Intelligent Test Framework Server Setup Guide

Version 3.1 ITFSS 03.10 p 1204 April 2005





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ITF Server Setup Guide

Overview

The ITF Server Setup Guide is meant for IT departments and customers who wish to set up their own ITF Server.

This guide walks you through the stages of setting up a basic ITF Server. It includes instructions for installing and configuring software components associated with Agilent Intelligent Test Framework (ITF) servers.

- Minimum System Requirements, 4
- Setting up the ITF Server, 6

CAUTION



It is essential that you follow the instructions exactly, in the order given.

Minimum System Requirements

The Agilent ITF Server requires the following minimum system requirements.

NOTE

These requirements are provided as a guideline. The latest list of system requirement is available on <u>http://prdpre.home.agilent.com/USeng/nav/</u> -24447.0/pc.html. You need to be a valid Agilent Support Contract owner in order to login.

Hardware Requirements

The following are the hardware requirements for the ITF Server:

- Intel® Pentium® 4 processor 530 supporting HT Technology or higher; Dual Xeon® processors recommended
- 2 Gigabyte (GB) of RAM; 4 GB recommended

- All versions of the ITF software edition require the following storage capacity:
 - 2 GB for typical installation.
 - 70-700 GB for data storage depending on production data and data retention time.
 - There should be two separate hard disk drives, one for systems software and application software, and the other for data storage.

Please use the formula provided in the section, **Estimating size of required data storage**, to determine the approximate data storage capacity required.

- 48x IDE CD-ROM or better.
- 17" SVGA or higher resolution monitor (19" or 21" recommended)
- 10/100-BasedT Network Interface Card
- Tape Drive for data backup (recommended)
- Uninterruptible Power Supply (recommended)

Estimating size of required data storage

Minimum Storage Space Required	=	[Minimum disk space for Operating System + SQL Server Intelligent Test Framework Software] + [Paging Memory] [File Data + SQL DB]	
	=	3.5 GB + 1 GB + [File Data + SQL database]	
Where [File Data + SQL DB]	=	{ [Number of Testers] * [Number of board/day] * [% of defective board/day] * [Average Defective Image/board] * [File Size + SQL database record] } * [Data Retention Period in days] * [Safety Factor]	
And			
[File Size]	=	2 to 3 MB (SSM image) or 500 KB (JPEG image) for AOI-SJ/SP and 1 MB (JPEG image) for AXI	
[SQL DB record]	=	2 KB	
[Safety Factor]	=	1.05	

Software Requirements

The following are the software requirements for the ITF Server:

- Microsoft® Windows® Server 2003 Operating System (English/Chinese)
- Microsoft® SQL Server 2000 Standard Edition with Service Pack 3a (English/Chinese)
- Microsoft® Windows® Services for UNIX 3.5 (if you are using Agilent ICT UX test systems)

NOTE

If you intend to view ART in Chinese, you need to install the Chinese version of both Windows Server 2003 and SQL Server 2000.

Setting up the ITF Server

- The setup process involves the following stages:
- 1 Installing Microsoft Windows Server 2003
- **2** Installing the Display Adapter Driver (If Necessary)
- **3** Installing the Network Adapter Driver (If Necessary)
- **4** Checking Drive Assignments
- 5 Installing Microsoft SQL Server 2000 Standard Edition
- 6 Installing Microsoft SQL Server 2000 Service Pack 3a
- 7 Configuring the SQL Server
- 8 Installing Microsoft Services for UNIX 3.5
- 9 Changing the Local Security Policy for Microsoft Windows Server 2003
- **10 Installing ITF Software Components**

You will need the following items in order to complete the setup process:

- CD: Microsoft® Windows Server 2003 Standard Edition
- CD: Microsoft[®] SQL Server 2000 Standard Edition
- CD or Installation media: Microsoft® SQL Server 2000 Standard Edition SP3a
- CD or installation media: Microsoft® Windows Services for UNIX 3.5
- CD: Agilent ITF Software Solutions 3.1 Applications
- CD: Software and/or Utilities for Network Adapter and Graphics Adapter (if applicable).

Installing Microsoft Windows Server 2003

- 1 Insert the Windows® Server 2003 CD into the CD-ROM drive on the ITF Server.
- 2 When the Welcome to Microsoft Windows Server 2003 dialog box appears, click Exit and restart the computer.
- 3 When you see the words **Press any key to boot from CD**, press any key within 5 seconds to start the installation from the CD.

Wait several minutes.

- 4 At the Windows Server 2003 Standard Edition Setup dialog box, press Enter to set up Windows® Server 2003.
- **5** Read the end-user license agreement. To agree to the license and continue the installation, press **F8**.
- 6 Press **Esc** to install a fresh copy of Windows® Server 2003 without repairing.
- 7 Partition the disk space as follows:
 - **a** Press **C** to create a partition in the unpartitioned space.
 - **b** Leave the partition at the maximum size for the desired partition size, and press **Enter**.
 - **c** Repeat steps a and b, and leave the second partition at the maximum partition size.

- 8 Press Enter to set up Windows Server 2003 on the selected drive (make sure the drive c: is selected).
- **9** Press **Enter** to format the partition using the NTFS file system.
- **10** Select Format the partition using the NTFS file system, and press Enter.

Wait several minutes while the setup process copies files to the Windows Installation folder.

11 After the copying of the files is completed, press any key to restart the system or wait 15 seconds before the server automatically restarts.

During the restart, do not press any key.

12 In the Windows Server 2003 Setup Server Welcome dialog box, click Next >.

Wait several minutes while the system installs devices.

- **13** In the **Regional and Language Options** dialog box, click **Next >**.
- **14** In the **Personalize Your System** dialog box, enter the user details. If user details are not available, use the following details:

User Name: Agilent ITF Server Company Name: Agilent Preferred Customer

15 Click Next >.

- **16** In the **Your Product Key** dialog box, enter the 25-character product key located on the Windows® Server 2003 CD package, then click **Next** >.
- **17** In the **Licensing Modes** dialog box, select **Per seat**. Each connection must have its own Client Access License.

Click Next >.

18 In the **Computer Name and Administrator password** dialog box, enter the name assigned based on your company policy for the computer name and leave the Administrator password blank. If the computer name is not available, use **AITF**.

Click Next >.

- **19** In the **Date and Time Settings** dialog box, enter the date, time and time zone, and then click **Next >**. Set the time zone to your time zone.
- **20** In the Windows Server 2003 **Network Settings** dialog box, select **Typical Settings**, and click **Next** >. This keeps the default settings.

Wait several minutes while the system continues the installation process.

21 When the installation is complete, remove the CD from the CD-ROM drive and click **Finish**.

The system will restart automatically.

22 Press **Ctrl+Alt+Del** and log on to Windows Server 2003 with administrative privileges.

23 In the Windows Server 2003 Manage Your Server dialog box, select Don't display this page again on logon. Close the dialog box by clicking the button x at the top right-corner of the window.

The installation for Microsoft Windows Server 2003 Server is complete.

Installing the Display Adapter Driver (If Necessary)

If Windows® Server 2003 does not detect the display adapter driver automatically, you need to install it manually.

NOTE

Depending on your hardware specifications, you may not need to install the drivers for the display adapter and/or the network adapter.

Installing the Network Adapter Driver (If Necessary)

If Windows® Server 2003 does not detect the network adapter driver automatically, you need to install it manually.

NOTE

You may see an **Update Driver** warning. If so, click **Continue Anyway** to continue.

Checking Drive Assignments

- 1 Use Windows® Explorer to check that the following drives are present and assigned the proper drive letter on the ITF Server:
 - Local Disk (C:)
 - Data (E:)

NOTE

Sometimes, the CD-ROM drive is assigned to the drive letter "E." If this occurs, you need to reassign the CD-ROM drive to another letter and assign "E" to the Data drive.

- **2** Reassign the drives, if necessary, using the following steps.
 - a Click Start > My Computer.
 - **b** Right-click My Computer.
 - c Click Manage on the menu.
 - d Click Storage, and then double-click Disk Management.
 - e Reassign the drive letter assigned to the CD-ROM drive. Right-click anywhere inside the CD-ROM box. Select Change Drive Letter and Path. Click Change.

- **f** In the **Change Drive Letter or Path** dialog box, use the drop-down menu to assign a new drive letter to the CD-ROM drive. Click **OK**.
- **g** Click **Yes** in the confirmation dialog box.
- **h** Repeat the steps a through g to reassign the Data drive to **E**:
- i Once the Data drive has been re-assigned to E:, re-format drive E: by right-clicking drive E: and selecting Format. Make sure Perform a quick format for drive is selected, and then click OK.

Installing Microsoft SQL Server 2000 Standard Edition

1 Insert the Microsoft® SQL Server 2000 Standard Edition CD into the CD-ROM drive of the ITF Server.

The installation should start automatically. If it does not, use Windows® Explorer to browse to the CD drive and double-click the file, autorun.exe.

- 2 Click SQL Server 2000 Components.
- 3 Click Install Database Server.

NOTE

If you are installing SQL Server 2000 SP2 or below, click **Continue**. Install Service Pack 3a immediately after installation of SQL Server 2000 is completed.

- 4 In the Welcome dialog box, click Next >.
- 5 In the Computer Name dialog box, select Local Computer, and click Next >.

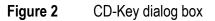
Figure 1	Computer Name dialog box	
Computer	ame	x
	Enter the name of the computer on which you want to create a new instance of SQL Server or modify an existing instance of SQL Server.	
	Or, enter the name of a new or existing Virtual SQL Server to manage.	
	Your computer name	
	C Bemote Computer C ⊻intual Server	
	Browse	
	Help < <u>B</u> ack <u>N</u> ext > Cancel	

- 6 In the Installation Selection dialog box, select Create a new instance of SQL Server, or install Client Tools, and click Next >.
- 7 In the **User Information** dialog box, enter the user details. If user details are not available, use the following:

User Name: Agilent ITF Server Company Name: Agilent Preferred Customer

- 8 Click Next >.
- **9** Read the **SQL Server 2000 Components** software agreement. If you accept the agreement, click **Yes**.

10 Enter the 25-digit CD-key listed on the SQL Server 2000 Standard Edition CD case, and click **Next** >.



Enter your 25-digit CD-Key	CD-Key
You can find this number on the yellow sticker in the CD liner notes or the CD sleeve.	Enter your 25-digit CD-Key
	You can find this number on the yellow sticker in the CD liner notes or the CD sleeve.
< <u>B</u> ack <u>N</u> ext > Cancel	

- 11 In the Installation Definition dialog box, select the Server and Client Tools, and click Next >.
- Figure 3Installation Definition dialog box



- 12 In the Instance Name dialog box, select Default, and click Next >.
- Figure 4 Instance Name dialog box

Instance Name		×
	For a default installation, leave Default checked and click Next. To install or maintain a named instance of SQL Server on this computer clear the Default checkbox and type or select an instance name. A new name must be 16 characters or less and should start with a letter or other acceptable character. For more information, click Help.	
	Help < Back Next > Canc	el

13 In the Setup Type dialog box, select Typical.

14 In the Destination Folder dialog box, leave the Program Files path as C:\Program Files\ Microsoft SQL Server.

Change the Data Files path to E:\Program Files\ Microsoft SQL Server by clicking the Browse button next to Data Files.

In **Choose Folder** dialog box, change c: in the **Path** box to E:. Click **OK** when you are done.

Figure 5Choose Folder dialog box

<u>P</u> ath:	
E: Program Files\Microsoft S0	L Server
Directories:	OK Cancel
Drives:	Network.

15 Notice the change in the Setup Type dialog box. Click Next > to continue.

Figure 6Setup Type dialog box

_	etup Type Click the type of Setu	up you prefer, then cliq	ck Next		×
C	Jypical	Installed with the mo:		. Recommended f	or most users.
¢	⊙ <u>M</u> inimum	Installed with minimu	m required options		
¢	⊂ <u>C</u> ustom	You may choose the advanced users.	options you want	to install. Recomm	ended for
Г	-Destination Folder				
	Program Files	Browse	C:\Program File	s\Microsoft SQL S	erver
	Data Files	Browse	E:\Program File	s\Microsoft SQL S	erver
L				Required:	Available:
	Space on program	files drive:		38205 K	2471560 K
	Space on system d	lrive:		182917 K	2471560 K
	Space on data files	s drive:		34432 K	14683652 K
		<u>H</u> elp	< <u>B</u> ack	<u>N</u> ext >	Cancel

- 16 In the Services Account dialog box, select Use the same account for each service. Auto start SQL Server Service. In the Service Settings box, select Use the Local System account. Click Next > when you are done.
- Figure 7 Services Account dialog box

Customize the settings fo		
C SQL <u>S</u> erver	Service Settings	System account
C SQL Server Agent	C Use a Domain	Use <u>r</u> account
	<u>U</u> sername:	Administrator
	Password:	
	<u>D</u> omain:	AITE
	Auto Start Ser	vice

17 In the Authentication Mode dialog box, select Mixed Mode (Windows Authentication and SQL Server Authentication Mode).

Enter a password for the **sa login** or select **Blank Password (not recommended)**. Then, click **Next >**.

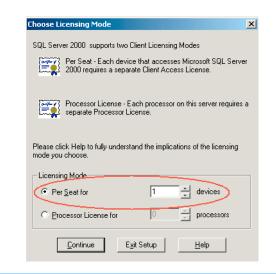
Figure 8Authentication Mode dialog box

C Windows Authent	ication Mode			
<u>Windows Admen</u>		ation and SOL	Convor Authors	instign
Mined Mode (with	dows Adthenut	auon arlu sige .	Jerver Autheni	ication
Add password for the	sa login:			
Enter password:				
	1			
Confirm password:				
🔲 Blan <u>k</u> Password (r	not recommend	led)		

18 Click **Next >** to start copying files.

19 In the **Choose Licensing Mode** dialog box, select **Per seat for** and enter **1** in the device box. Click **Continue**.

Figure 9Choose Licensing Mode dialog box



20 In the Setup Complete dialog box, click Finish.

21 Remove the SQL Server 2000 Standard Edition CD from the CD-ROM drive.

NOTE

You may see an **MS Data Access Components Setup** dialog box. Click **Next** > to continue, then click **Finish**.

Installing Microsoft SQL Server 2000 Service Pack 3a

1 Insert the SQL Server 2000 Service Pack 3a CD into the ITF Server CD-ROM drive.

The installation should start automatically. If it does not, browse to the CD drive and double-click the file, setup.bat.

Figure 10 SQL Server 2000 Service Pack 3a Setup

Cross-database ownership chaining is turned off by default in SP3. After installation, you can enable cross-database ownership chaining for individual databases. If you must use cross-database ownership chaining, select the check box below.

SP3 will upgrade Microsoft Search service and automatically rebuild all full-text catalogs for all applications using the service. During the rebuild, full-text functionality may not be fully available. Select the check tox below to continue upgrading to SP3.

Verify the following SP3 security enhancements. Click Help for more information

Enable cross-database ownership chaining for all databases (not recommended)

☑ Upgrade Microsoft Search and apply SQL Server 2000 SP3 (required).

Click Cancel to exit Setup without installing SP3.

Help

SQL Server 2000 Service Pack 3 Setu Backward Compatibility Checklist the SQL Server 2000 Service Pack 3a is located. Double-click the file, setup.bat.

- 2 Click **Next >** all the way to take the default settings.
- 3 Select Upgrade Microsoft Search and apply SQL Server 2000 SP3 (required) and click Continue.

A dialog box similar to the one shown in **Figure 11**. Click **OK** to continue.

Figure 11 Error reporting dialog box

rror repo	ting			
		ror reporting feature, S ce error report to Micro:		
		ver sends information a is stored with limited ac		
http://oca		eporting server to cont intro.asp. Microsoft use onfidential.		
For more in	formation on the er	rror reporting feature ar	nd the type of informa	ation sent, click Help
	atically send fatal e	rror reports to Microsof	t Help	OK

4 Once SQL Server 2000 Service Pack 3a has been installed, click **Finish** to restart the server.

Alternatively, if the files are stored on the network, browse using Explorer to the network location where

Continue

Cancel

Configuring the SQL Server

To optimize the performance of the SQL Server, you need to change the size of the temporary database.

To change the size of the temporary database:

- 1 Click Start > All Programs > Microsoft SQL Server > Enterprise Manager.
- 2 In the console tree, select Console Root > Microsoft SQL Servers > SQL Server Group > (local) (Windows NT).
- 3 Click Databases to expand it.
- 4 Right-click the database **tempdb**, and select **Properties**.

You will see the tempdb Properties dialog box.

5 Click the **Data Files** tab.

Figure 12 Tempdb properties - Data Files

File Name tempdev	Location	Space alloc Files\ 100	cated (Filegroup PRIMARY	
				D <u>e</u> lete
ile properties -	ally grow file			
-File growth-		Maxim	um file size	
🔿 [n megat	ytes: 1	E Unr	estricted file growth	
By perce By perce Second Sec	nt: 10	C Bes	strict file growth (MB):	101 *

- 6 Click the column under **Space allocated (MB)**, and change the default value to 100.
- 7 Click OK to save.
- 8 Right-click the database **tempdb**, and select **Properties**.

You will see the tempdb Properties dialog box.

9 Click the **Transaction Log** tab.

Figure 13 Tempdb properties - Transaction Log

emplog	C\Program Files\# 	vlicr 10	
			Delete
ile properties			
Automatically grow fi	le		
File growth		Maximum file size	
O In megabytes:	1	Unrestricted file growth	
By percent:	10	C Bestrict file growth (MB):	2
By percent:	10 +	C Bestrict file growth (MB):	2
By percent:	10 +	C Bestrict file growth (MB):	2

- **10** Click the column under **Space allocated (MB)**, and change the default value to 10.
- 11 Close the Enterprise Manager.

Installing Microsoft Services for UNIX 3.5

- 1 Press **Ctrl+Alt+Del** and log on to Windows Server 2003 with administrative privileges.
- **2** Insert the Microsoft Windows Services for UNIX 3.5 CD into the ITF Server CD-ROM drive.

The installation should start automatically. If it does not, browse to the CD drive and double-click the file, setup.exe.

- 3 In the Welcome dialog box, click Next >.
- 4 In the **Customer Information** dialog box, enter the user details. If it is not available, use the following:

User Name: Agilent ITF Server Organization: Agilent Preferred Customer

Click Next >.

5 Read the license agreement. If you accept the agreement, select **I accept the agreement**.

Click Next >.

- 6 In the Installation Options dialog box, select Standard installation, and click Next >.
- 7 At the Security Settings dialog box, make sure that Enable setuid behavior for Interix programs is not selected.

Click Next >.

- 8 Choose **Remote User Name Mapping Server**, and leave the text box blank.
- Figure 14User Name Mapping dialog box

🙀 Microsoft Windows Services for UNIX Sel	tup Wizard	_ 🗆 🗡
User Name Mapping Configure the User Name Mapping server.		B
Bemote User Name Mapping Server		
<u>Type</u> the name of the User Name Mapping ser a User Name Mapping server is not already se of the server where you plan to install User Na	t up, it is recommended that yo	
C Local User Name Mapping Server		
If you have not decided to set up a remote Us you set up User Name Mapping on this compu computer, click Next. Setup will configure Use on how you provide UNIX user and group nam	ter. To install User Name Mapp r Name Mapping to use simple	ping on this
Network Information Service	e (NIS)	
f C <u>P</u> assword and group files		
	< <u>B</u> ack <u>N</u> ext >	Cancel

Click Next >.

- 9 At the User Name Mapping dialog box, select Remote User Name Mapping Server, then click Next >.
- **10** Wait several minutes for the installation to complete.

Click Finish when done.

11 Remove the Microsoft Windows Services for UNIX 3.5 CD from the CD-ROM drive of the ITF Server.

- 12 Click Yes to restart the ITF Server.
- **13** Press **Ctrl+Alt+Del** and log on to Windows Server 2003 with administrative privileges.
- 14 Click Start > Control Panel.
- 15 Double-click Administrative Tools.
- 16 Double-click Services.
- **17** In the list of services, right-click **Server for NFS** and click **Properties** on the menu.
- Figure 15 Services Server for NFS

Services						
Action View 🛛 🖛 =) 🖹 🖪 🖪 🕼	😭] 🕨		·		
Tree	Name 🛆	Description	Status	Startup Type	Log On As	
Services (Local)	🖓 Print Spooler	Loads files	Started	Automatic	LocalSystem	
	Protected Storage	Provides pr	Started	Automatic	LocalSystem	
	QoS RSVP	Provides n		Manual	LocalSystem	
	Remote Access Aut	Creates a		Manual	LocalSystem	
	Remote Access Con	Creates a	Started	Manual	LocalSystem	
	Remote Procedure	Provides th	Started	Automatic	LocalSystem	
	Remote Procedure	Manages t		Manual	LocalSystem	
	Remote Registry Se	Allows rem	Started	Automatic	LocalSystem	
	Remote Shell Service	Enables ru		Disabled	LocalSystem	
	Removable Storage	Manages r	Started	Automatic	LocalSystem	
	Routing and Remot	Offers rout		Disabled	LocalSystem	
	RunAs Service	Enables st	Started	Automatic	LocalSystem	
	Security Accounts	Stores sec	Started	Automatic	LocalSystem	
	Server	Provides R	Started	Automatic	LocalSystem	
	Server for NFS	Enables a		Disabled	LocalSystem	
	Simple Mail Transpo	Transports	Started	Automatic	LocalSystem	
	Smart Card	Manages a		Manual	LocalSystem	
	Smart Card Helper	Provides s		Manual	LocalSystem	
	System Event Notifi	Tracks syst	Started	Automatic	LocalSystem	
	Task Scheduler	Enables a	Started	Automatic	LocalSystem	
	TCP/IP NetBIOS Hel	Enables su	Started	Automatic	LocalSystem	-

- **18** On the **General** tab, find the **Startup type**. Select **Automatic** from the drop-down menu. Click **Apply**.
- Figure 16Server for NFS Properties General tab

General Log On	Recovery Dependencies
Service name:	NfsSvc
Display <u>n</u> ame:	Server for NFS
Description:	Enables a Windows based computer to act as an NFS :
Pat <u>h</u> to executat C:\WINNT\Syst	ile: em32\nfssvc.exe
Startup typ <u>e</u> :	Disabled 💌
Service status:	Manual Disabled Stopped
<u>S</u> tart	Stop <u>P</u> ause <u>B</u> esume
You can specify from here.	the start parameters that apply when you start the service
orair haid <u>M</u> ereis	
	OK Cancel Apply

19 Under the **Service Status** section of the **General** tab, click **Start**.

Figure 17 Server for NFS Properties - Service status

Server for NFS Prop	perties (Local Computer)	? ×
General Log On	Recovery Dependencies	
Service name:	Nfs5vc	
Display <u>n</u> ame:	Server for NFS	
Description:	Enables a Windows based computer to act as an NF	5 :
Pat <u>h</u> to executable C:\WINNT\Syste		
Startup typ <u>e</u> :	Automatic	•
Service status:	Stopped	
<u>S</u> tart	Stop <u>P</u> ause <u>H</u> esume	
You can specify th from here.	e start parameters that apply when you start the servic	•
Start parameters:		-
	OK Cancel App	dy

20 Click OK to close the dialog box.

Changing the Local Security Policy for Microsoft Windows Server 2003

To mount a UNIX system volume to Microsoft Windows Server 2003, you need to do the following:

- **1** Log on to the ITF Server with administrative privileges.
- 2 Click Start > All Programs > Administrative Tools > Local Security Policy.
- 3 Change the setting for Network access: Let Everyone permission apply to anonymous users to Enabled. See Figure 18.
- **4** Restart the ITF Server.

Figure 18	Local Security	/ Settings	dialog box

ile <u>A</u> ction ⊻iew <u>H</u> elp			
· → 🗈 🖬 × 🗗 🖧 😫			
Security Settings	Policy A	Security Setting	
- 📴 Account Policies	Interactive logon: Message text for users attempting to log on		
- 📴 Local Policies	Interactive logon: Message title for users attempting to log on	Not Defined	
🗄 🧕 Audit Policy	Interactive logon: Number of previous logons to cache (in case domain controller is not available)	10 logons	
User Rights Assignment	Interactive logon: Prompt user to change password before expiration	14 days	
Security Options	B Interactive logon: Require Domain Controller authentication to unlock workstation	Disabled	
Public Key Policies	Bill Interactive logon: Require smart card	Disabled	
Software Restriction Policies	B Interactive logon: Smart card removal behavior	No Action	
lP Security Policies on Local Computer	Microsoft network client: Digitally sign communications (always)	Disabled	
	Bill Microsoft network client: Digitally sign communications (if server agrees)	Enabled	
	Microsoft network client: Send unencrypted password to third-party SMB servers	Disabled	
	Microsoft network server: Amount of idle time required before suspending session	15 minutes	
	Microsoft network server: Digitally sign communications (always)	Disabled	
	Big Microsoft network server: Digitally sign communications (if client agrees)	Disabled	
	Microsoft network server: Disconnect clients when logon hours expire	Enabled	
	Network access: Allow anonymous SID/Name translation	Disabled	
	Wetwork access: Do not allow anonymous enumeration of SAM accounts	Enabled	
	Network access: Do not allow anonymous enumeration of SAM accounts and shares	Disabled	
	Network access: Do not allow storage of credentials or .NET Passports for network authentication		
	Network access: Let Everyone permissions apply to anonymous users	Enabled	
	Network access: Named Pipes that can be accessed anonymously	COMNAP, COMNOD	
	Network access: Remotely accessible registry paths	System\CurrentCon	
	Network access: Remotely accessible registry paths and sub-paths	System\CurrentCon	
	Network access: Restrict anonymous access to Named Pipes and Shares	Enabled	
	Network access: Shares that can be accessed anonymously	COMCFG,DFS\$	
	Network access: Sharing and security model for local accounts	Classic - local users	
	Network security: Do not store LAN Manager hash value on next password change	Disabled	
	BONetwork security: Force logoff when logon hours expire	Disabled	
	BNetwork security: LAN Manager authentication level	Send NTLM respons	
	Network security: LDAP client signing requirements	Negotiate signing	
	BBNetwork security: Minimum session security for NTLM SSP based (including secure RPC) clients	No minimum	
	Network security: Minimum session security for NTLM SSP based (including secure RPC) servers	No minimum	
	Recovery console: Allow automatic administrative logon	Disabled	
	Recovery console: Allow floppy copy and access to all drives and all folders	Disabled	
	B Shutdown: Allow system to be shut down without having to log on	Disabled	
	Shutdown: Clear virtual memory pagefile	Disabled	
	System cryptography: Force strong key protection for user keys stored on the computer	Not Defined	
	System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing	Disabled	
	System objects: Default owner for objects created by members of the Administrators group	Administrators group	
	System objects: Require case insensitivity for non-Windows subsystems	Enabled	
	System objects: Strengthen default permissions of internal system objects (e.g. Symbolic Links)	Enabled	
	System settings: Optional subsystems	Posix	
	System settings: Use Certificate Rules on Windows Executables for Software Restriction Policies	Disabled	

Installing ITF Software Components

NOTE

See Chapter 2, **Installing the ITF Server**, of the *ITF Software Solutions Setup Guide* for information on installing the ITF Software Components.