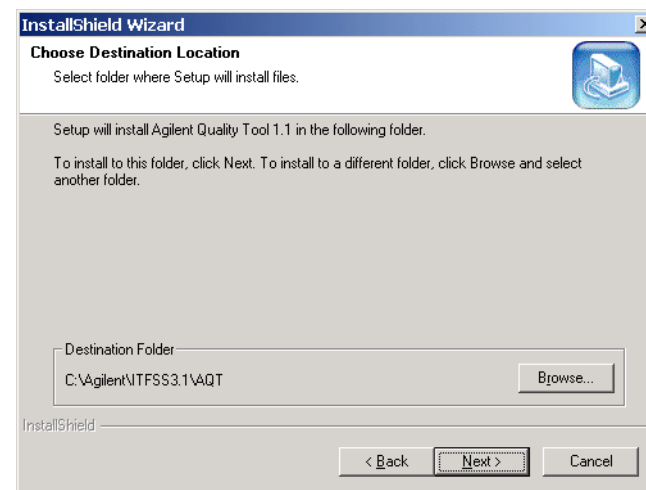
9 Read the Agilent License Agreement, and then click **Yes** to accept it.

The **Release Notes** dialog box appears.

10 Read the Release Notes, and then click **Next**.

The **Choose Destination Location** dialog box appears.

**Figure 5-15** Enter destination location for AQT



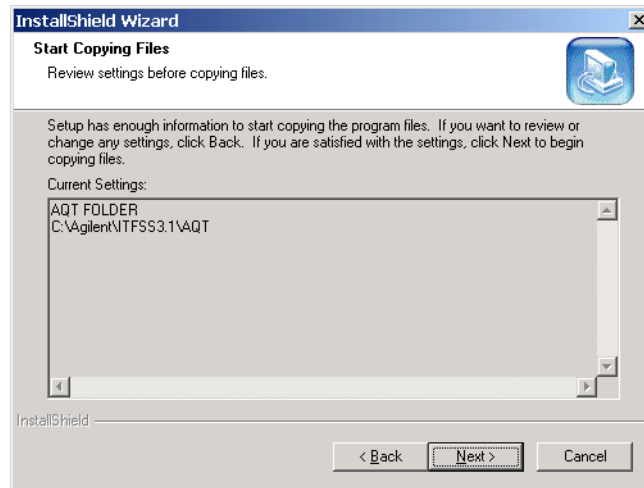
The **Choose Destination Location** dialog box appears.  
The default directory is

C:\Agilent\ITFSS3.1\AQT\.

11 To accept the default destination, click **Next**.  
Otherwise, enter the desired destination and click **Next**.

The **Start Copying Files** dialog box appears for you to review the installation settings.

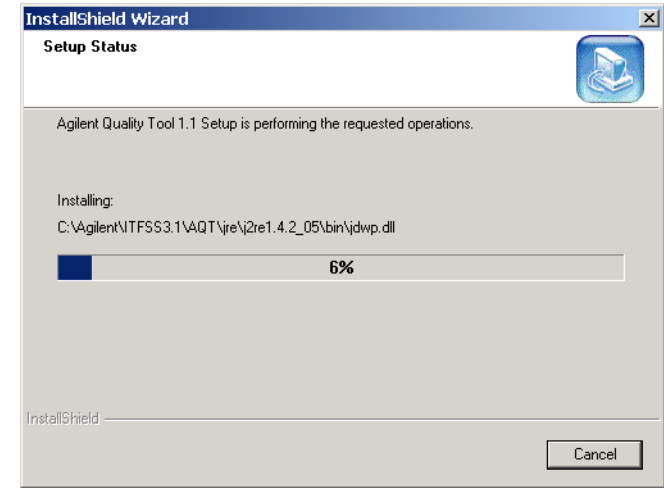
**Figure 5-16** Start Copying Files dialog box



**12** Click **Next**.

The **Setup Status** dialog box appears, displaying the progress of the installation.

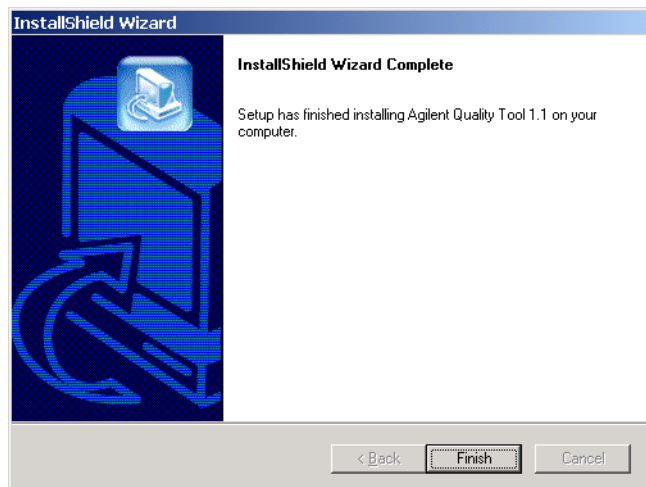
**Figure 5-17** Setup Status dialog box





When the installation is completed, the **Setup Complete** dialog box appears.

**Figure 5-18** Setup Complete dialog box



**13** Click **Finish**.

The installation of the Agilent Quality Tool software on the Client PC or Single-Tester ITF Server is completed.

## Part 4: Configuring AQT 1.1

You need to specify the location of the data source before you can use AQT.

To specify the location of the data source:

- 1 Open the Agilent Quality Tool software by double-clicking the **Agilent Quality Tool** desktop icon.

**Figure 5-19** Agilent Quality Tool icon

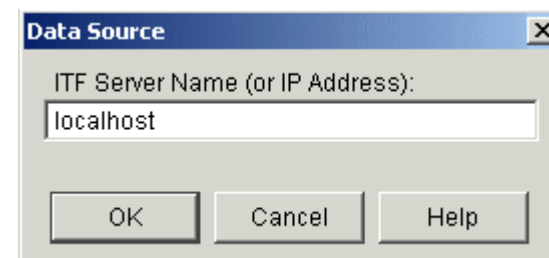


- 2 Click **Cancel** when the **Login User** dialog box appears.

- 3 On the **Tools** menu, click **Data Source**.

The **Data Source** dialog box appears.

**Figure 5-20** Data Source dialog box



- 4 Enter the name or IP address of the ITF Server and then click **OK**.

**NOTE**

If you change the IP address of your ITF Server in future, you need to redefine the data source using steps 3 through 4 above.

- 5 To verify that the Client PC has successfully connected to the ITF Server, click **Login**.

You should see the list of user names that have been set up on the ITF Server. If you can see the list of current user names, the Client PC is connected to the ITF Server.

If you cannot see the list of user names, recheck the configuration steps and/or check with your System Administrator.

**NOTE**

See Chapter 5, **Setting Permissions and Logins**, of the *ITF Software Solutions Setup Guide* for information on setting up user names, passwords, and permissions.

- 6 If you have performed **Part 1: Migrating User Files (Optional)**, move the files from the temp directory into <Installed AQT Location>\clients. The default location is

C:\Agilent\ITFSS3.1\AQT\clients.

The installation of the Agilent Quality Tool on the Client PC is completed.

Repeat the setup procedure for each Client PC and Agilent Quality Tool you wish to connect to the Intelligent Test Framework. Remember that the Single-Tester ITF Server can only connect to one Agilent Quality Tool.

## Overview

This chapter contains instructions on the following tasks.

- [Upgrading the Agilent AXI, 6-2](#)
- [Upgrading the Agilent AOI SP/SJ Series, 6-11](#)
- [Upgrading the Agilent ICT WN, 6-19](#)
- [Upgrading the Agilent ICT UX, 6-31](#)

Before you proceed, ensure that your tester is one of the following supported tester versions and that it meets the pre-upgrade requirements.

### Supported Tester Versions

- Agilent ICT UNIX with software version 04.00p or later
- Agilent ICT WN with software version 3070 04.00p WN or later
- Agilent AXI with software version 7.3 or later
- Agilent AOI SJ Series with software version 4.07 or later
- Agilent AOI SP Series with software version 2.0.0.7 or later

### Pre-Upgrade Requirements

- Belongs to one of the Supported Tester Versions.

- Currently installed with ITF 3.0 Components (ITF5dxComponents.exe, ITFSJComponents.exe, ITF3070WNComponents.exe etc.) with/without any patches.
- Has additional disk space of 130 MB.
- Phase 1 is completed.

### CAUTION



Whenever you change the time settings on the ITF Server, you must restart the system.

## Upgrading the Agilent AXI

For Agilent AXI, the steps for upgrading the tester are:

- **Part 1: Uninstall the ITF 5DX Components**
- **Part 2: Install ITF Tester Components**
- **Part 3: Configure AXI Tester Controller**

### Part 1: Uninstall the ITF 5DX Components

- 1 Go to the Windows Control Panel.
- 2 Double-click **Add/Remove Programs**.
- 3 Select **ITF 5DX Components** from the list and click **Remove**.

### Part 2: Install ITF Tester Components

To add the Intelligent Test Framework tester components to the Agilent AXI:

- 1 Log on to the Agilent AXI controller with Administrator privileges.
- 2 Check that TCP/IP is installed on the Agilent AXI controller.
- 3 If a board test is in progress, wait for the test to be completed, then close/stop the Auto Reporter on the Agilent AXI.
- 4 Open Windows® Explorer.
- 5 On the **Tools** menu, click **Map Network Drive**.

The **Map Network Drive** dialog box appears.

- 6 Map to the ITF Server from the Agilent AXI controller.

a In the Path text box, enter:

```
\\<System Name of ITF Server>\install
```

b Make sure you *clear* the the **Reconnect at Logon** check box.

c Click **OK**.

#### NOTE

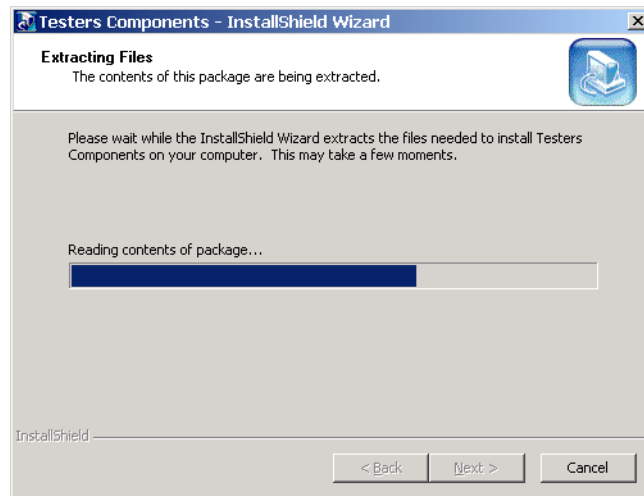
It may be necessary to provide the Agilent ITF Administrator login name and password to complete the mapping to a network drive.

- 7 Locate the `components` directory on the newly-mapped drive.

- 8 Double-click the `testers_components.exe` file. This is a self-extracting file that automatically opens to the `temp` directory and begins the installation process on the Agilent AXI controller.

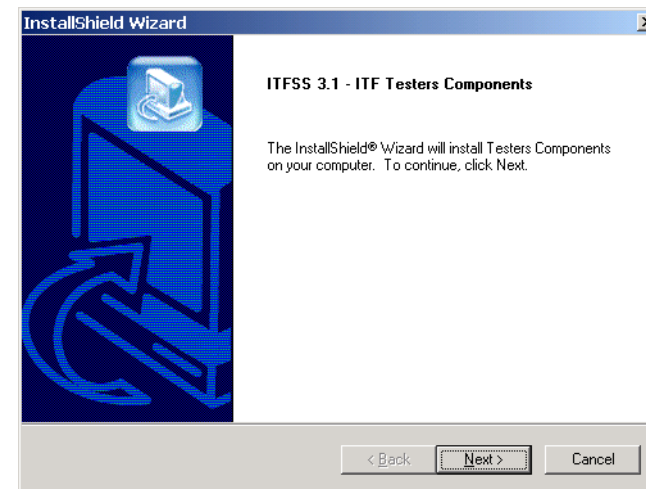
The setup program starts extracting files.

**Figure 6-1** Extracting files



After the files are extracted, the **Welcome** dialog box appears.

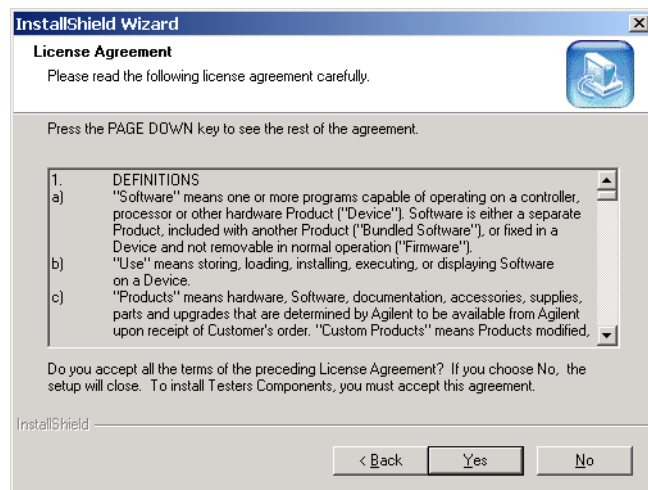
**Figure 6-2** Welcome dialog box



9 Click **Next**.

The **License Agreement** dialog box appears.

**Figure 6-3** License Agreement dialog box



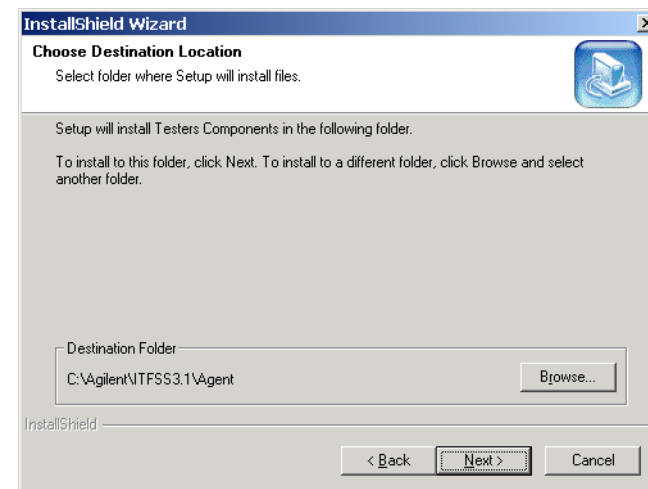
10 Read the Agilent License Agreement, and then click **Yes** to accept it.

The **Release Notes** dialog box appears.

11 Read the Release Notes, and then click **Next**.

The **Choose Destination Location** dialog box for ITF Agent appears. The default directory is C:\Agilent\ITFSS3.1\Agent\.

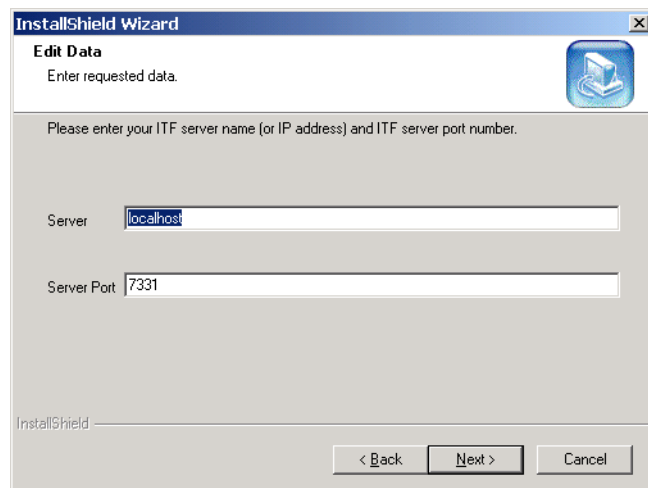
**Figure 6-4** Enter destination folder for ITF Agent



12 To accept the default directory, click **Next**. Otherwise, enter the desired directory and click **Next**.

The **Edit Data** dialog box appears.

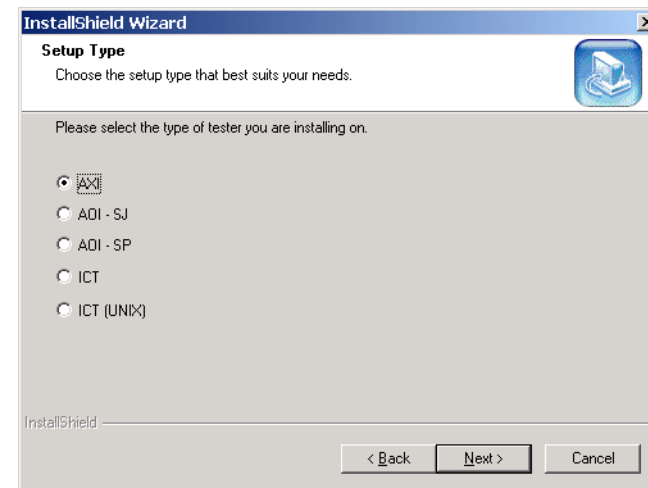
**Figure 6-5** Enter name and port number of ITF Server



**13** Enter the name and port number of the ITF Server, and then click **Next**.

The **Setup type** dialog box for selecting the tester type appears.

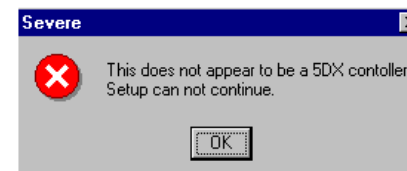
**Figure 6-6** Select tester type



**14** Click **AXI** and then click **Next**.

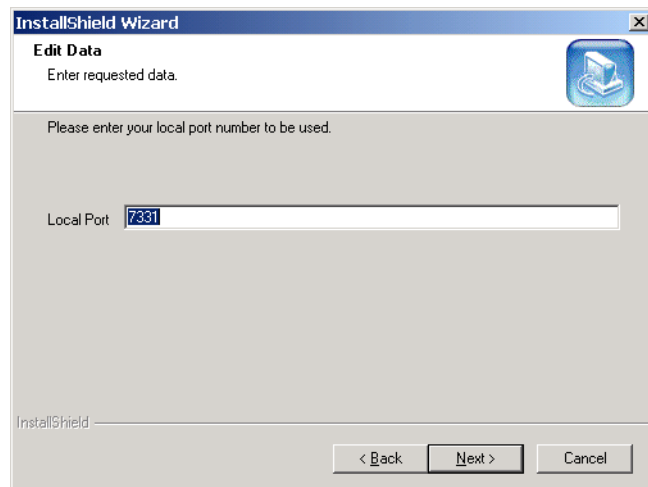
You will receive the following warning message, if you attempt to install the components on a system other than an Agilent AXI controller.

**Figure 6-7** Warning Message



The **Edit Data** dialog box appears for you to enter the local port number.

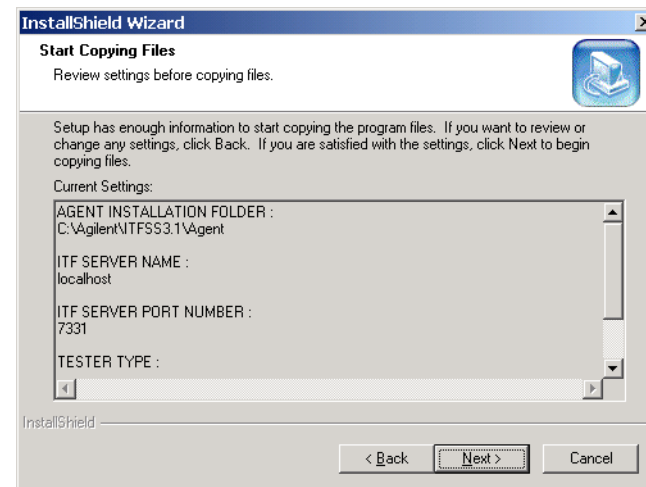
**Figure 6-8** Enter local port number



**15** Enter the local port number and then click **Next**.

The **Start Copying Files** dialog box appears for you to review the installation settings.

**Figure 6-9** Review installation settings

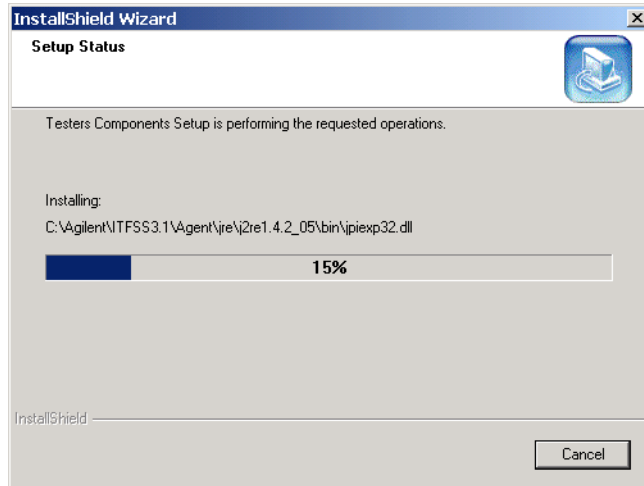


**16** Review the installation settings and then click **Next**.



The **Setup Status** dialog box appears, displaying the progress of the installation.

**Figure 6-10** Setup Status dialog box



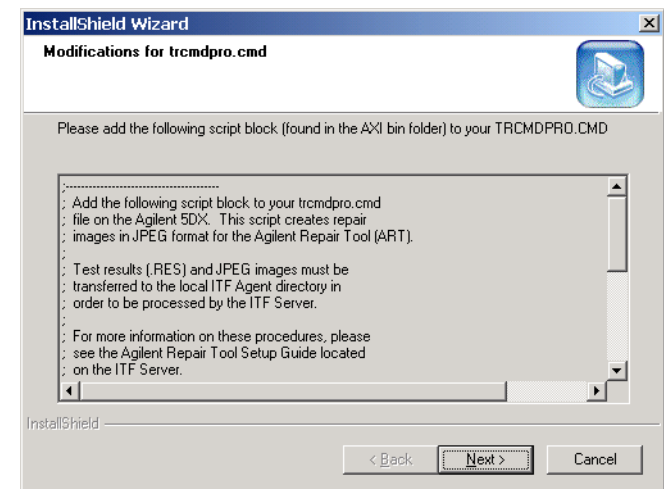
During the installation process, the **Modifications for trcmdpro.cmd** dialog box appears. It lists the changes that you need to make to the `trcmdpro.cmd` file on the Agilent AXI.

The text will be saved automatically into a file called `trcmdpro.txt` in the Agilent AXI `bin` directory.

Use this file as a reference when you modify the `trcmdpro.cmd` file later.

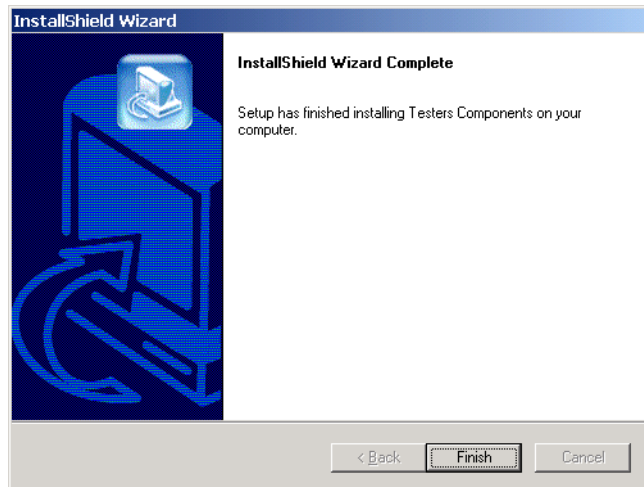
For more information regarding these modifications, please see [Modifications for trcmdpro.cmd](#) on page 6-7.

**Figure 6-11** Modifications for trcmdpro.cmd



When the installation is completed, the **Setup Complete** dialog box appears.

**Figure 6-12** Setup Complete



**17** Click **Finish**.

**18** Remove the drive mapping to the ITF Server (from [step 6](#)). In Windows Explorer, right-click the drive you just mapped and select **Disconnect**. Be sure not to display the contents of the mapped drive before disconnecting it.

The installation of the Intelligent Test Framework components to the Agilent AXI is completed.

## Part 3: Configure AXI Tester Controller

- 1 Open the file, `trcmdpro.txt`.

This file can be found in the bin folder of the install folder for Agilent 5DX.

```
BEGIN
  mkdir <INPUTDIR>\&TRNAME
  mkjpg <INPUTDIR>\&TRNAME $(RESROOT)\&TRNAME\*.tif
  copy $(RESROOT)\&TRNAME\*.plr <INPUTDIR>\&TRNAME
  trcp &TRFILE <INPUTDIR>
  cmd /cmove $(RESROOT)\&TRNAME.LOG <INPUTDIR>\&TRNAME.LOG
  cmd /c del /Q $(RESROOT)\&TRNAME\*. *
  rd $(RESROOT)\&TRNAME
END
```

### NOTE

The variable, `<INPUTDIR>`, represents the location of the input directory. The default value is

`C:\Agilent\ITFSS3.1\ITF\agent\storage\Input`.

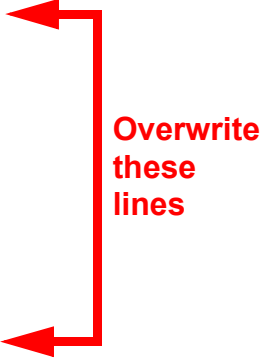
If you are not sure where the files, `trcmdpro.txt` and `trcmdpro.cmd`, are located, please refer to the documentation for AXI.

- 2 Open the file, `trcmdpro.cmd`.

- 3 Locate the section of code that is similar to the following:

**Figure 6-13** Code for Sending Log Files to the ITF Server and Deleting Log Files on the Agilent AXI

```
-----  
; To delete the panel results log files, use the commands in  
; the following example:  
  
BEGIN  
  mkdir Q:\RES\&TRNAME  
  mkjpg Q:\RES\&TRNAME $(RESROOT)\&TRNAME\*.tif  
  copy $(RESROOT)\&TRNAME\*.plr Q:\RES\&TRNAME  
  trcp &TRFILE Q:\RES  
  copy $(RESROOT)\&TRNAME.log Q:\RES\*.*  
  autorpt -t&TRFILE  
  cmd /c del /Q $(RESROOT)\&TRNAME\*.*  
  rd $(RESROOT)\&TRNAME  
  cmd /c del /Q $(RESROOT)\&TRNAME.LOG  
END
```



**Overwrite  
these  
lines**

- 4 Modify the file, `trcmdpro.cmd` by replacing the existing set of lines created for ITF 3.0 with the set in `trcmdpro.txt`.

- 5 Delete `mapdrive.bat`.

- For Windows NT4.0-based tester controllers, the file is located in `C:\WINNT\Profiles\All Users\Start Menu\Programs\Startup`.

- For Windows 2000-based or Windows XP-based tester controllers, the file is located in `C:\Documents and Settings\All Users\Start Menu\Programs\Startup`.

Repeat the setup and configuration procedure for each Agilent AXI you wish to connect to the Intelligent Test Framework.

## Upgrading the Agilent AOI SP/SJ Series

For Agilent AOI SP/SJ, the steps for upgrading the tester are:

- **Part 1: Uninstall the ITF SJ Components**
- **Part 2: Install ITF Tester Components**
- **Part 3: Configure the AOI Tester**

### Part 1: Uninstall the ITF SJ Components

#### CAUTION



Before uninstalling, double-click the file, `SJBoardSend.exe` in `C:\Agilent\ITF`. Record the settings for the **Transfer SSM images to ITF?** option and the **OK to delete images from SJ after transfer to ITF?** option. You will need this information later on.

- 1 Go to the Windows Control Panel.
- 2 Double-click **Add/Remove Programs**.
- 3 Select **ITF SJ Components** from the list and click **Remove**.

### Part 2: Install ITF Tester Components

- 1 Log on to the Agilent AOI controller with Administrator privileges.
- 2 Check that TCP/IP is installed on the Agilent AOI controller.

- 3 Open Windows® Explorer.
- 4 On the **Tools** menu, click **Map Network Drive**. The **Map Network Drive** dialog box appears.
- 5 Map to the ITF Server from the Agilent AOI controller.

a In the Folder text box, enter:

```
\\<Name of ITF Server>\install
```

- b Make sure that you *clear* the **Reconnect at Logon** check box.
- c Click **Finish**.

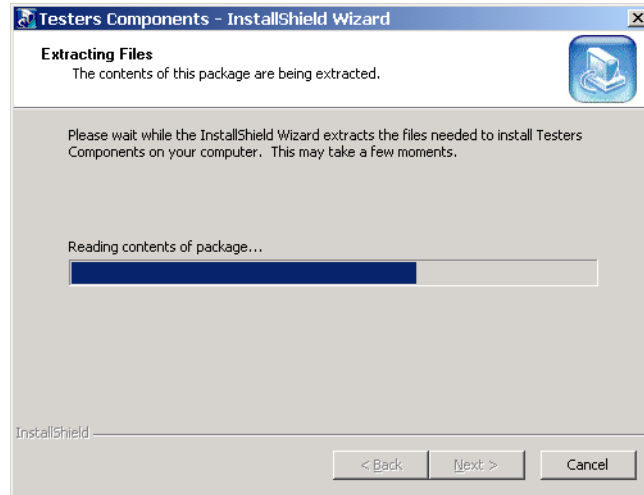
#### NOTE

It may be necessary to provide Agilent ITF Administrator login name and password to complete the mapping to a network drive.

- 6 Locate and open the `components` directory on the newly-mapped drive.
- 7 Double-click the `testers_components.exe` file. This is a self-extracting file that automatically opens to the `temp` directory and begins the installation process on the Agilent AOI controller.

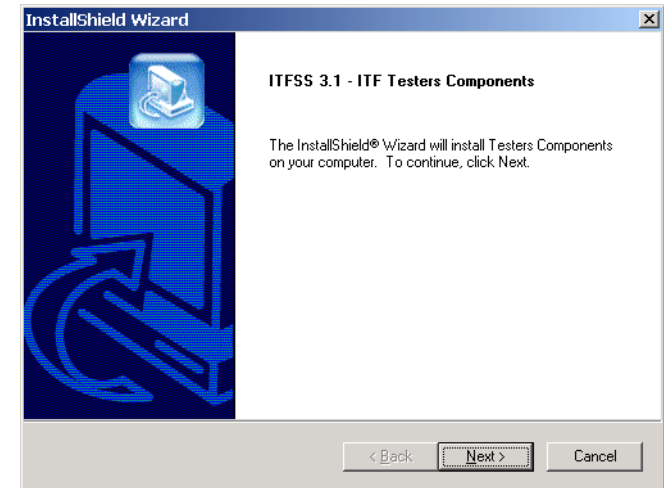
The setup program starts extracting files.

**Figure 6-14** Extracting files



After the files are extracted, the **Welcome** dialog box appears.

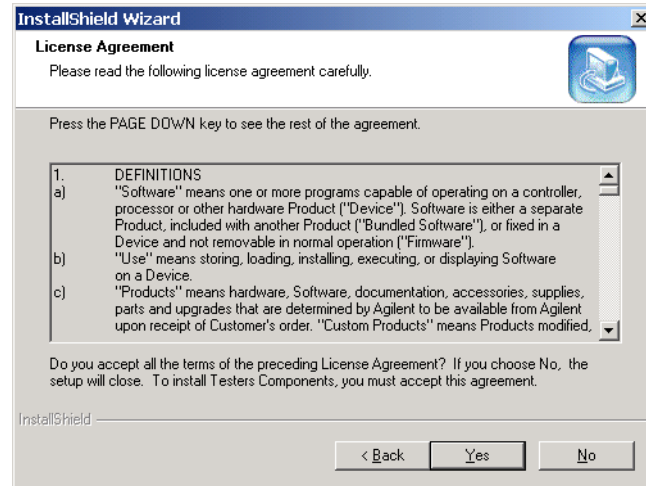
**Figure 6-15** Welcome dialog box



8 Click **Next**.

The **License Agreement** dialog box appears.

**Figure 6-16** License Agreement dialog box



Read the Agilent License Agreement, and then click **Yes** to accept it.

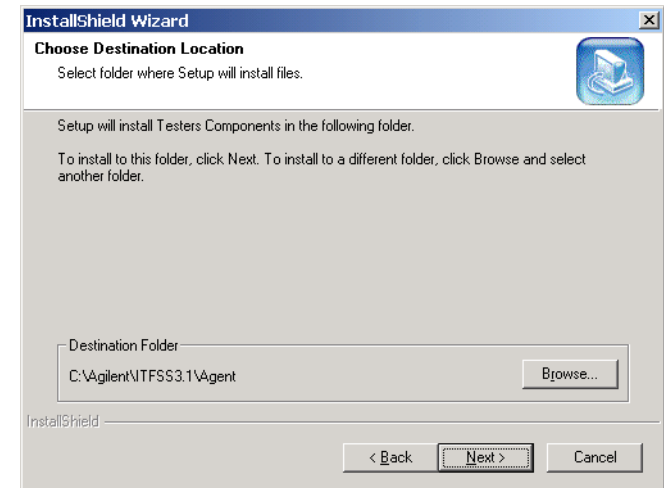
The **Release Notes** dialog box appears.

9 Read the Release Notes, and then click **Next**.

The **Choose Destination Location** dialog box for ITF Agent appears. The default directory is

C:\Agilent\ITFSS3.1\Agent\.

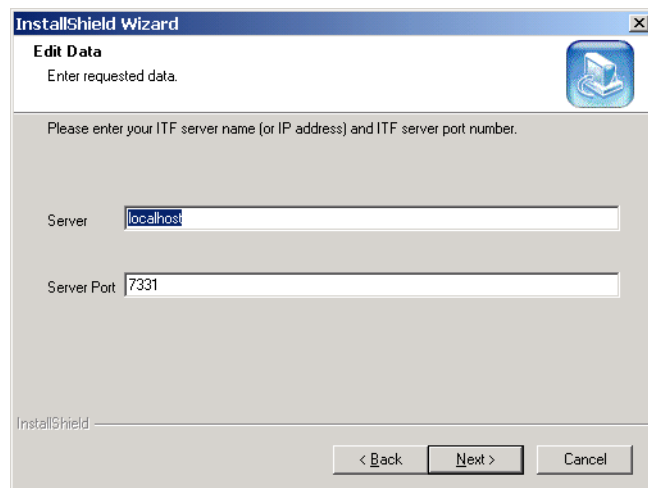
**Figure 6-17** Enter destination folder for ITF Agent



10 To accept the default directory, click **Next**.  
Otherwise, enter the desired directory and click **Next**.

The **Edit Data** dialog box appears.

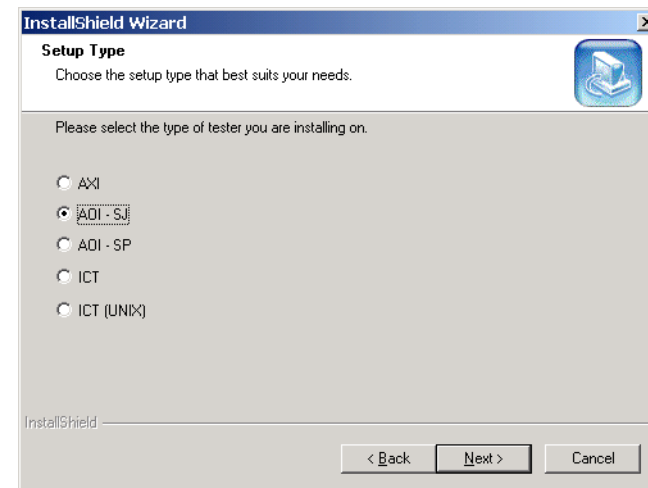
**Figure 6-18** Enter name and port number of ITF Server



**11** Enter the name and port number of the ITF Server, and then click **Next**.

The **Setup type** dialog box for selecting the tester type appears.

**Figure 6-19** Select tester type



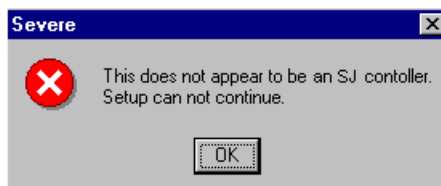
**12** Click **AOI\_SJ** or **AOI\_SP** depending on the model of your tester.

**13** Click **Next**.



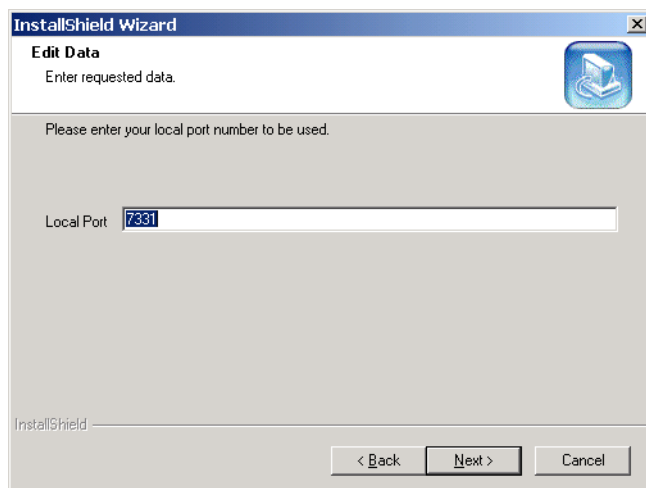
You will receive the following warning message, if you attempt to install the components on a system other than an Agilent AOI controller.

Figure 6-20 Warning Message



The **Edit Data** dialog box appears for you to enter the local port number.

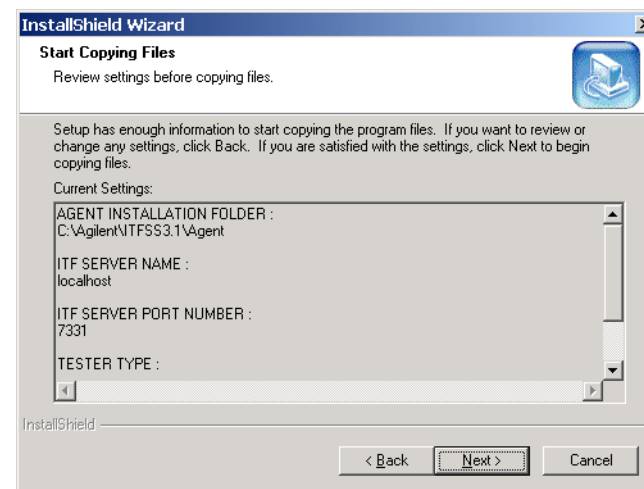
Figure 6-21 Enter local port number



14 Enter the local port number and then click **Next**.

The **Start Copying Files** dialog box appears for you to review the installation settings.

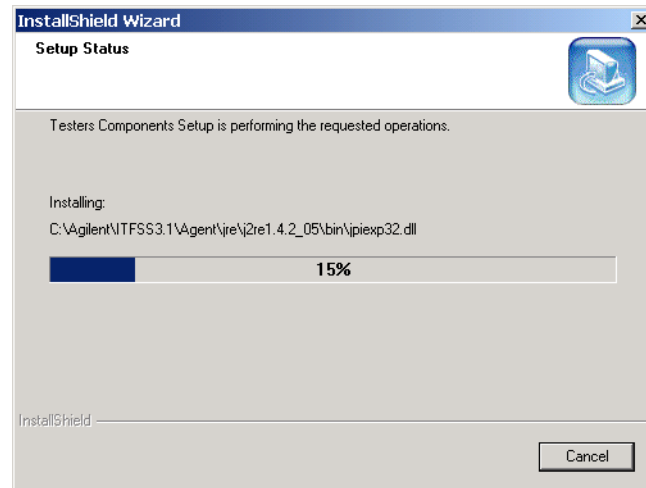
Figure 6-22 Review installation settings



15 Review the installation settings and then click **Next**.

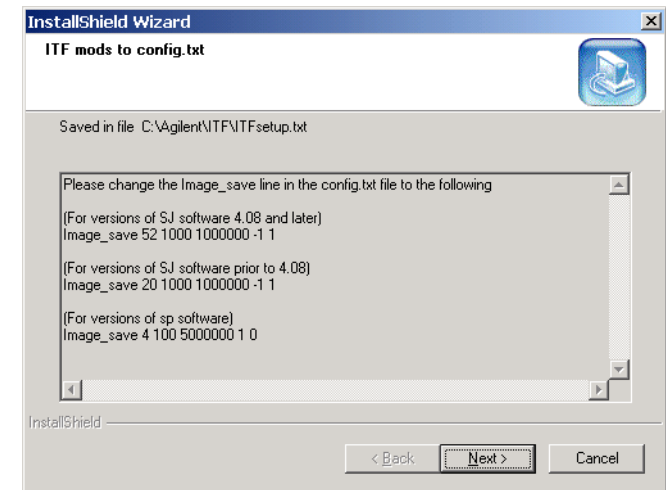
The **Setup Status** dialog box appears, displaying the progress of the installation.

**Figure 6-23** Setup Status dialog box



During the installation process, the **ITF mods to config.txt** dialog box appears. It lists the changes that you need to make to the `config.txt` file on the Agilent AOI.

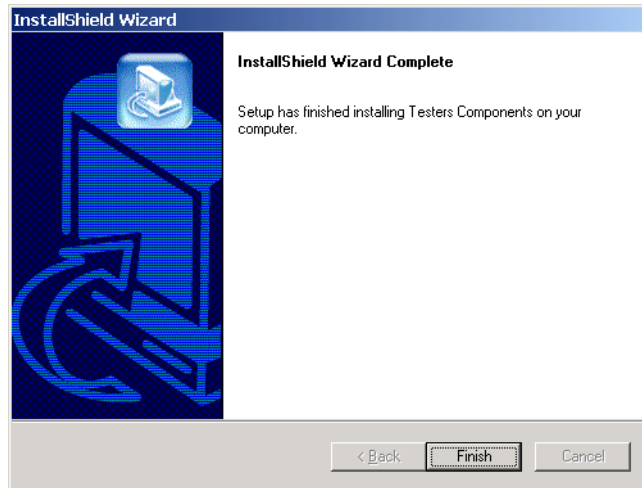
**Figure 6-24** ITF mods to config.txt



**16** Review the changes and then click **Next**.

When the installation is completed, the **Setup Complete** dialog box appears.

**Figure 6-25** Setup Complete



#### NOTE

In order to maintain active network connections, the installation software will increase the network connection autodisconnect time to two days (2880 minutes).

**17** Click **Finish**.

## Part 3: Configure the AOI Tester

**1** If necessary, modify the file

`C:\cpi\data\config.txt` by changing the contents of “image\_save”.

- For versions of SJ software 4.08 and later:  
Image\_save 52 1000 1000000 -1 1
- For versions of SJ software prior to 4.08:  
Image\_save 20 1000 1000000 -1 1
- For versions of SP software:  
Image\_save 4 100 5000000 1 0

#### NOTE

This information can also be found in the file,  
`C:\Agilent\ITF\ITFsetup.txt`.

**2** Delete `mapdrive.bat`.

- For tester controller with Windows NT4.0, the file is located in `C:\WINNT\Profiles\All Users\Start Menu\Programs\Startup`.
- For tester controller with Windows 2000 or Windows XP, the file is located in `C:\Documents and Settings\All Users\Start Menu\Programs\Startup`.

- 3 Double-click the file, `SJBoardSend.exe`, in the `C:\Agilent\ITF` folder.
  - Change the default setting for AOI file storage to have the value `<installed folder>\storage\Input`, where default `<installed folder>` is `C:\Agilent\ITFSS3.1\Agent`.
  - Select the remaining options based on what was recorded earlier in **Part 1: Uninstall the ITF SJ Components**.

## Upgrading the Agilent ICT WN

For Agilent ICT WN, the steps for upgrading the tester are:

- **Part 1: Uninstall the ITF 3070 WN Components**
- **Part 2: Install ITF Tester Components**
- **Part 3: Configure the ICT WN Tester**

### Part 1: Uninstall the ITF 3070 WN Components

- 1 Go to the Windows Control Panel.
- 2 Double-click **Add/Remove Programs**.
- 3 Select **ITF 3070 WN Components** from the list and click **Remove**.

### Part 2: Install ITF Tester Components

- 1 Log on to the Agilent ICT WN controller with Administrator privileges.
- 2 Open Windows® Explorer.
- 3 On the **Tools** menu, click **Map Network Drive**.
- 4 Map the ITF Server from the Agilent ICT WN controller.
  - a Select any available drive in the **Drive** text box.
  - b Enter the folder:

```
\\<System Name of ITF Server>\install
```
  - c Make sure you *clear* the **Reconnect at Logon** check box.

- d Click **Finish**.

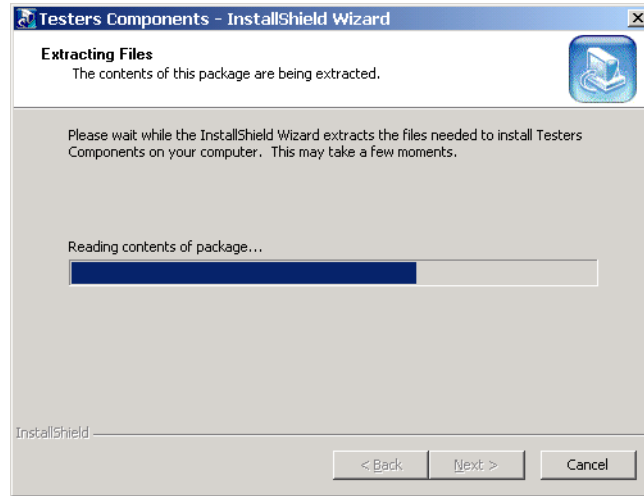
#### NOTE

It may be necessary to provide the Agilent ITF Administrator login name and password to complete the mapping to a network drive.

- 5 Locate the `components` directory on the ITF Server.
- 6 Double-click the `testers_components.exe` file. This is a self-extracting file that automatically opens to the `temp` directory and begins the installation process on the Agilent AOI controller.

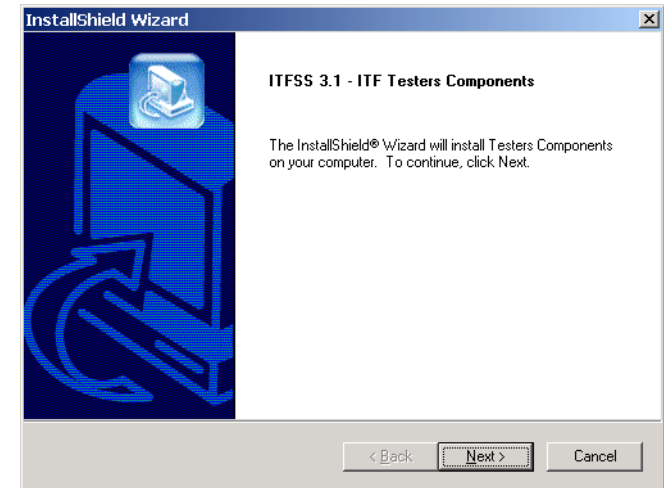
The setup program starts extracting files.

**Figure 6-26** Extracting files



After the files are extracted, the **Welcome** dialog box appears.

**Figure 6-27** Welcome dialog box



7 Click **Next**.

The **License Agreement** dialog box appears.

**Figure 6-28** License Agreement dialog box



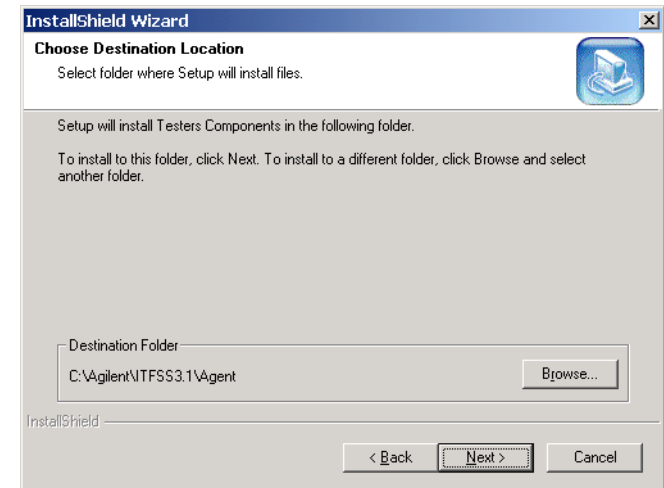
8 Read the Agilent License Agreement, and then click **Yes** to accept it.

The **Release Notes** dialog box appears.

9 Read the Release Notes, and then click **Next**.

The **Choose Destination Location** dialog box for ITF Agent appears. The default directory is C:\Agilent\ITFSS3.1\Agent\.

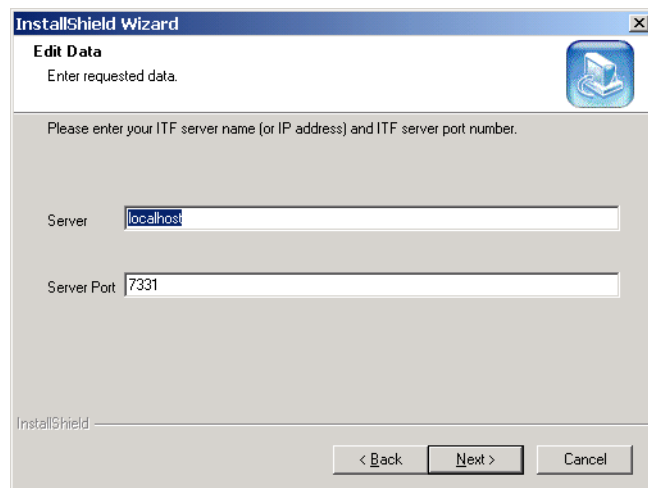
**Figure 6-29** Enter destination folder for ITF Agent



10 To accept the default directory, click **Next**. Otherwise, enter the desired directory and click **Next**.

The **Edit Data** dialog box appears.

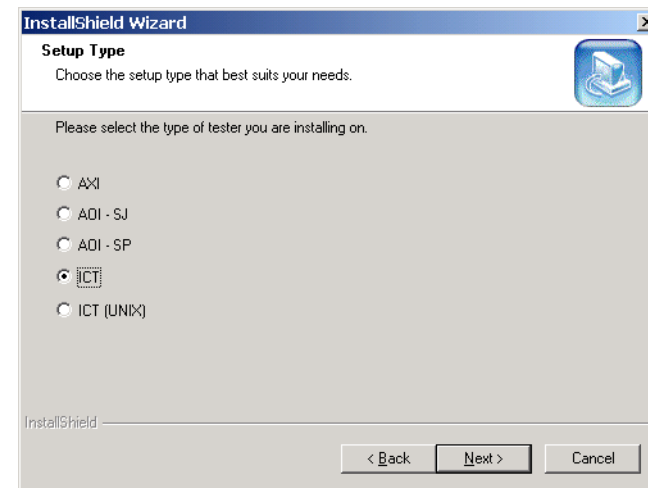
**Figure 6-30** Enter name and port number of ITF Server



**11** Enter the name and port number of the ITF Server, and then click **Next**.

The **Setup type** dialog box for selecting the tester type appears.

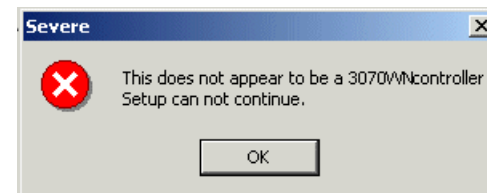
**Figure 6-31** Select tester type



**12** Click **ICT** and then click **Next**.

You will receive the following warning message, if you attempt to install the components on a system other than an Agilent ICT WN controller.

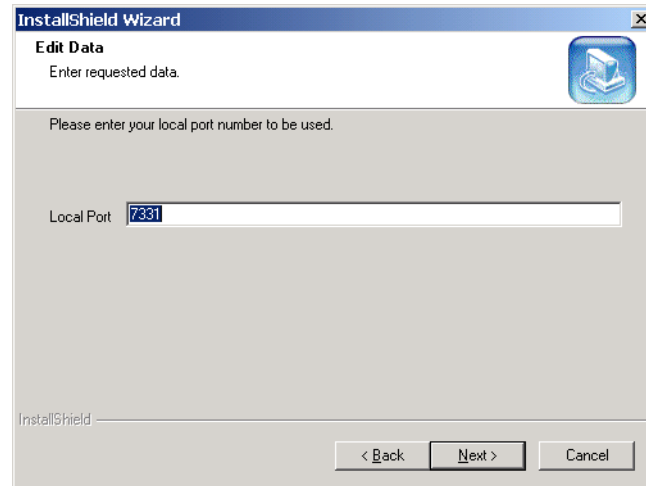
**Figure 6-32** Warning Message





The **Edit Data** dialog box appears for you to enter the local port number.

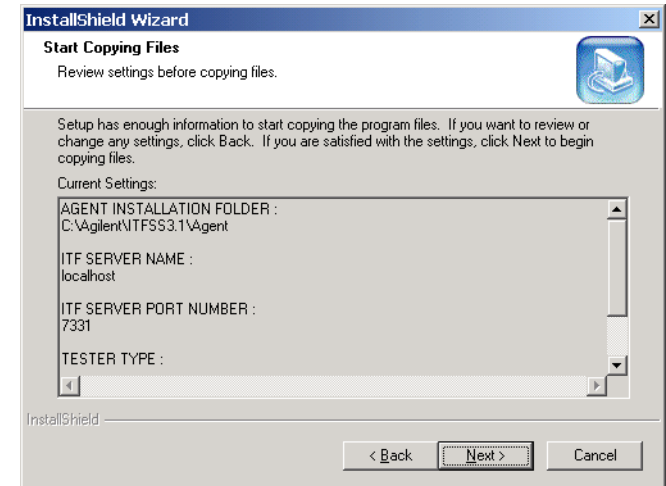
**Figure 6-33** Enter local port number



**13** Enter the local port number and then click **Next**.

The **Start Copying Files** dialog box appears for you to review the installation settings.

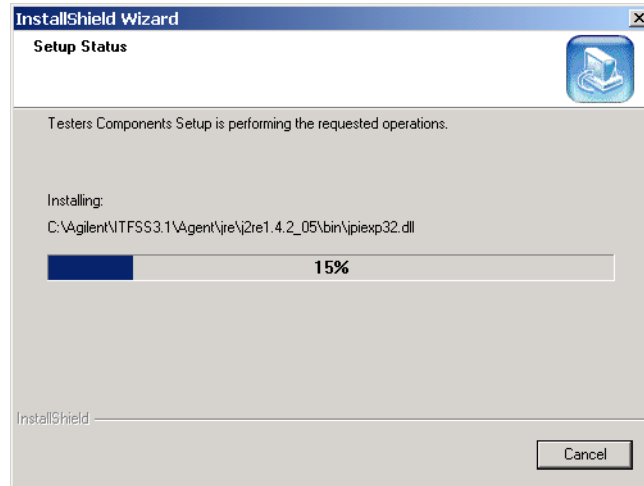
**Figure 6-34** Review installation settings



**14** Review the installation settings and then click **Next**.

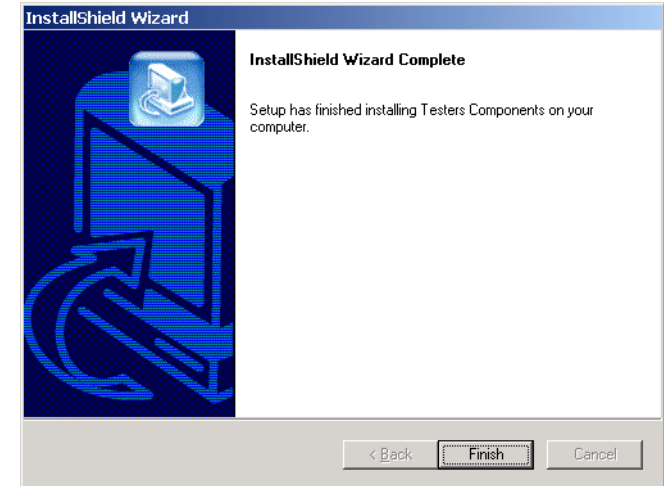
The **Setup Status** dialog box appears, displaying the progress of the installation.

**Figure 6-35** Setup Status dialog box



When the installation is completed, the **Setup Complete** dialog box appears.

**Figure 6-36** Setup Complete



**15** Click **Finish**.

### Part 3: Configure the ICT WN Tester

The configuration of the ICT WN tester consists of the following procedures:

- **Modifying the GENCAMSTORE Environment Variable**
- **Running the Perl Script to Modify the tld.prplus File**
- **Running the aitfprp2art Script to Modify Testplans and Generate GenCAM Files**
- **Verifying the Names of the GenCAM Files**

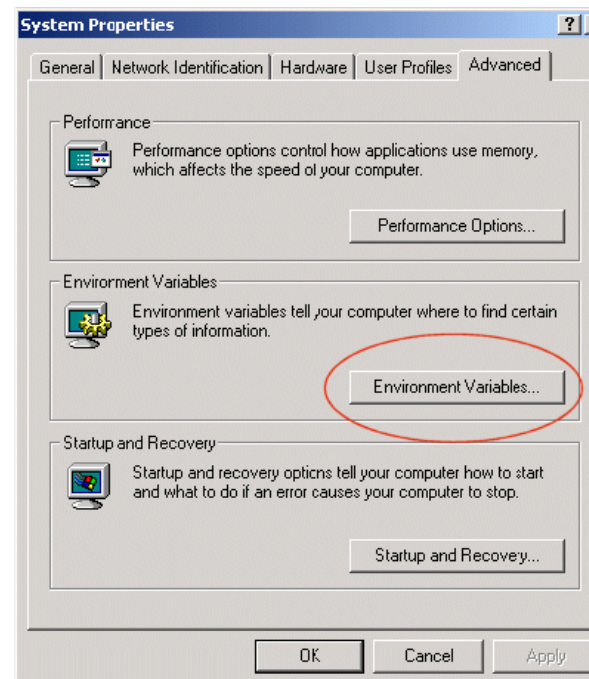
#### Modifying the GENCAMSTORE Environment Variable

In order to specify the location of the GenCAM files, you need to create the GENCAMSTORE environment variable.

To do so:

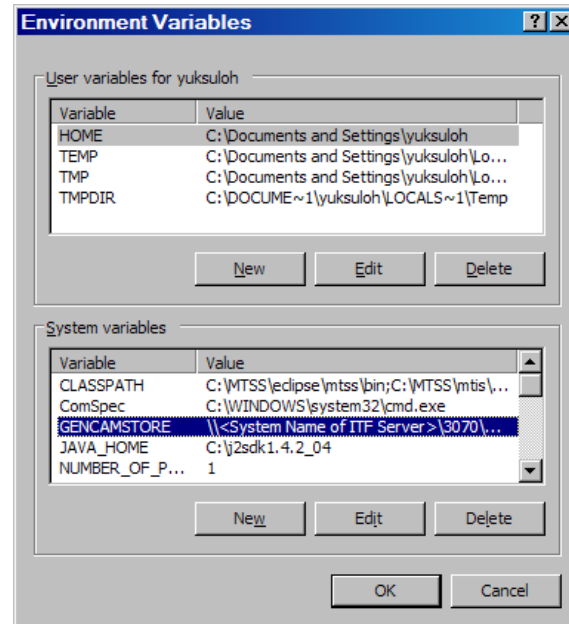
- 1 On the computer desktop, right-click the **My Computer** icon.
- 2 Click **Properties** on the menu that appears.  
The **System Properties** dialog box appears.
- 3 In the **System Properties** dialog box, click the **Advanced** tab followed by the **Environment Variables** button.

Figure 6-37 System Properties dialog box



The **Environment Variables** dialog box appears.

**Figure 6-38** Environment Variables dialog box



- 4 Under **System Variables**, click the **Edit** button.
- 5 Edit the GENCAMSTORE environment variable as shown in **Figure 6-38**.

- a In the **Variable Value** text box, type:

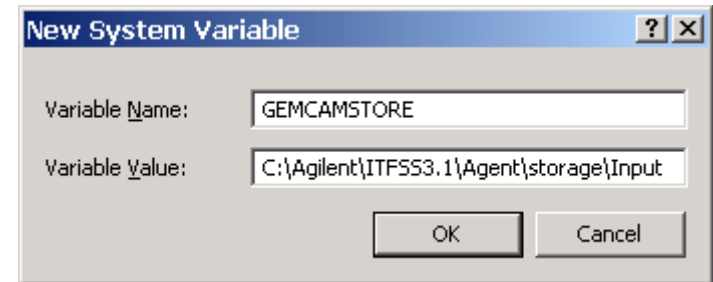
```
\\<Install folder of ITF Agent>\storage\Input
```

The default location is

```
C:\Agilent\ITFSS3.1\Agent\storage\Input
```

- b Click **OK**.

**Figure 6-39** GENCAMSTORE System Variable



The **Environment Variables** dialog box (**Figure 6-39**) appears again.

- 6 Click **OK** until all dialog boxes are closed.

Repeat this setup procedure for each Agilent ICT WN system you wish to connect to the Intelligent Test Framework.

#### NOTE

If you have a Single-Tester ITF Server, only one test system can be connected to the Intelligent Test Framework.

### Running the Perl Script to Modify the `tld.prplus` File

As part of the Agilent ITF software installation process, a Perl script file called `aitfmodtld.pl` was added to your Agilent ICT WN controller. You must run this file in order to modify your system's `tld.prplus` file for use with the Intelligent Test Framework.

To run the Perl script:

- 1 Log on to the Agilent ICT WN controller with Administrator privileges.
- 2 Open a Korn shell dialog box. To open a Korn shell dialog box, click **Start > Programs > Agilent3070 > Korn Shell**.
- 3 At the command prompt, type:

```
perl $AGILENT3070_ROOT/bin/aitfmodtld.pl
```

then press **Enter**.

#### NOTE

If you have modified the `tld.prplus` file (i.e., for a custom log-data consumer), the Perl script may not work correctly. You may need to re-design your custom log-data consumer in order to use it simultaneously with Agilent Repair Tool.

- 4 Restart the Agilent ICT WN controller.
- 5 Repeat the above steps on each Agilent ICT WN that is connected to the Intelligent Test Framework. If you have a Single-Tester ITF Server, only one test system can be connected to the Intelligent Test Framework.

### Running the `aitfprp2art` Script to Modify Testplans and Generate GenCAM Files

One of the last steps in configuring the Agilent ICT WN for use with the Agilent Repair Tool is to run the `aitfprp2art` script. This script automatically modifies your testplans and generates GenCAM files for use with the Intelligent Test Framework.

In particular, the `aitfprp2art` script does the following:

- Modifies each board testplan.
- Generates GenCAM files and places them in the GenCAMData folder on the ITF Server

If you have a large number of board directories that you would like to modify for use with the Intelligent Test Framework and Agilent Repair Tool, you may wish to use this script.

**CAUTION**

If CAD data is not available for a board type and a GenCAM file cannot be successfully created using the gc3070 tool, you must first create an empty text file on the Agilent ICT WN controller (`touch <board-type>.gcm`) in a Korn shell dialog box.

Before you manually move GenCAM files from the Agilent ICT WN to the ITF Server, be sure to run the following command to make the files readable and writable:

```
chmod 666 <board-type>.gcm
```

Now move the empty GenCAM file to the `C:\Agilent\ITFSS3.1\Agent\storage\Input` folder.

To run the `aitfprp2art` script:

- 1 Log on to the Agilent ICT WN controller with User privileges.
- 2 Open a Korn shell dialog box on the Agilent ICT WN. To open a Korn shell dialog box, click **Start > Programs > Agilent3070 > Korn Shell**.
- 3 Change to the parent directory of your boards.
- 4 At the command prompt, type: `aitfprp2art` then press **Enter**.

The script moves from the parent directory down through your file system looking for all board directories. Board directories are identified by the presence of a file called “testplan.”

The `aitfprp2art` script does the following:

- Makes a backup copy of the original testplan and names it `testplan.prp`
- Changes all occurrences of the words `Using_PRPlus` to `Using_ART` in the testplan file
- Sets `Using_ART = True`
- Changes the log level in the testplan from `failures without nhls, pins to indictments without nhls`
- Executes the `gc3070` utility in the board directory. This produces GenCAM files and sends them to the ITF Server.
- Saves the modified testplan and names it `testplan`.

### Verifying the Names of the GenCAM Files

The Intelligent Test Framework software requires the name of your GenCAM file to match the board type in the log file which was generated by a standard testmain. If the names are different, CAD data for the given board type is not displayed in the Agilent Repair Tool.

There are two ways to verify the name of your GenCAM file. You can cross-check the GenCAM file name listed in the GenCAMData folder on the ITF Server with either the:

- Board\$ variable in the Agilent ICT WN testplan, or
- @BATCH log record in the Agilent ICT WN log file.

To locate the Board\$ variable in a standard ICT testplan:

- 1 Open the testplan in a BT-Basic window.
- 2 Locate the `sub Initialize_Board_Constants` section of the testplan.

The first variable listed under the section should be `Board$ = "<board type>"`. For example, in [Figure 6-40](#), the board type is “gecko.” You would want to make sure your GenCAM file is also named “gecko” (i.e., `gecko.gcm`).

**Figure 6-40** Example of Board\$ Variable in Testplan

```
sub Initialize_Board_Constants
global Board$, Board_Rev$

Board$ = "gecko"
```

#### NOTE

If you are not using the standard Agilent ICT testplan format, you may have to check to see if the log board variable designator is something other than “Board\$.”

To locate the @BATCH log record in the Agilent ICT WN log file:

- Open a copy of the log file in a BT-BASIC window.

The @BATCH log record should be the first line in the log file.

The board type will be the first parameter listed in the @BATCH log record.

**Figure 6-41** Example @BATCH Log Record in an ICT Log File



The configuration of the Agilent ICT WN is completed. Proceed to Chapter 7, [Verifying Data Transmission](#) to verify data transmission to the ITF Server.



## Upgrading the Agilent ICT UX

For Agilent ICT UX, the steps for upgrading the tester are:

- **Part 1: Install Agent (on the ITF Server)**
- **Part 2: Installing ITF Components in the Agilent ICT UX**
- **Part 3: Configure ICT UX Tester**

### Part 1: Install Agent (on the ITF Server)

- 1 Log on to the ITF Server with Administrator privileges.
- 2 Open Windows® Explorer.
- 3 Browse to the folder:

```
<Installed folder of ITF Server>\install\  
components
```

The default location is

```
C:\Agilent\ITFSS3.1\ITF\install\components
```

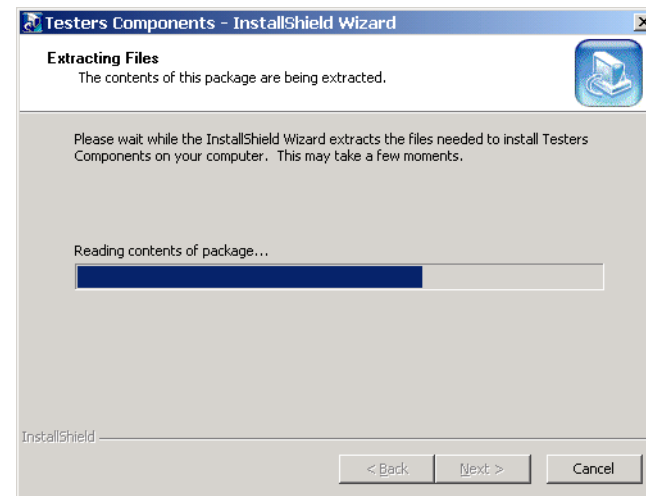
#### NOTE

It may be necessary to provide the Agilent ITF Administrator login name and password to complete the mapping to a network drive.

- 4 Double-click the `testers_components.exe` file located in the `components` folder. This is a self-extracting file that automatically opens to the `temp` directory and begins the installation of the tester components on the ITF Server.

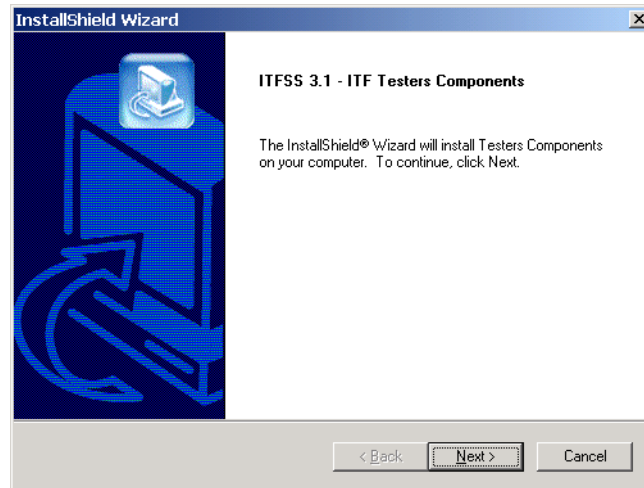
The setup program starts extracting files.

Figure 6-42 Extracting files



After the files are extracted, the **Welcome** dialog box appears.

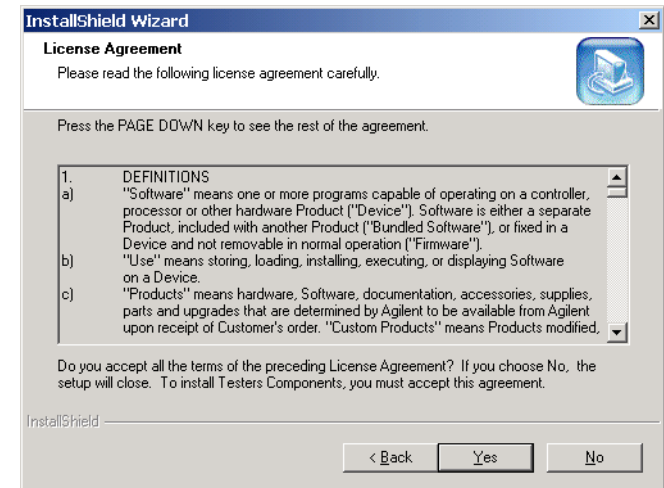
**Figure 6-43** Welcome dialog box



5 Click **Next**.

The **License Agreement** dialog box appears.

**Figure 6-44** License Agreement dialog box



- 6 Read the Agilent License Agreement, and then click **Yes** to accept it.

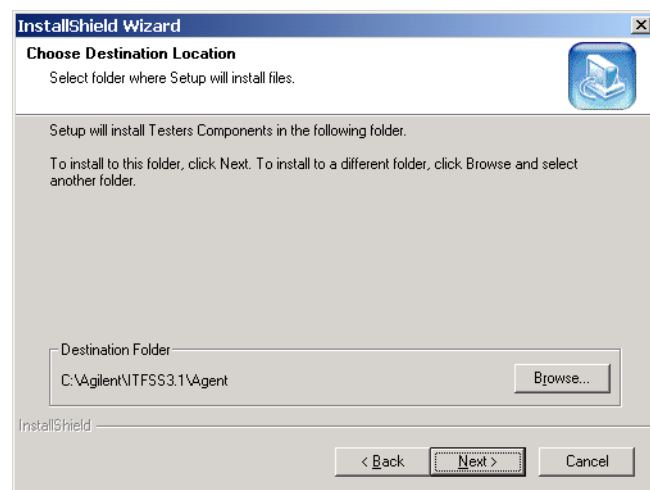
The **Release Notes** dialog box appears.

- 7 Read the Release Notes, and then click **Next**.

The **Choose Destination Location** dialog box for ITF Agent appears. The default directory is

C:\Agilent\ITFSS3.1\Agent\.

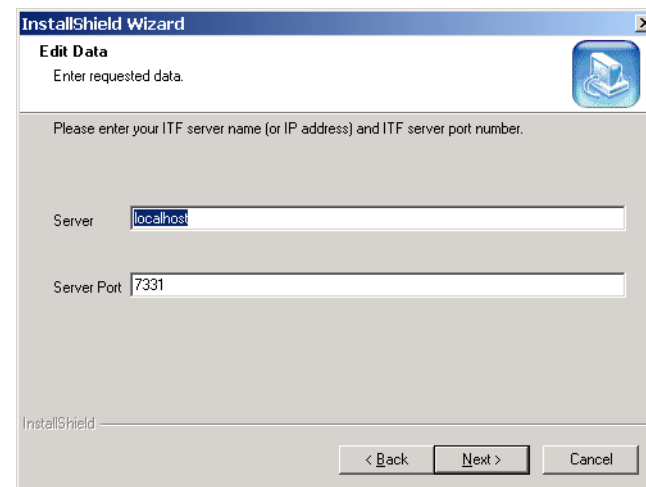
**Figure 6-45** Enter destination folder for ITF Agent



- 8 To accept the default directory, click **Next**.  
Otherwise, enter the desired directory and click **Next**.

The **Edit Data** dialog box appears.

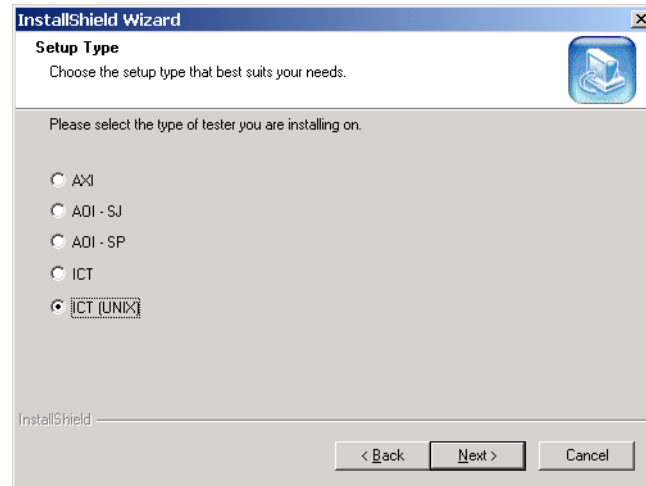
**Figure 6-46** Enter name and port number of ITF Server



- 9 Enter the name and port number of the ITF Server, and then click **Next**.

The **Setup type** dialog box for selecting the tester type appears.

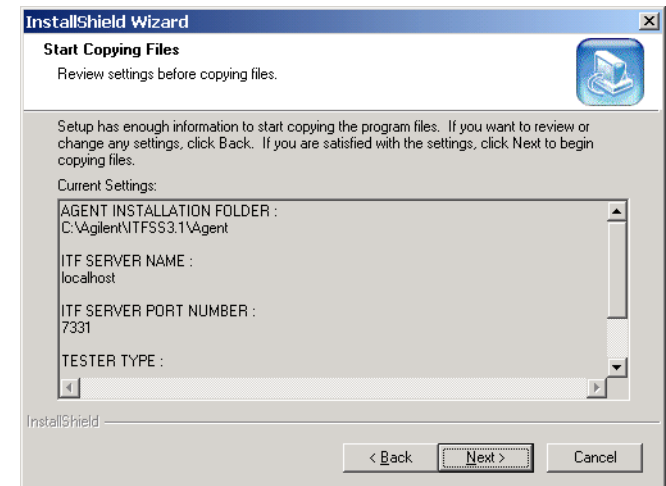
**Figure 6-47** Select tester type



**10** Click **ICT (UNIX)** and then click **Next**.

The **Start Copying Files** dialog box appears for you to review the installation settings.

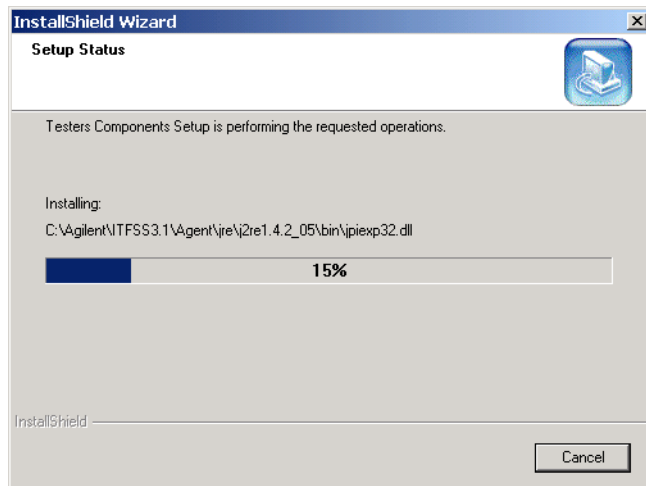
**Figure 6-48** Review installation settings



**11** Review the installation settings and then click **Next**.

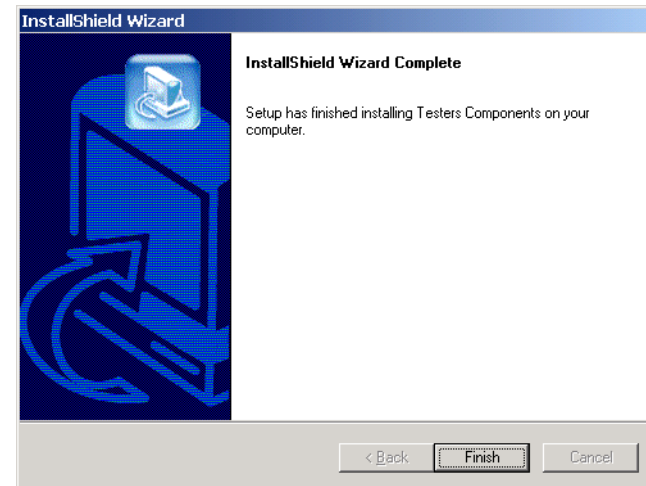
The **Setup Status** dialog box appears, displaying the progress of the installation.

**Figure 6-49** Setup Status dialog box



When the installation is completed, the **Setup Complete** dialog box appears.

**Figure 6-50** Setup Complete



**12** Click **Finish**.

The installation of Intelligent Test Framework tester components on the ITF Server is completed.

**NOTE**

If you have a Single-Tester ITF Server, only one test system can be connected to the Intelligent Test Framework.

## Part 2: Installing ITF Components in the Agilent ICT UX

- 1 Log on to the Agilent ICT UNIX controller as Root or Super User.
- 2 Open a shell dialog box.
- 3 At the command prompt, map to the ITF Server by typing:

```
cd /net/<System name of ITF Server>
/install/components/ICT_UX
```

and then press **Enter**.

### NOTE

Whenever you see commands surrounded by  $\diamond$ , please replace these symbols and the text with the stated information.

At the command prompt, type the command line which corresponds to your version of Agilent ICT UNIX software.

- For software version **04.00pa**, type:
- For software version **05.00pa or higher**, type:

```
tar -xvf ITF3070_400.tar
```

```
tar -xvf ITF3070_500.tar
```

After you type the command, press **Enter**.

- 4 At the command prompt, type:
 

```
cd /opt/hp3070/contrib/bin
```

 and then press **Enter**.
- 5 At the command prompt, type the following to see a listing of the files in the directory.

```
ll gc3070*
```

- 6 Verify whether the directory includes the `gc3070` file. If the directory includes the `gc3070` file, the installation process is complete. Skip to [step 7](#).

If the directory does not include the `gc3070` file, look to see if it includes the `gc3070.z` file; `gc3070.z` is a compressed version of the `gc3070` file. To uncompress the `gc3070.z` file, you can run the Convert utility on that directory or uncompress it manually. The Convert utility will unpack all `*.Z` files and make them runnable. If you prefer to uncompress the `gc3070.z` file manually, see the instructions at the end of this step.

To uncompress the file using the Convert utility,

- a Make sure you are logged in as Super User.
- b At the command prompt, type:
 

```
cd /opt/hp3070/contrib/bin
```

 and then press **Enter**.
- c At the command prompt, type: `./Convert` and then press **Enter**.
 

The Convert utility will unpack all of the files located under the `/contrib/bin` directory.
- d Type `Yes` when asked if you want to continue.

- e When Convert is finished, check to make sure the `gc3070` file is listed in the `/contrib/bin` directory.

#### NOTE

To uncompress the files manually, type:

```
uncompress gc3070.Z
chmod 555 gc3070
chown hp3070:hp3070 gc3070
```

---

The installation of Intelligent Test Framework components is completed.

- 7 Repeat steps 1-7 for each Agilent ICT UNIX you wish to connect to the Intelligent Test Framework.

#### NOTE

If you have a Single-Tester ITF Server, only one test system can be connected to the Intelligent Test Framework.

---

## Part 3: Configure ICT UX Tester

The configuration of the ICT UX tester consists of the following procedures:

- [Setting the ITF Server Path in the hp3070 and profile Files](#)
- [Running the Perl Script to Modify the tld.prplus File](#)
- [Running the aitfprp2art Script to Modify Testplans and Generate GenCAM Files](#)
- [Verifying the Names of the GenCAM Files](#)

### Setting the ITF Server Path in the hp3070 and profile Files

#### NOTE

This procedure applies only to Agilent ICT UNIX.

---

- 1 Log on to the Agilent ICT UNIX controller as Root or Super User.
- 2 Open a shell dialog box.
- 3 At the command prompt, type: `cd /sbin/init.d` and then press **Enter**.
- 4 Make a backup copy of the `hp3070` file. For example, typing `cp -p hp3070 hp3070_old` at the command prompt will create a backup copy named `hp3070_old` of the `hp3070` file.

- 5 Type: `vi hp3070` and then press **Enter**.  
This opens the `hp3070` file and allows you to edit its contents.
- 6 Locate the environment variable  
`declaration/export` section of the file and  
uncomment the following lines of code.

**CAUTION**



Double-check to make sure the correct directory path is listed for `GENCAMSTORE` in your `hp3070` file. If it is not, replace the directory path with the path indicated in the following figure.

**Figure 6-51** Environment Variable Code

```
export FRAMEWORKHOST=<System Name of ITF Server>
export GENCAMSTORE=/net/$FRAMEWORKHOST/storage/Input
```

- 7 Replace `<System Name of ITF Server>` with the system name (hostname) of your ITF Server.

**NOTE**

Whenever you see commands surrounded by `<>`, please replace these symbols and the text with the stated information.

If the code is not currently listed in the file, manually enter it. The code should be placed immediately after the `LIB=/opt/hp3070/lib` command. Be sure to replace the text and brackets in the first line of code with the actual system name of your ITF Server.



Figure 6-52 Modified hp3070 file

```

case $1 in
start_msg)
    echo "Starting Agilent 3070"
    ;;
start)
    # source the system configuration variables
    if [ -f /etc/rc.config ] ; then
        . /etc/rc.config
    else
        echo "ERROR: /etc/rc.config defaults file MISSING"
    fi

    BIN=/opt/hp3070/bin
    LIB=/opt/hp3070/lib
    # The following variables are set for the Agilent Intelligent Test Framework.
    # The first defines the hostname of the ITF Server.
    # The second points to the directory where the GenCAM CAD data is to be sent.
    export FRAMEWORKHOST=<System Name of ITF Server>
    export GENCAMSTORE=/net/$FRAMEWORKHOST/storage/Input

    rm -f /etc/.tld.pid
    env PATH=$BIN:$PATH nice translogd &&
    echo "\ttranslogd (to transfer log data files) started"

```

8 To save your changes, press the **Esc** key. Type: :wq! and then press **Enter**.

9 At the command prompt, type:

```
cd /opt/hp3070/lib and then press Enter.
```

10 Make a backup copy of the `profile` file. For example, typing `cp -p profile profile_old` at the command prompt will make a backup copy named `profile_old` of the `profile` file.

11 At the command prompt, type: `vi profile` then press **Enter**.

This opens the `profile` file and allows you to edit its contents.

12 Locate the `Set variables` section of the file and uncomment the following lines of code:

**CAUTION**



Double-check to make sure the correct directory path is listed for GENCAMSTORE in your `profile` file. If it is not, replace it with the one listed below.

**Figure 6-53** Set Variable Code

```
export FRAMEWORKHOST=<System Name of ITF Server>  
export GENCAMSTORE=/net/$FRAMEWORKHOST/storage/Input
```

**13** Replace `<System Name of ITF Server>` with the actual system name (hostname) of your ITF Server.

**NOTE**

Whenever you see commands surrounded by `<>`, please replace these symbols and the text with the stated information.

If the code is not currently listed in the file, manually enter it. The code should be placed immediately after the `export HP3070_HELP_DIR` command. Be sure to replace the text and brackets in the first line of code with the actual system name of your ITF Server.

Figure 6-54 Modified profile file

```

addtopath CLASSPATH ${AGILENT3070_MAIN}/lib/FrameChainView.jar
addtopath CLASSPATH ${AGILENT3070_MAIN}/lib/magicgui.jar
addtopath CLASSPATH ${AGILENT3070_MAIN}/lib/java
# addtopath CLASSPATH ${AGILENT3070_MAIN}/lib/jcbwt350.jar
addtopath CLASSPATH ${AGILENT3070_MAIN}/lib/swing.jar
export CLASSPATH

addtopath HP3070_HELP_DIR ${AGILENT3070_MAIN}/help
export HP3070_HELP_DIR

# The following variables are set for the Agilent Intelligent Test Framework.
# The first defines the hostname of the ITF Server.
# The second points to the directory where the GenCAM CAD data is to be sent.

export FRAMEWORKHOST=<System name of ITF Server>
export GENCAMSTORE=/net/${FRAMEWORKHOST}/storage/Input

# Set this environment variable for GUI programs that still use built in
# Motif help widgets and old VUE help files. And set it here for remote
# login case, since this script will get called in $HOME/.profile
addtopath XVHELPSYSTEMSEARCHPATH ${AGILENT3070_MAIN}/help/C/PBQ/PBQ.hv
export XVHELPSYSTEMSEARCHPATH

# The following looks for login from a separate system being used as an
# X-Terminal, and provides a symbolic link to the home directory there,
# if possible. This code will also execute when logging in from a true
# X-Terminal, in which case nothing useful can be done, but we try anyway.
if [ "$LOCAL_XSERVER" = false ] && # set only /usr/vue/config/xsession
  [ "$XKBDSERVER" = "itf_hp" ] # we only do this for non-PC keyboards
  # as a simple way to estimate which

```

14 To save your changes,

- a Press the **Esc** key.
- b Type: `:wq!` and press **Enter**.

15 Repeat the above steps on each Agilent ICT UNIX that is connected to the Intelligent Test Framework.

#### NOTE

If you have a Single-Tester ITF Server, only one test system can be connected to the Intelligent Test Framework.

### Running the Perl Script to Modify the `tld.prplus` File

As part of the Agilent ITF software installation process, a Perl script file called `aitfmodtld.pl` was added to your Agilent ICT UNIX controller. You must run this file in order to modify your system's `tld.prplus` file for use with the Intelligent Test Framework.

To run the Perl script:

- 1 Log out of the Agilent ICT UNIX controller, if you are currently logged in as Super User.
- 2 Log on to the Agilent ICT UNIX controller as an ICT user.
- 3 Open a shell dialog box.
- 4 At the command prompt, type:

```
perl /opt/hp3070/bin/aitfmodtld.pl
```

and then press **Enter**.

- 5 Log out of the system. At the **Welcome** login dialog box, select **Options > Command Line Login**, and then press **Enter**.

### NOTE

Whenever you run the PR+ administrative program (`prsetup`), you must re-run the above Perl script. `Prsetup` overwrites the `/var/hp3070/qm/logdata/tld.prplus` file, thus removing the modifications performed by this perl script. `Prsetup` is typically run whenever you add a new board type to your Agilent 3070 UNIX test system for PR+.

Running `prsetup` on one tester has the ability to overwrite the `tld.prplus` file on all testers that are known to `prsetup`. Therefore, if you run `prsetup`, you must re-run the Perl script for every tester in the `prsetup` list.

If you have modified the `tld.prplus` file (i.e., for a custom log-data consumer), the Perl script may not work correctly. You may need to re-design your custom log-data consumer in order to use it simultaneously with Agilent Repair Tool.

- 6 Login as Super User, and then restart the Agilent ICT UNIX controller. (Type: `/etc/shutdown -r`)
- 7 Repeat the above steps on each Agilent ICT UNIX that is connected to the Intelligent Test Framework. If you have a Single-Tester ITF Server, only one test system can be connected to the Intelligent Test Framework.

### Running the aitfprp2art Script to Modify Testplans and Generate GenCAM Files

One of the last steps in configuring the Agilent ICT UNIX for use with the Agilent Repair Tool is to run the aitfprp2art script. This script automatically modifies your testplans and generates GenCAM files for use with the Intelligent Test Framework.

In particular, the aitfprp2art script does the following:

- Modifies each board testplan
- Generates GenCAM files and places them in the GenCAMData folder on the ITF Server

If you have a large number of board directories that you would like to modify for use with the Intelligent Test Framework and Agilent Repair Tool, you may wish to use this script.

### CAUTION



If CAD data is not available for a board type and a GenCAM file cannot be successfully created using the gc3070 tool, you must first create an empty text file on the Agilent ICT UNIX controller (`touch <board-type>.gcm`).

Before you manually move GenCAM files from the Agilent ICT UNIX to the ITF Server, be sure to run the following command to make the files readable and writable:

```
chmod 666 <board-type>.gcm
```

Now copy (using `cp -p`) the empty GenCAM file from the Agilent ICT UNIX controller to the ITF Server in the following directory:

```
<Install folder of ITF Agent>\storage\Input
```

The default location is

```
C:\Agilent\ITFSS3.1\Agent\storage\Input.
```

---

To run the aitfprp2art script:

- 1 Log on to the Agilent ICT UNIX controller as Super User.
- 2 Open a shell dialog box.
- 3 Change to the parent directory of your boards.

## 4 At the command prompt, type:

`/opt/hp3070/bin/aitfprp2art` and then press **Enter**.

The script moves from the parent directory down through your file system looking for all board directories. Board directories are identified by the presence of a file called “testplan.”

The `aitfprp2art` script does the following:

- Makes a backup copy of the original testplan and names it `testplan.prp`
- Changes all occurrences of the words `Using_PRPlus` to `Using_ART` in the testplan file.
- Sets `Using_ART = True`
- Changes the log level in the testplan from `failures without nhls, pins to indictments without nhls`
- Executes the `gc3070` utility in the board directory. This produces GenCAM files and sends them to the ITF Server.
- Saves the modified testplan and names it `testplan`.

**NOTE**

Make sure the GenCAM files have the correct permissions. If not, at the prompt type:

```
# chmod 666 /net/<System Name of ITF
Server>/3070/GenCAMData/<board-type>.gcm
```

**Verifying the Names of the GenCAM Files**

The Intelligent Test Framework software requires the name of your GenCAM file to match the board type in the log file which was generated by a standard testmain. If the names are different, CAD data for the given board type is not displayed in the Agilent Repair Tool.

There are two ways to verify the name of your GenCAM file. You can cross-check the GenCAM file name listed in the GenCAMData folder on the ITF Server with either the:

- Board\$ variable in the Agilent ICT UNIX testplan, or
- @BATCH log record in the Agilent ICT UNIX log file.

To locate the Board\$ variable in a standard Agilent ICT UNIX testplan:

- 1 Open the testplan in a BT-Basic window.
- 2 Locate the `sub Initialize_Board_Constants` section of the testplan.

The first variable listed under the section should be `Board$ = "<board type>"`. For example, in [Figure 6-40](#), the board type is “gecko.” You would want to make sure your GenCAM file is also named “gecko” (i.e., `gecko.gcm`).

**Figure 6-55** Example of Board\$ Variable in Testplan

```
sub Initialize_Board_Constants
global Board$, Board_Rev$

Board$ = "gecko"
```

**NOTE**

If you are not using the standard Agilent ICT testplan format, you may have to check to see if the log board variable designator is something other than “Board\$.”

To locate the @BATCH log record in the ICT log file:

- Open a copy of a log file in a BT-BASIC window.

The @BATCH log record should be the first line in the log file.

The board type will be the first parameter listed in the @BATCH log record.

**Figure 6-56** Example @BATCH Log Record in a ICT Log File

```
{@BATCH|gecko||311|1||btest|010402132402||hpmtabug|gecko|Rev.A||}
```

↑  
**Board Type**

The setup of the Agilent ICT UNIX is completed.

Proceed to Chapter 7, **Verifying Data Transmission** to verify data transmission to the ITF Server.

# Verifying Data Transmission

## Overview

This chapter contains instructions on the following task:

- **Verifying Data is Sent to the ITF Server, 7-2**

Prior to using the Intelligent Test Framework and its associated software applications, you should check your installation and configuration setup to verify that data is being sent to the ITF Server.



## Verifying Data is Sent to the ITF Server

After the test systems have been configured for use with the Intelligent Test Framework, verify that tester data is being sent to the ITF Server correctly.

For each test system, do the following:

- 1 Test one board on the test system that is connected to the ITF Server. Use a dummy serial number such as “test123” for this board.
- 2 Log on to the ITF Administration System in the ITF Server.
- 3 Click **Framework > Data Management > Data Viewer**.
- 4 Select the type of tester, and then click **Browse**.

The board type name of the board just tested should appear in a new browser window.

- 5 Click the board type name.

You should see the available serial number(s) for this board.