Tivoli Software Distribution Release Notes, Version 3.6.2

Copyright Notice

© Copyright IBM Corporation. 2000. All rights reserved. May only be used pursuant to a Tivoli Systems Software License Agreement, an IBM Software License Agreement, or Addendum for Tivoli Products to IBM Customer or License Agreement. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual, or otherwise, without prior written permission of IBM Corporation. IBM Corporation grants you limited permission to make hardcopy or other reproductions of any machine-readable documentation for your own use, provided that each such reproduction shall carry the IBM Corporation copyright notice. No other rights under copyright are granted without prior written permission of IBM Corporation. The document is not intended for production and is furnished "as is" without warranty of any kind. All warranties on this document are hereby disclaimed including the warranties of merchantability and fitness for a particular purpose.

U.S. Government Users Restricted Rights—Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corporation.

Trademarks

IBM, the IBM logo, Tivoli, the Tivoli logo, AIX, OS/2, Tivoli Management Environment, and TME 10 are trademarks or registered trademarks of International Business Machines Corporation or Tivoli Systems Inc. in the United States, other countries, or both. In Denmark, Tivoli is a trademark licensed from Kjøbenhavns Sommer - Tivoli A/S.

Microsoft, Microsoft Office, Windows, Windows NT, and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Java, all Java-based trademarks, and Solaris are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

NetWare and Novell are trademarks of Novell, Incorporated.

HP-UX is a registered trademark of Hewlett-Packard Company.

Other company, product, and service names mentioned in this document may be trademarks or servicemarks of others.
Notices
References in this publication to Tivoli Systems or IBM products, programs, or services do not imply that they will be available in all countries in which Tivoli Systems or IBM operates. Any reference to these products, programs, or services is not intended to imply that only Tivoli Systems or IBM products, programs, or services can be used. Subject to valid intellectual property or other legally protectable right of Tivoli Systems or IBM, any functionally equivalent product, program, or service can be used instead of the referenced product, program, or service. The evaluation and verification of operation in conjunction with other products, except those expressly designated by Tivoli Systems or IBM, are the responsibility of the user.

Tivoli Systems or IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the IBM Director of Licensing, IBM Corporation, North Castle Drive, Armonk, New York 10504-1785, U.S.A.

ISO 9001 Certification
This product was developed using an ISO 9001 certified quality system.

Certification has been awarded by the Bureau Veritas Quality International (BVQI) (Certification No. BVQI - 92086 / A).

BVQI is a word leader in quality certification and is currently recognized by more than 20 accreditation bodies.
Contents

Additional Information ........................................................................................................4
New Features in Version 3.6.2 ...........................................................................................5
System Requirements .........................................................................................................6
  Web Browsers ...................................................................................................................6
  Hardware Requirements .................................................................................................6
    Tivoli Software Distribution Servers ........................................................................7
    Tivoli Software Distribution Gateways ......................................................................7
    Tivoli Software Distribution Extension API ...........................................................8
    AutoPack Control Center and Agent .......................................................................8
Installation Notes ..........................................................................................................9
  Installation Prerequisites ............................................................................................9
  Installation Summary ....................................................................................................9
  Installing the English Version 3.6.2 Patch ...............................................................10
    Installing from the Desktop .......................................................................................10
    Installing from the Command Line .........................................................................12
    Installing from the Desktop .......................................................................................13
    Installing from the Command Line .........................................................................14
  Installing the AutoPack Control Center, Version 3.6.2 Patch ................................15
    Installing the English Version of AutoPack Control Center ................................15
    Installing a Language Support Pack for AutoPack Control Center .........16
Patches Included in Version 3.6 ....................................................................................17
  Patches Installed on Version 3.6.2 .............................................................................17
  Patches Included in Version 3.6.2 .............................................................................18
  Patches Included in Version 3.6.1 .............................................................................18
Defects Fixed ...................................................................................................................18
  Defect Fixed by Installing the 3.6.2-COU-0020 Patch .............................................19
  Defect Fixed by Installing the 3.6.2-COU-0019 Patch .............................................20
  Defects Fixed by Installing the 3.6.2-COU-0018 Patch ............................................20
  Defects Fixed by Installing the 3.6.2-COU-0017 Patch ............................................21
Defect Fixed by Installing the 3.6.2-COU-0015 Patch ...........................................22
Defects Fixed by Installing the 3.6.2-COU-0014 Patch ........................................22
Defects Fixed by Installing the 3.6.2-COU-0012 Patch ........................................23
Defects Fixed by Installing the 3.6.2-COU-0011 Patch ........................................24
Defects Fixed by Installing the 3.6.2-COU-0009 Patch ........................................28
Defects Fixed by Installing the 3.6.2-COU-0008 Patch ........................................28
Defects Fixed by Installing the 3.6.2-COU-0007 Patch ........................................30
Defects Fixed by Installing the 3.6.2-COU-0006 Patch ........................................31
Defect Fixed by Installing the 3.6.2-COU-0005 Patch ........................................32
Defects Fixed by Installing the 3.6.2-COU-0004 Patch ........................................32
Defects Fixed by Installing the 3.6.2-COU-0003 Patch ........................................32
Defects Fixed by Installing the 3.6.2-COU-0002 Patch ........................................38
Defects Fixed in Version 3.6.2...........................................................................38
Defects Fixed by Installing the Framework, Version 3.6.2.................................47
Defects Fixed by Installing a Framework Patch ................................................52
Defects Fixed in Version 3.6.1...........................................................................58
Known Defects, Limitations, and Workarounds ...................................................61
Defects, Limitations, and Workarounds in Version 3.6.2......................................61
Known Documentation Defects............................................................................74
-known Documentation Defects in Version 3.6.2 ..............................................74
Other Documentation Changes ............................................................................82
Known Framework Defects Impacting Software Distribution .............................84
Software Distribution for AS/400 Endpoints ......................................................85
Installation Prerequisites ....................................................................................85
Object Packaging Utility for AS/400 ...............................................................86
 Installing the Object Packaging Utility .........................................................87
 Uninstalling the Tivoli Object Packaging Utility, Version 3.6.2 ....................88
Defects Fixed .....................................................................................................88
 Defect Fixed in Version 3.6.2...........................................................................88
 Defect Fixed in Version 3.6.1...........................................................................88
Known Defect Limitations, and Workarounds ..................................................89
Defects, Limitations, and Workarounds in Version 3.6.2 ..................89
Defects, Limitations, and Workarounds in Version 3.6.1 ...............90
Known Documentation Defects ..........................................................91
Known Documentation Defects in Version 3.6.2.................................91
Other Documentation Changes............................................................94
Product Notes ....................................................................................95
Setting Dependencies for CLIs on Endpoints ........................................95
Setting Dependencies for bash Scripts on Windows NT Endpoints ....96
Setting Dependencies for User-defined Scripts and Programs .............97
Associating Dependencies with Software Distribution Methods ..........97
Release Notes

This Release Notes document provides important information about Tivoli Software Distribution, Version 3.6.2. These notes are the most current information for the product and take precedence over all other documentation.

You will notice that both Tivoli and TME 10 are used in our sales, marketing, and product information materials. These terms are interchangeable. We will be removing references to TME 10 in future product releases.

The following table lists changes made to these Release Notes after the first version was published on November 10, 1999.

<table>
<thead>
<tr>
<th>Revised on</th>
<th>Content Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 27, 2000</td>
<td>Added new section entitled “Defect Fixed by Installing the 3.6.2-COU-0020 Patch” on page 19</td>
</tr>
<tr>
<td>October 16, 2000</td>
<td>Added new section entitled “Defect Fixed by Installing the 3.6.2-COU-0019 Patch” on page 20</td>
</tr>
</tbody>
</table>
| September 26, 2000| ■ Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0018 Patch” on page 20  
<p>|                  | ■ Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0017 Patch” on page 21 |</p>
<table>
<thead>
<tr>
<th>Revised on</th>
<th>Content Changes</th>
</tr>
</thead>
</table>
| August 25, 2000 | - Added new section entitled “Defect Fixed by Installing the 3.6.2-COU-0015 Patch” on page 22  
- Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0014 Patch” on page 22 |
| July 25, 2000 | - Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0012 Patch” on page 23  
- Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0011 Patch” on page 24 |
| June 14, 2000 | - Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0009 Patch” on page 28  
- Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0008 Patch” on page 28 |
| May 12, 2000  | - Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0007 Patch” on page 30  
- Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0006 Patch” on page 31 |
| May 2, 2000   | - Added new section entitled “Defect Fixed by Installing the 3.6.2-COU-0005 Patch” on page 32.  
- Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0004 Patch” on page 32. |
These Release Notes include the following topics:

- Additional Information
- New Features in Version 3.6.2
- System Requirements
- Installation Notes
- Patches Included in Version 3.6
- Defects Fixed
- Known Defects, Limitations, and Workarounds
- Known Framework Defects Impacting Software Distribution
- Known Documentation Defects
- Software Distribution for AS/400 Endpoints

---

<table>
<thead>
<tr>
<th>Revised on</th>
<th>Content Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Added new section entitled “Defects Fixed by Installing the 3.6.2-COU-0002 Patch” on page 38.</td>
</tr>
<tr>
<td></td>
<td>Moved APAR IY01878 from “Known Defects, Limitations, and Workarounds” section to “Defects Fixed by Installing the Framework, Version 3.6.2” on page 47.</td>
</tr>
<tr>
<td></td>
<td>Added the following defects to the section “Defects Fixed by Installing a Framework Patch” on page 52:</td>
</tr>
<tr>
<td></td>
<td>• IY01878</td>
</tr>
<tr>
<td></td>
<td>• IY02505</td>
</tr>
<tr>
<td></td>
<td>• IY02895</td>
</tr>
<tr>
<td></td>
<td>• IY03187</td>
</tr>
<tr>
<td></td>
<td>• IY03556</td>
</tr>
<tr>
<td></td>
<td>These defects are fixed by installing the 3.6.1-TMF-060 patch.</td>
</tr>
</tbody>
</table>
Additional Information

- Product Notes

Additional Information

If you are entitled to Tivoli customer support, you can find frequently updated information about configuring and using Tivoli products from the Tivoli Customer Support home page at http://www.tivoli.com/support/. This site includes the following links:

- Updated versions of these Release Notes:
  http://www.tivoli.com/support/Prodman/html/RN.html
- Updated versions of the Tivoli documentation:
  http://www.tivoli.com/support/documents/
- Searchable support databases:
- Access to product patches:
  http://www.tivoli.com/support/patches/
- Access to training schedules:
  http://www.tivoli.com/services/education/
- Access to the Tivoli documentation survey:
  http://www.tivoli.com/support/survey/

Visit the Tivoli Customer Support site for this information and additional customer services. These URLs require a password and ID. If you do not have access privileges or are unsure of your ID or password, send e-mail to Customer_Support_Web_Registration@tivoli.com. Include your name and your company name in this correspondence.

You can order additional copies of product documentation by sending e-mail or calling one of the following locations:

- U.S. Customer E-mail: swdist@tivoli.com
- U.S. Telephone: 1-800-879-2755
- Canada Telephone: 1-800-426-4968
- International Telephone: (770) 863-1234

Please provide the title and version number of the document that you are ordering.

PDF files of the product manuals are available on the product CD-ROM.
New Features in Version 3.6.2

This section briefly describes changes and enhancements made to Version 3.6 of Tivoli Software Distribution.

- The following additional platforms are now supported for Software Distribution endpoints:
  - Windows 2000
    
    **Note:** Tivoli Systems has verified the operation of this product on a prerelease version of the U.S. Microsoft Windows 2000 operating system. However, support of Tivoli products operating on Windows 2000 will not begin until testing is complete on the general availability version of Windows 2000. Any revisions to the operational procedures that might be required following the general availability of Windows 2000 in each country will be documented in an online update of these release notes. The online update of these release notes will be posted on the Tivoli Customer Support Web site. See “Additional Information” on page 4 for the URL of this Web site.
  - NetWare 5.0
    
    **Note:** For NetWare 3.x or 4.x, Tivoli products are not supported on NetWare systems running the SFT III high-availability configuration or the SMP (Symmetric Multi Processor) add-on package.
  - OS/2 Warp Server for e-business
  - Solaris 7.0
The following platforms remain at the Version 3.6.1 level. They are not contained on the Version 3.6.2 CD-ROM.

- Digital UNIX
- DG/UX
- NCR
- Pyramid
- Sequent
- SCO
- SGI
- Solaris Intel

System Requirements

This section contains information about additional software requirements for Software Distribution beyond those described for the Tivoli Framework. For the list of currently supported platforms, see “Other Documentation Changes” on page 82.

Web Browsers

To access the UserLink for Tivoli Software Distribution web pages, Tivoli recommends a Web browser that supports HTML 3.0 and Java 1.0. You can access the UserLink web interface with Netscape 3.x or 4.x and Microsoft Internet Explorer 3.x, 4.x and 5.x.

Tivoli products that support Windows®, Windows 95, Windows NT®, Windows 98, Windows 2000, OS/2, and NetWare must be installed on an IBM PC AT-compatible machine. Tivoli does not support platforms (such as the NEC PC 98xx series) that are not 100% compatible with the IBM PC AT.

Hardware Requirements

The following tables provide the client and server disk space required for the Software Distribution application for each supported platform. The estimated disk space includes space for the Tivoli binaries (bin), server database (DB), client DB, manual pages, and message catalogs. They also provide disk requirements for the extension API, AutoPack.
Control Center, and AutoPack agent. This space is required in addition to the space needed for the Framework.

**Tivoli Software Distribution Servers**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Binaries</th>
<th>Database</th>
<th>Man Pages</th>
<th>Message Catalogs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX 4.x</td>
<td>5.96 MB</td>
<td>0.01 MB</td>
<td>0.13 MB</td>
<td>0.14 MB</td>
</tr>
<tr>
<td>HP-UX 10.x or HP-UX 11.x</td>
<td>9.08 MB</td>
<td>0.04 MB</td>
<td>0.13 MB</td>
<td>0.14 MB</td>
</tr>
<tr>
<td>Windows NT 3.5.1 or Windows NT 4.0</td>
<td>6.55 MB</td>
<td>0.01 MB</td>
<td>0.21 MB</td>
<td>0.14 MB</td>
</tr>
<tr>
<td>Solaris</td>
<td>4.90 MB</td>
<td>0.01 MB</td>
<td>0.13 MB</td>
<td>0.14 MB</td>
</tr>
<tr>
<td>SunOS</td>
<td>6.15 MB</td>
<td>0.01 MB</td>
<td>0.13 MB</td>
<td>0.14 MB</td>
</tr>
</tbody>
</table>

a. Installing the Tivoli Software Distribution Historical Database adds 0.01 MB to the binaries space requirement for each interpreter type.

b. Installing the Tivoli Software Distribution TEC Integration component adds 0.01 MB to the database space requirement for each interpreter type.

**Tivoli Software Distribution Gateways**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Binaries</th>
<th>Man Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX 4.x</td>
<td>5.18 MB</td>
<td>0.13 MB</td>
</tr>
<tr>
<td>HP-UX 10.x or HP-UX 11.x</td>
<td>5.18 MB</td>
<td>0.13 MB</td>
</tr>
<tr>
<td>Windows NT 3.5.1 or Windows NT 4.0</td>
<td>5.18 MB</td>
<td>0.21 MB</td>
</tr>
<tr>
<td>Solaris</td>
<td>5.18 MB</td>
<td>0.13 MB</td>
</tr>
</tbody>
</table>
System Requirements

<table>
<thead>
<tr>
<th>Platform</th>
<th>Binaries</th>
<th>Man Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>SunOS</td>
<td>5.18 MB</td>
<td>0.13 MB</td>
</tr>
<tr>
<td>OS/2</td>
<td>5.18 MB</td>
<td>0.13 MB</td>
</tr>
</tbody>
</table>

Tivoli Software Distribution Extension API

<table>
<thead>
<tr>
<th>Platform</th>
<th>Libraries</th>
<th>Header Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX 4.x</td>
<td>0.35 MB</td>
<td>0.38 MB</td>
</tr>
<tr>
<td>HP-UX 10.x or HP-UX 11.x</td>
<td>0.21 MB</td>
<td>0.38 MB</td>
</tr>
<tr>
<td>Windows NT 3.5.1 or Windows NT 4.0</td>
<td>0.42 MB</td>
<td>0.39 MB</td>
</tr>
<tr>
<td>Solaris</td>
<td>0.20 MB</td>
<td>0.38 MB</td>
</tr>
<tr>
<td>SunOS</td>
<td>0.18 MB</td>
<td>0.38 MB</td>
</tr>
</tbody>
</table>

AutoPack Control Center and Agent

<table>
<thead>
<tr>
<th>Platform</th>
<th>ACC Binaries</th>
<th>Agent Binaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows NT 3.5.1 or Windows NT 4.0 or Windows 2000</td>
<td>1.74 MB</td>
<td>0.17 MB</td>
</tr>
<tr>
<td>Windows 98 or Windows 95</td>
<td>1.67 MB</td>
<td>0.17 MB</td>
</tr>
<tr>
<td>Windows 3.x</td>
<td>1.65 MB</td>
<td>0.17 MB</td>
</tr>
</tbody>
</table>

Version 3.6.2
Installation Notes

This section summarizes the procedure, including prerequisite steps, for installing Software Distribution. This section also documents changes that have occurred since the Tivoli Software Distribution User’s Guide, Version 3.6, was published.

Installation Prerequisites

Satisfy the following requirements before installing Tivoli Software Distribution, Version 3.6.2:

- Tivoli Framework, Version 3.6.1, must be installed in your Tivoli Management Region (TMR).
- Tivoli Software Distribution, Version 3.6 or Tivoli Software Distribution, Version 3.6.1, must be installed in your TMR.


Installation Summary


The Software Distribution program files are installed in several directories under the Tivoli directory structure, $BINDIR, which is created when you install the Tivoli Management Framework. $DBDIR is the object database directory, which is also created during the installation of the Tivoli Management Framework.

You can install Tivoli Software Distribution, Version 3.6.2 through the desktop or the command line. The instructions for installing the various components of Tivoli Software Distribution, Version 3.6.2 are listed below:

- “Installing the English Version 3.6.2 Patch” on page 10
Installing the English Version 3.6.2 Patch

The following sections describe how to install the English version of the Tivoli Software Distribution, Version 3.6.2 patch, from either the Tivoli desktop or command line. The Tivoli Software Distribution, Version 3.6.2 patch upgrades the Version 3.6 or Version 3.6.1 products to the Version 3.6.2 product.

Installing from the Desktop

To install the English version of the Tivoli Software Distribution, Version 3.6.2 patch from the desktop, perform the following steps:

1. Insert the Tivoli Software Distribution, Version 3.6.2 CD-ROM.
2. Display the TME Desktop for Administrator dialog and select Install Patch from the Desktop menu. The Install Patch dialog appears.
3. Click Select Media. The File Browser dialog appears with the Path Name field containing the CD-ROM path.
4. Select Courier and then Upgrade from the Directories list.
5. Click Set Media & Close to save the new media path and return to the Install Patch dialog.
6. Select a Tivoli Software Distribution product from the Select Patch to Install list. The Software Distribution products include the following:
   - TME 10 Software Distribution, upgrade to Version 3.6.2.
     Install this product component on your TMR server and on any managed nodes where you will create Software Distribution profiles or you will run Software Distribution commands from the command line.
Installation Notes

- **TME 10 Extension API, upgrade to Version 3.6.2.** Install this product component on your TMR server and on any managed nodes to enable the customization of Software Distribution using the TME 10 Application Development Environment (ADE).

- **TME 10 Software Distribution Gateway, upgrade to Version 3.6.2.** Install this product component on all managed nodes that you will configure as endpoint gateways.

- **TME 10 Software Distribution TEC Integration, upgrade to Version 3.6.2.** Install this product component to enable Software Distribution to send events to the Tivoli Enterprise Console’s event server. You must have the Tivoli Enterprise Console Server product installed prior to installing this component. Install the Software Distribution TEC Integration product on one or more events servers in your TMR. Note that only secure events are sent from the Software Distribution TEC Integration product.

- **TME 10 Software Distribution Historical Database, upgrade to Version 3.6.2.** Install this product component on the TMR server to install and enable the Historical Database feature. You must have the TME 10 Inventory product installed prior to installing this component.

7. Select the clients on which you want to install the product from the Available Clients list. The selected clients are moved to the Clients to Install On list.

8. Click **Install & Close** to install the patch and close the Install Product dialog
   -OR-
   Click **Install** to install the patch and keep the Install Product dialog open. The installation process prompts you with a Patch Install dialog. The dialog provides the list of operations that take place when installing the software and warns you of any problems that you may want to correct before installing.

9. Click **Continue Install** to begin the installation process. The Product Install dialog displays status information as the installation
process proceeds. When the installation is complete, the Product Install dialog displays a message.

10. Click **Close** to close the dialog.

#### Installing from the Command Line

**Note:** Before running the `wpatch` command, you must set up the Tivoli environment running the `setup _env` command.

To install the English version of the Tivoli Software Distribution, Version 3.6.2 patch from the command line, enter the following command from the current CD-ROM drive:

```
wpacth -c <drive>/courier/upgrade -i <product index> <managed node>
```

**where:**

- `-c <drive>/courier/upgrade`  
  Specifies the complete path to the CD-ROM image.

- `-i <product index>`  
  Specifies the product index file corresponding to the product component you want to install. You can specify one of the following values:

<table>
<thead>
<tr>
<th>Components</th>
<th>Index Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Software Distribution</td>
<td>COURIERU.IND</td>
</tr>
<tr>
<td>Tivoli Software Distribution Gateway</td>
<td>COURLCFU.IND</td>
</tr>
<tr>
<td>Tivoli Software Distribution TEC Integration</td>
<td>COURTECU.IND</td>
</tr>
<tr>
<td>Tivoli Software Distribution Extension API</td>
<td>COURADEU.IND</td>
</tr>
<tr>
<td>Tivoli Software Distribution Historical Database</td>
<td>COURDBU.IND</td>
</tr>
</tbody>
</table>

**managed node**
Specifies the managed node on which to install the patch. If you do not specify a managed node, the product is installed on all clients.

**Installing a Language Support Pack for Version 3.6.2**

The following sections describe how to install a language support pack for Tivoli Software Distribution, Version 3.6.2, from either the desktop or command line.

### Installing from the Desktop

To install a language support pack for Tivoli Software Distribution, Version 3.6.2, perform the following steps:

1. Insert the Tivoli Software Distribution, Version 3.6.2 CD-ROM.
2. Display the TME Desktop for Administrator dialog and select **Install Product** from the Desktop menu. The Install Product dialog appears.
3. Click **Select Media**. The File Browser dialog appears with the **Path Name** field containing the CD-ROM path.
4. Select **Courier → NLS** from the Directories list.
5. Click **Set Media & Close** to save the new media path and return to the Install Product dialog.
6. Select the language version you want to install from the Select Product to Install list.
7. Select the clients on which you want to install the product from the Available Clients list. The selected clients are moved to the Clients to Install On list.
8. Click **Install & Close** to install the product and close the Install Product dialog
   -OR-
   Click **Install** to install the product and keep the Install Product dialog open. The installation process prompts you with a Product Install dialog. The dialog provides the list of operations that take place when installing the software and warns you of any problems
Installation Notes

that you may want to correct before installing.

9. Click **Continue Install** to begin the installation process. The Product Install dialog displays status information as the installation process proceeds. When the installation is complete, the Product Install dialog displays a message.

10. Click **Close** to close the dialog.

**Installing from the Command Line**

**Note:** Before running the `wpatch` command, you must set up the Tivoli environment running the `setup_env` command.

To install a language support pack of Tivoli Software Distribution, Version 3.6.2 from the command line, enter the following command from the current CD-ROM drive:

```
winstall -c <drive>/courier/nls/ -i <product index> <managed node>
```

where:

- `c <drive>/courier/nls/` Specifies the complete path to the CD-ROM image.

- `i <product index>` Specifies the product index file corresponding to the product component you want to install. You can specify one of the following values:

<table>
<thead>
<tr>
<th>Tivoli Software Distribution, Version 3.6.2 Language Support Packs</th>
<th>Index Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>[zh_CN] Simplified Chinese</td>
<td>COU_ZHCN.IND</td>
</tr>
<tr>
<td>[ko] Korean</td>
<td>COU_KO.IND</td>
</tr>
<tr>
<td>[it] Italian</td>
<td>COU_IT.IND</td>
</tr>
<tr>
<td>[de] German</td>
<td>COU_DE.IND</td>
</tr>
<tr>
<td>[ja] Japanese</td>
<td>COU_JA.IND</td>
</tr>
</tbody>
</table>
<managed node>

Specifies the managed node on which to install the product. If you do not specify a managed node, the product is installed on all clients.

Installing the AutoPack Control Center, Version 3.6.2 Patch

The following sections explain how to install both the English version and the language support packs of the AutoPack Control Center, Version 3.6.2 on the following operating systems:

- Windows 2000
- Windows 98
- Windows NT
- Windows 95
- Windows 3.1

Installing the English Version of AutoPack Control Center

To install the English version of the AutoPack Control Center, perform the following steps:

1. Insert the Tivoli Software Distribution, Version 3.6.2 CD-ROM.
2. Start the Run dialog.
   - From Windows 3.1, select Run from the File menu. The Run
Installation Notes

dialog appears.

3. Enter `X:\autopack\cdrom\setup.exe` in the **Open** field, where `X:` is the CD-ROM drive letter.

4. Click **OK** to run the setup program and display the Welcome dialog for the AutoPack Control Center. The setup program leads you through the AutoPack Control Center, Version 3.6.2 installation. Use the **Back**, **Next**, or **Cancel** buttons to navigate through these option dialogs.

During the installation process the following message appears if you have already installed **Autopack.ini** on your machine:

A previous AUTOPACK.INI file has been found in the Windows directory.

Do you want to overwrite it with the default version?

It is recommended to replace **Autopack.ini** with the most up-to-date version of the file, but note that if you have previously modified it, you must reapply the modifications by hand.

**Note:** To install the English version of the Autopack Control Center on endpoints that do not have a CD-ROM drive, copy the contents of the following directories to three diskettes and install the code from the diskettes:

```
<cd-rom>\autopack\disk1
<cd-rom>\autopack\disk2
<cd-rom>\autopack\disk3
```

### Installing a Language Support Pack for AutoPack Control Center

To install a language support pack of the AutoPack Control Center, perform the following steps:

1. Insert the Tivoli Software Distribution, Version 3.6.2 CD-ROM.

2. Start the Run dialog.
   - From Windows 2000, Windows NT, Windows 95, or Windows 98, select **Start**→**Run**. The Run dialog appears.
   - From Windows 3.1, select **Run** from the File menu. The Run dialog appears.

3. Enter `X:\autopack\nls\cdrom\setup.exe` in the **Open** field, where
X: is the CD-ROM drive letter.

4. Click OK. The Language Support dialog appears.
5. Select Next. The Choose Destination Location dialog appears.
7. Select the language version you want to install from the Components list and click Next. The Program Folder dialog appears.
8. Enter the name of the program folder in the Program Folder field.
9. Click Next to begin the installation process. An Information installation dialog displays status information as the installation proceeds.
10. Click OK when the installation has completed.

Patches Included in Version 3.6

The following sections list the patches incorporated into each maintenance release provided for Tivoli Software Distribution, Version 3.6.

Patches Installed on Version 3.6.2

The following patches should be installed on Tivoli Software Distribution, Version 3.6.2:

<table>
<thead>
<tr>
<th>3.6.2-COU-0002</th>
<th>3.6.2-COU-0011</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6.2-COU-0003</td>
<td>3.6.2-COU-0012</td>
</tr>
<tr>
<td>3.6.2-COU-0004</td>
<td>3.6.2-COU-0014</td>
</tr>
<tr>
<td>3.6.2-COU-0005</td>
<td>3.6.2-COU-0015</td>
</tr>
<tr>
<td>3.6.2-COU-0006</td>
<td>3.6.2-COU-0017</td>
</tr>
<tr>
<td>3.6.2-COU-0007</td>
<td>3.6.2-COU-0018</td>
</tr>
</tbody>
</table>
Defects Fixed

### Patches Included in Version 3.6.2

The following patches have been incorporated into Tivoli Software Distribution, Version 3.6.2:

<table>
<thead>
<tr>
<th>3.6.2-COU-0008</th>
<th>3.6.2-COU-0009</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6.2-COU-0019</td>
<td>3.6.2-COU-0020</td>
</tr>
</tbody>
</table>

### Patches Included in Version 3.6.1

The following patches have been incorporated into Tivoli Software Distribution, Version 3.6.1:

<table>
<thead>
<tr>
<th>3.6.1-COU-0002</th>
<th>3.6.1-COU-0003</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6.1-COU-0009</td>
<td>3.6.1-COU-0011</td>
</tr>
<tr>
<td>3.6.1-COU-0004</td>
<td>3.6.1-COU-0012</td>
</tr>
<tr>
<td>3.6.1-COU-0005</td>
<td>3.6.1-COU-0013</td>
</tr>
<tr>
<td>3.6.1-COU-0006</td>
<td>3.6.1-COU-0014</td>
</tr>
<tr>
<td>3.6.1-COU-0007</td>
<td>3.6.1-COU-0015</td>
</tr>
<tr>
<td>3.6.1-COU-0008</td>
<td>3.6.1-COU-0016</td>
</tr>
</tbody>
</table>

### Defects Fixed

The following sections list the defects fixed during each maintenance release of Tivoli Software Distribution, Version 3.6. The APAR number...
Defects Fixed by Installing the 3.6.2-COU-0020 Patch

Defects fixed in the 3.6.2-COU-0020 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IY13443. Creating a software package block that has no log_host specified and using the `wdistfpblock -o log_host=<name>` command to distribute it, raises the following error message:

   The relational database was not updated for the operation file package block STEXCET msg 0016. An unexpected error occurred when accessing the TME database: o_errs:0010.

   (CMVC IY13443)

2. APAR IY14026. On Solaris platforms, when you submit the `man wsetfpcontents` command, it fails with either one of the following error information types:
   - The text,
     
     No information is returned about the command.
   - Syntax and command information that ends with the following text:
     
     -T Sets the file package list and source host.Segmentation fault (coredump)

   (CMVC IY14026)

3. APAR IY14238. If you distribute an AutoPack profile, by using either drag and drop, or selecting Distribute from the AutoPack icon pop-up menu, the distribution fails with the following error message:


   Your admin resource role to distribute an AutoPack profile was correctly defined in the region where the AutoPack profile and all the subscribers reside, a code change invalidated the authority role.
In the odstat and wtrace log files for the AutoPack distribution the following information is contained:

unauthorized e=12 occurs on _get_cacherd_size

**Note:** Patch 3.6.2-COU-0011 changed the Tivoli management region authorization role for distributing an AutoPack profile from senior role to admin role. This caused the error shown above. APAR IY14238 corrects for this problem and you can now distribute an AutoPack profile using the admin role.

(CMVC IY14238)

**Defect Fixed by Installing the 3.6.2-COU-0019 Patch**

A defect fixed in the 3.6.2-COU-0019 patch of Tivoli Software Distribution, Version 3.6.2 includes:

- APAR IY12749. On Windows 98 platforms, if you distribute two AutoPack file packages that change the win.ini file one immediately after the other, the distribution of the second file does not work.

To apply this fix on managed nodes and PC managed nodes you must create and distribute an AutoPack profile that contains the ap_agent.pak file on all managed nodes and PC managed nodes on which you will perform AutoPack distributions. To accomplish this task follow the AutoPack agent installation described in the *Tivoli Software Distribution AutoPack User’s Guide, Version 3.6*, Chapter “Overview and Installation”, section “AutoPack Agent Installation.”

(CMVC IY12729).

**Defects Fixed by Installing the 3.6.2-COU-0018 Patch**

Defects fixed in the 3.6.2-COU-0018 patch of Tivoli Software Distribution, Version 3.6.2 Gateway include:

1. APAR IY12462. On Windows NT platforms, the Reboot or Restart option on the Upon Removal scripts does not work using either the GUI or the `wsetfprgs -p` option. The Reboot or Restart
option works if it is set using `wsetfprgs -P` option.

(CMVC IY12462)

2. APAR IY12523. Using UserLink to perform the distribution of nested file packages that contains BARC scripts, the status bar incorrectly displays 100% as the percentage of distribution completed even if the distribution is not completed. (CMVC IY12523)

3. APAR IY09343. On LCF endpoints, the `default_mtime` keyword does not work properly in some cases. The datestamp is not set correctly in all of the distributed files.

**Note:** To solve this defect you must install the following patches in addition to patch 3.6.2-COU-0018:

- Tivoli Management Framework, Version 3.6.4 Maintenance Release
- 3.6.2-COU-0017 Courier Patch

(CMVC IY09343)

### Defects Fixed by Installing the 3.6.2-COU-0017 Patch

Defects fixed in the 3.6.2-COU-0017 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IX89511. In the File Package Properties window and in the File Package Options window for each specific platform, if you use certain international characters to fill some fields when creating a profile, the characters are shown corrupted when closing and reopening the profile. Some of the effected fields are:

- log file name
- BARC script name
- destination directory
- NLM name
- Netware tree
- Netware context

**Note:** To solve this defect you must install Tivoli Management Framework, Version 3.6.4 Maintenance Release in
Defects Fixed

addition to patch 3.6.2-COU-0017.

(CMVC IX89511)

2. APAR IY09343. On LCF endpoints, the default_mtime keyword does not work properly in some cases. The hour of the datestamp of the file is not set correctly. For example, if the datestamp 02:56:00 is displayed as 00:56:00. The minutes and the seconds of the datestamp are set correctly.

   Note: To solve this defect you must install the following patches in addition to patch 3.6.2-COU-0017:

   ■ Tivoli Management Framework, Version 3.6.4 Maintenance Release
   ■ 3.6.2-COU-0018 Courier Gateway Patch

(CMVC IY09343)

3. In the Tivoli Software Distribution Reference Manual, Version 3.6, Chapter “Commands”, section “wsetfpopts”, sub-section “General Keyword Options” the description of the -M keyword must be changed as follows:

   On the UNIX platform, sets the default_dir_mode keyword, which specifies the directory mode (according to chmod (2) numeric specification) for directories that are distributed. (CMVC 77213)

Defect Fixed by Installing the 3.6.2-COU-0015 Patch

A defect fixed in the 3.6.2-COU-0015 patch of Tivoli Software Distribution, Version 3.6.2 includes:

1. APAR IY11341. If you import a file package definition file where the prog_env keyword has been set to exactly 200 characters, the distribution fails and an unterminated quotes message is recorded in the log file. (CMVC IY11341)

Defects Fixed by Installing the 3.6.2-COU-0014 Patch

Defects fixed in the 3.6.2-COU-0014 patch of Tivoli Software Distribution, Version 3.6.2 include:
Defects Fixed

1. APAR IY11342. When performing a Distribution and Commit operation the following columns of the historical database are not updated:
   - filepack_activated
   - filepack_activation_time
   These columns are updated if you perform a commit operation only. (CMVC IY11342)

2. APAR IY11654. Using the `wdistrib` command to distribute AutoPack file packages the script that selects the endpoint at which the distribution will be performed, may select the same endpoint more than once. When this happens the distribution fails and the following message is displayed:
   ```
   DIS:APCO:0013-There has been a failure to distribute the autopacks
   (CMVC IY11654)
   ```

Defects Fixed by Installing the 3.6.2-COU-0012 Patch

Defects fixed in the 3.6.2-COU-0012 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IY10558. In an OS/2 environment, distributing to a target a file package that contains multiple BARC scripts separated by commas, Tivoli Software Distribution creates one temporary file only for each group of BARC scripts contained in the file package. The correct behavior is to create a temporary file for each after and before script defined in the file package. (CMVC IY10558)

2. APAR IY10666. In the UserLink for TME 10 Software Distribution dialog, even if the progress bar shows that the percentage of software downloaded is 100% and the status of the distribution is complete, the remaining distribution time is not 00.00.00. In addition, the distribution of file packages that contain long before scripts causes a negative value for time left. (CMVC IY10666)
Defects Fixed by Installing the 3.6.2-COU-0011 Patch

Defects fixed in the 3.6.2-COU-0011 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IX77643. An authorization failure occurs distributing or removing a file package or an AutoPack file or a file package block, or creating a file package block by using the following configuration roles:
   - User for TMRs
   - Admin for the resource contained in the policy region in which the file package object has been defined
   - None for the resource contained in the policy region in which the managed node has been defined

   **Note:** Applying this fix you must have at least the following authorization roles defined to perform all the operations addressed in the defect description successfully:
   - Admin role for the policy region where the file package resides
   - Senior role for the policy region where the managed node has been defined
   - Admin role to perform the `wdistfpblock`, the `wcpfpblock`, and the `wrmfpblock` commands
   - The TMR senior role to perform the distribution of an AutoPack file

   In the *Tivoli Software Distribution Reference Manual, Version 3.6*, Chapter "Commands", the section “Authorization” of the `wdistfpblock`, `wcpfpblock`, and `wrmfpblock` commands must include the admin authorization. (CMVC 38448)

2. APAR IX83175. In the *Tivoli Software Distribution User’s Guide, Version 3.6*, Chapter "File Package Operations", section “Distributing a File Package”, sub-section “Command Line” the description of the `-s` argument must be changed as follows:

   Distribute only those files that have changed on the source host since the last successful distribution of the current file package.
This argument corresponds to the Distribute Entries with changed source files GUI option.

In the Tivoli Software Distribution Reference Manual, Version 3.6, Chapter "Commands", section “wdistfp”, sub-section “Arguments”, the description of the -s argument must be changed as follows:

Distributes only those files that have changed on the source host since the last successful distribution of the current file package. This argument corresponds to the Distribute Entries with changed source files GUI option.

In the same section the description of the -n argument of the wdistfp command must be changed as follows:

Distributes to the subscribers files that have changed in type, permissions, size or modification time on the source host or on the subscribers. This argument corresponds to the Distribute Entries with any change GUI option.

In the Tivoli Software Distribution Reference Manual, Version 3.6, Chapter "File Package Definitions", section “Keywords”, the description of the file cksums keyword must be changed as follows:

Indicates where to use checksums on the individual files in the file package to detect differences between the source file and the target file, rather than just modification time, ownership group, membership, and file mode. This is only relevant when the Distribute with any changes option is performed both for a distribute and a preview operation.

In the Tivoli Software Distribution Reference Manual, Version 3.6, Chapter "Commands", section “wsetpopts”, sub-section “General Keyword Options” the description of the -F keyword must be changed as follows:

Sets the file cksums keyword, which specifies, if set to y, to compute the checksum on individual files to detect differences between the source file and the target. This is only relevant when the Distribute with any changes option is performed both for a distribute and a preview operation.
In the *Tivoli Software Distribution Reference Manual, Version 3.6*, Chapter "File Package Definitions", section “Keywords”, the description of the `rm_extraneous` keyword must be completed as follows:

Do not set this keyword to y when performing a distribution with any changes, because the files at the target will be deleted and it will be impossible to compare them with the source files.

In the *Tivoli Software Distribution Reference Manual, Version 3.6*, Chapter "Commands", section `wsetfpopts`, sub-section “General Keyword Options” the description of the `-R` keyword must be completed as follows:

Do not set this keyword to y when performing a distribution with any changes, because the files at the target will be deleted and it will be impossible to compare them with the source files.

(CMVC IX83175)

3. APAR IY05048. The following note must be added to the *Tivoli Software Distribution User’s Guide, Version 3.6*, in the Chapter "File Package Options", section “Configuration Programs”:

New environment variables cannot be created using BARC scripts that run on Windows 95 and Windows 98 endpoints because the LCF code uses all the environment space specified in the path environment variable. In a Windows 95 and Windows 98 environment, use the `prog_env` keyword to create environment variables that are used in BARC scripts. (CMVC IY05048)

4. APAR IY06074. In the *Tivoli Software Distribution Reference Manual, Version 3.6*, Chapter "File Package Definitions", section “Keywords” the description of the `rm_extraneous` keyword must be changed as follows:

Indicates whether to remove all files in an existing destination directory prior to installing a file package. (CMVC IY06074)

5. APAR IY08988. If in the File Package Properties dialog an incorrect host name or path is specified, the following problems occur:

- The Send to Software Distribution notice group option does not work.
Defects Fixed

- No events are sent to the Tivoli Enterprise Console when a distribution is performed.
- The Send E-mail to option does not work.
- The Inventory database is not updated.
  (CMVC 43615)

6. APAR IY10764. During a distribution, you cannot create or delete PC managed nodes or managed nodes. A general `oserv` error occurs. (CMVC IY0764)

7. APAR IY11181. In the *Tivoli Software Distribution User’s Guide, Version 3.6*, Chapter ”The Distribution Environment”, section “Creating a Repeater Hierarchy”, sub-section “Setting Repeater Parameters” change the following:

- Add the following sentence to the description of the `disk_max` parameter:
  `Disk_max must be set to at least 10 or 20 percent larger than the largest distribution.`

- Add the following sentence to the description of the `disk_hiwat` parameter:
  `Disk_hiwat must be set to at least 10 or 20 percent larger than your largest distribution.`

- In the description of the `disk_dir` parameter replace the sentence “This swap space must be at least as large as `disk_max`.” with the following sentence:
  `This swap space must be larger than `disk_max`.``

- Add the following sentence to the description of the `max_conn` parameter:
  `Each connection will use about 1.5 MB of memory when counting requirements for spawning new processes. Set a low value for this parameter unless you have a lot of memory.`

- Add the following sentence at the end of the “Setting Repeater Parameters” section:
  Each of those parameters are global. If you have more than one distribution performed at once on the same repeater, each
value is used independently. For example, if max_conn is set to 10, and you are performing two distributions at the same time on the same repeater, there will be 20 connections opened at the same time, and not 10. Because each connection uses 1.5 MB of memory, there will be 30 MB of memory used and not 15 MB.

(CMVC IY11181)

**Defects Fixed by Installing the 3.6.2-COU-0009 Patch**

Defects fixed in the 3.6.2-COU-0009 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IX89507. On NetWare endpoints, Perl 5 is now supported. (CMVC IX89507)
   
   **Note:** To solve this defect you must install Tivoli Management Framework, Version 3.6.3.

2. APAR IY09501. The distribution of an AutoPack file that contains accented French characters fails. The following distribution error is reported in the log file:

   Unable to open file: c:/no?s.txt: invalid argument
   Unable to install file c:/no?s.txt

   (CMVC IY09501)

3. APAR IY09943. On NetWare endpoints, the distribution of a file package that has the `nw_force_disconnect` keyword set to y, or for which you selected the Disconnect clients with locks on files check box, fails if the number of connections exceeds 255. (CMVC IY09943)

**Defects Fixed by Installing the 3.6.2-COU-0008 Patch**

Defects fixed in the 3.6.2-COU-0008 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IY08554. If you perform a file package distribution scheduling the distribution, and the source host or the endpoint on which you are performing the distribution is not operational, a general failure occurs. In addition, the Windows NT Event Viewer
Defects Fixed

reports the following message:

fpo_drive exited unexpectedly

(CMVC IY08554)

2. APAR IY08599. When running the wdistfpblock command to distribute a file package block simultaneously on different endpoints connected to different gateways, if one of the gateways stops, none of the distributions is successfully completed. (CMVC IY08599)

3. APAR IY09218. In the next published version of the Tivoli Software Distribution AutoPack User’s Guide, Version 3.6, the following paragraph will be added at the end of the Locked-files Support Option section on page 2-17:

The AutoPack Control Center monitors all the changes done to the $SystemDir and the $SystemRoot macros during the installation of an application. The value that these macros assume depends on the operating system on which you are running the AutoPack Control Center. See Appendix B, “Behind the Scenes”, for a detailed explanation of the $SystemDir and the $SystemRoot macros. Usually the files contained in $SystemDir or $SystemRoot are called system files because they are considered files by the operating system even if some applications install shared files in these directories, for example, .dll files. Other types of system files are text files and .ini files. Changes done to these files are monitored in the replace_file section of the .CHG file. When you install an application, the system files are copied in the $StagingDir before being moved to the final destination by the AutoPack Agent. If you perform a remove operation, the replace_file section is not monitored, therefore, the remove of an AutoPack package can leave some files in the $StagingDir directory. Run the steps described in the section “The .REP File” in Appendix A to perform a complete remove.

4. APAR IY09670. If you use the wmvfpobj command to move a file package to a profile manager that contains a blank in its name, the file package is not moved to the profile manager even if the message of a successfully completed operation is displayed. In
Defects Fixed

In addition, the name of the profile manager reported in the message is truncated. (CMVC IY09670)

5. APAR IY09680. swdist_queries.sh generates an error if one or more of the specified argument contains a space. (CMVC 44609)

6. APAR IY10237. On a Windows NT endpoint, if you distribute using the wdistfpblock command a file package block for which you have calculated the size, the following error is reported in the log file:

Warning: cannot open c:\etc\Tivoli\Userlink.ini

On the endpoint, the UserLink window tracking downloading status of the file is displayed. (CMVC 46380)

7. APAR IY10239. On the UserLink for TME 10 Software Distribution Web page, if you click the Info button, the following incorrect information is displayed:

Press the Reset button to update the list of available software packages

The following message is now displayed:

Press the RESET button at any time to clear all selections and resume choosing the package that you wish to download

(CMVC 79685)

Defects Fixed by Installing the 3.6.2-COU-0007 Patch

Defects fixed in the 3.6.2-COU-0007 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IY08987. If in the Set AutoPack Properties dialog you select Copy file from Endpoint and you enter the name of a non-Windows endpoint, the Set AutoPack File Location dialog is erroneously displayed and the contents of the Directory field is incomplete or empty. (CMVC 43043)

2. APAR IX75914. If in the File Package Properties dialog you select a source host and click the ellipsis (...) button, the directory structure shown is related to the machine on which you are working and not to the selected source host. (CMVC 47548)

3. APAR IY03850. Creating AutoPack profiles and deleting the .pak
files associated with the created profiles, if you run the `wchkdb -u` command it can generate the following error:

```
System exception: failure detected by object adapter: completion status: NO general failure
(CMVC IY03850)
```

4. APAR IY08886. If in the Available Subscribers list of the Remove File Package dialog you double-click one of the subscribers repeatedly, a general oserv failure occurs. (CMVC IY08886)

**Defects Fixed by Installing the 3.6.2-COU-0006 Patch**

Defects fixed in the 3.6.2-COU-0006 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IY08422. Distributing a file package that contains a before script to an endpoint and selecting the Skip distribution to host on a non zero exit code and the Stop distribution on Error check boxes, the following incorrect message is logged in the log file:

```
Before script failure: bad file descriptor
FATAL
```

After applying this patch, only the following message is reported in the log file:

```
Before script failure
```

(CMVC IY08422)

2. APAR IY09038. An error occurs performing a remove operation of a file package that has the backup_fmt keyword set, for example, to `c:/temp/backup/%n/%p/%f`. The log file contains the following message:

```
Filepackage <FP_name> never distributed. Error removing Filepackage.
```

(CMVC IY09038)

3. APAR IY09150. On an OS/2 endpoint it is not possible to run the `wseterr` command because this executable is not delivered on the OS/2 platform. (CMVC IY09150)
Defects Fixed

Defect Fixed by Installing the 3.6.2-COU-0005 Patch

A defect fixed in the 3.6.2-COU-0005 patch of Tivoli Software Distribution, Version 3.6.2 includes:

- APAR IY04679. On a Japanese gateway machine, the Status, Progress Status, and Time Left fields in the User Link Status dialog are corrupted.

Defects Fixed by Installing the 3.6.2-COU-0004 Patch

Defects fixed in the 3.6.2-COU-0004 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IY05471. Distributing a nested file package to a NetWare endpoint, the following message displays on the NetWare server, however, the distribution is successful:

   resource not released

   (CMVC IY05471)

2. APAR IY06652. Distributing a file package block that has the rm_extraneous=y and the default_push_mode=all keywords set, the rm_extraneous keyword is reset to false and the files are not removed. (CMVC IY06652)

3. APAR IY06927. On Windows 95 endpoints, the distribution fails for a file package that distributes the contents of a directory described by a pathname ending with \, for example c:\test\. (CMVC IY06927).

4. APAR IY07329. Distributing a file package that contains an after script that does not exist, corrupts the log file. (CMVC IY07329)

Defects Fixed by Installing the 3.6.2-COU-0003 Patch

Defects fixed in the 3.6.2-COU-0003 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IX71178. If you click the Schedule button to perform the distribution of two different jobs on two different subscribers, the second job submitted is performed on the subscriber selected for the first job. (CMVC 28912)
2. APAR IX86140. Creating an AutoPack file and selecting the endpoint files through the file browser, if the endpoint is installed on a drive that is not c:, and the disk of the endpoint has more than one drive containing the same subdirectories, for example, c:\temp and e:\temp, the content of e:\temp is displayed unless you type c:\ in the pathname field and click Set Path. (CMVC IX86140)

3. APAR IY03463. From the Distribution dialog, if you click Schedule to schedule the distribution of a profile that has a name longer than 42 characters, a general failure occurs. The following message is generated:

A failure was detected by the oserv demon: general failure.

4. APAR IY04602. In an HP TMR, the distribution of a file package that has the wseterr command set in an after script, causes a core dump. This occurs when using either the GUI or the command line. (CMVC IY04602)

5. APAR IY04261. The output of MBCS filenames contained in a file package are corrupted when performing a file package distribution in preview mode either through the GUI or through the wdistfp -p command. (CMVC IY04261)

   **Note:** In a Japanese environment, until APAR IX89511 is fixed, when editing the platform specific options for a second time, all the characters are corrupted. If you save the file package after doing this operation, the distribution fails.

6. APAR IY04356. When exporting a file package that contains source files name with accented French characters, for example, matériel.txt, the source file name is corrupted as follows:

   mat?riel.txt

   (CMVC IY04356)

7. APAR IY04621. The Tivoli Software Distribution dialog that appears when you click the Tivoli Software Distribution Event Groups button in the Tivoli Enterprise Console window does not show any messages under the Message column when a file package is distributed and a TEC event is generated.

   Currently the name of the file is shown in the message column. In addition, if the distribution fails, the following text is displayed:
<file package> - see logfile

(CMVC IY04621)

8. APAR IY05514. It is not possible to correctly expand or compress the list of Available Subscribers in the Distribute File Package dialog. (CMVC IY05514)

9. APAR IY06077. The following commands map the set of specified endpoints to their labels:
   ■ wdistfp
   ■ wdistfpblock
   ■ wrmfp
   ■ wrmfpblock
   This behavior degrades performance significantly because it delays the distribution.
   **Note:** You can fix this problem by specifying the -x argument when using the above commands.

(CMVC 82008)

10. APAR IY06332. If the size of a file package exceeds two gigabytes, the calculate size option returns a negative number. The negative number is also stored in the size attribute of the file package. (CMVC IY06332)

11. APAR IY06536. If an AutoPack profile that has the retry option set is scheduled against two or more subscribers and the distribution on some endpoints fails, Tivoli Software Distribution tries in error to distribute the AutoPack profile to all the endpoints, and not only to the endpoints on which the distribution failed. (CMVC IY06536)

12. APAR IY07772. UserLink can now manage a general user, who does not need a userid and a password to run UserLink.
   **Note:** This feature is not supported on the HP-UX platform.
   To use this new feature, do the following:

   **Configure the Environment Before Installing the Feature**
   a. Install Tivoli Software Distribution UserLink.
b. As TMR administrator, define a public policy region. The subscribers will have access to all the file packages contained in the public policy region according to the subscription type of endpoint.
c. In a UNIX environment, ensure that the **nobody** user has been defined, which is the default user for most UNIX systems.
   In a w32-ix86 environment, ensure that the **Tmesrsvd** user has been defined, which is defined by default during the Framework installation.

**Install the Feature**

In a UNIX environment, perform the following:

d. To set up the Tivoli environment, run `setup_env.sh`.

e. From the `$BINDIR/TME/COURIER/USERLINK` path, extract the tar file using the following command:
   ```
   # tar xrf swd_public_userlink.tar
   ```

In a Windows NT environment, perform the following:

f. To set up the bash environment, run `bash.exe`.

g. To set up the Tivoli environment, run `setup_env.sh`.

h. From the `$BINDIR/TME/COURIER/USERLINK` path, extract the tar file using the following command:
   ```
   # tar xrf swd_public_userlink.tar
   ```

The `tar` command creates the following directories and files:

- `$BINDIR/TME/COURIER/USERLINK/swdpublic/public_stuff.cgi`
- `$BINDIR/TME/COURIER/USERLINK/swdpublic/pulldist.cgi`
- `$BINDIR/TME/COURIER/USERLINK/swdpublic/swd_info.cgi`
- `$BINDIR/TME/COURIER/USERLINK/swdpublic/swd_pub_delete.sh`
- `$BINDIR/TME/COURIER/USERLINK/swdpublic/swd_public.cfg`
Configure the Environment After Installing the Feature

i. Ensure that the administrator has created the public policy region.

j. Using the command line of the TMR server, from the $BINDIR/TME/COURIER/USERLINK path, enter the following command:

```
./swd_public.cfg <interp> <regionname>
```

where `interp` is your platform and `regionname` is the value specified in the .public_region_name.txt file. For example:

```
./swd_public.cfg aix4-r1 PublicPackagesRegion
```

The install script runs `wupdefcgi` automatically.

After you run the `./swd_public.cfg` script, the following directories and files are created:

**SBINDIR/TME/COURIER/SWDPublic**
Contains the uninstall script

**$BINDIR/TAS/HTTPOd/cgi-bin/Public**
Contains the files to work with the public policy region

**BINDIR/TAS/HTTPOd/cgi-bin/Public/**

.**public_region_name.txt**
Contains the name of the public policy region. You can change the name by editing the .public_region_name.txt file. If you change the name, you must update the authorization profile of the NOBODY user.

Uninstall the Feature

k. Enter the following command:

```
./$BINDIR/TME/COURIER/SWDPublic/swd_pub_delete.sh interp
```

l. Delete the `regionname`_User administrator, where `regionname` is the value specified in the .public_region_name.txt file.

(CMVC IY07772)

13. APAR IY08785. If you attempt to access the HTTP server from the
Defects Fixed

browser of more than one endpoint, the following message is displayed:

The Profile Manager(s) does not contain any File Packages (CMVC 81927)

This patch includes the following workaround due to the 82294 defect. To fix this problem, perform the following:

a. At the beginning of the get_version_cgi file, set the 
   **wlssub_bug** variable to 0.
   The get_fp_size method works with the SENIOR default 
   authorization policy. Having this authorization avoids the need 
   to invoke the CLI commands directly from the CGI.

b. Customize your environment to work with the ADMIN role. 
   This patch sets the command line commands and the ADMIN 
   role as defaults and by applying the patch the get_fp_size 
   method works using the ADMIN role.

To recreate the environment prior to this patch, at the beginning of 
the get_version_cgi file set the **use_cli** variable to 0.

14. APAR IY08803. Using UserLink, it takes an excessive amount of 
time to list the file packages contained in all the profiles.

This patch includes the following workaround due to the 82294 defect. To fix this problem, do the following:

a. At the beginning of the get_version_cgi file, set the 
   **wlssub_bug** variable to 0.
   The get_fp_size method works with the SENIOR default 
   authorization policy. Having this authorization avoids the need 
   to invoke the CLI commands directly from the CGI.

b. Customize your environment to work with the ADMIN role. 
   This patch sets the command line commands and the ADMIN 
   role as defaults. The get_fp_size method works using the 
   ADMIN role.

To recreate the environment prior to this patch, at the beginning of 
the get_version_cgi file, set the **use_cli** variable to 0.

(CMVC 63486)
Defects Fixed by Installing the 3.6.2-COU-0002 Patch

Defects fixed in the 3.6.2-COU-0002 patch of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IY03316. On NetWare server 4.11, the Disconnected User option that locks files does not work if long names space support is loaded on the volume where the distribution is performed. (CMVC IY03316)

2. APAR IY05829. The distribution of an AutoPack file that renames locked files that are located outside the system directory fails. (CMVC IY05829)

Defects Fixed in Version 3.6.2

Defects fixed for Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IX59395. The default value of the append_log keyword must be Y, meaning append notice to the log file.

   **Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0037. (CMVC-IX59395)

2. APAR IX66733. Distributing a file or directory that has the UID or GID value nobody, which is valid for AIX platforms only, to a UNIX platform (such as Solaris) that does not recognize this value, causes the distribution to fail with the following error message:

   Chown/data/dest/21790/nb_file: No such file or directory.

   **Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0037, which sets the UID and GID default values to 0. (CMVC-21790)

3. APAR IX67135. When distributing a nested file package with the Distribute entries with changed source files option selected, the nested file package is distributed even though no changes were made in the file package. The distribution completes successfully but unnecessary files are distributed. This option works only in the top-level file package.
4. APAR IX68562. The nested file package does not write to the log.

**Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-22269)

5. APAR IX69100. The distribution of an AutoPack file does not send to the Software Distribution the notice group or the e-mail information.

**Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-24058)

6. APAR IX69896. The repeater manager demon (rptm) times out if it does not receive a method call for more than 20 minutes. When the demon stops, the information on the active distribution is lost. Any subsequent invocation of the `wrpt- L` command does not show that the distribution was active.

**Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0037.

(CMVC-IX69896)

7. APAR IX73995. On the Windows 95 platform, distributing an AutoPack file that updates an `.INI` file contained in a windows directory, the `.INI` file is not handled correctly: extra blanks are inserted and alphabetization of the `.INI` file items occurs.

(CMVC-65186)

8. APAR IX74941. If the `fp_def_nestedlist` method fails, the wrong error message displays. The following error message now displays:

   the fp_def_nestedlist policy default method fails

(CMVC-34662)

9. APAR IX75644. When using the `wsetfpcontents` command to set file package properties, Software Distribution does not set the `-F`,...
-N, and -E options from the default policy if a command line argument is not specified with the option. (CMVC-35576)

10. APAR IX76774. On UNIX platforms, distributing from a PC managed node to a UNIX destination directory an AutoPack file in which no destination is specified in the destination field, the destination directory properties are incorrectly modified. (CMVC-37145, CMVC-67092)

11. APAR IX78023. On the Windows NT platform, when you distribute a file package in which you set the Send E-mail to check box of the Log Info Options box, the message is sent to the selected host, but not correctly displayed.

   **Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0037.

   (CMVC-IX78023, CMVC-39083)

12. APAR IX79770. Setting Default Policy to None from the Managed Resource Policies dialog causes the following error message to appear in error when you create a file package definition or an AutoPack profile. This is not a problem when you set validation policy from the Managed Resources Policies dialog.

   Could not find objects method implementation: method not found.
   Make sure that the TME binaries are available for all installed platforms.

   (CMVC-42816, CMVC-65839)

13. APAR IX80520. Microsoft Access cannot be started after an AutoPack file is distributed. (CMVC-IX80520)

14. APAR IX82028. For AutoPack, a warning message has been added to notify the user that security keys must have a unique value. (CMVC-IX82028)

15. APAR IX83054. The wdistfpblock command does not send the events to the TEC console if the fpblock_path argument contains special characters in the path name. (CMVC-IX83054)

16. APAR IX84023. File package distribution fails on AIX.

   **Note:** To solve this defect you also need to install the TMP 3.6.1
17. APAR IX84161. On a Windows NT managed node the distribution fails with access denied if any of the destination files are locked by a remote node.

**Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX84161)

18. APAR IX84256. On the Windows NT platform, a file package distribution hangs if it addresses a Windows NT directory that does not have write permission assigned to it.

**Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX84256)

19. APAR IX84327. The following options have been added to the `wdistfpbblock` command:

- \(-b\)
- \(-c\)
- \(-d\)
- \(-f\)

The -f option is supported for the following commands:

- `wdistfp`
- `wrmfp`
- `wrmfpbblock`

See “Known Documentation Defects in Version 3.6.2” on page 74 for a detailed explanation of the added options. (CMVC-53272, CMVC-54260, CMVC-67042)

20. APAR IX84337. If the managed node language is Japanese (LANG=JA-JP), the Software Distribution log file is corrupted.

**Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX84337)

**Note:** To solve this problem you must add the `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\ROOT` keyword in the RegistryMonitor section of the `autopack.ini` file.

(CMVC-IX84627)

22. APAR IX85076. On UNIX platforms, the distribution of an AutoPack file in which no files have been specified in the directory path field causes the destination directory to lose write permissions and can cause the gateway to crash. (CMVC-IX85076)

23. APAR IX85829. UserLink shows on the status bar an incorrect output of the percentage of a file package distribution completed on a subscriber system. (CMVC-IX85829)

24. APAR IX85860. The distribution of a file package that contains BARC scripts creates only a temporary file for the commit script. The temporary files for the before and after scripts are lost. (CMVC-IX85860)

25. APAR IX86669. On an OS/2 endpoint, the distribution in preview mode of a file package with the `Distribute Entries with ANY changes` option fails with an unknown platform error. (CMVC-IX86669)

26. APAR IX86878. UserLink fails when installing an AutoPack profile that is stored in a path containing blanks or semicolons (;). (CMVC-IX86878)

27. APAR IX86884. The NetWare operating system does not allow multiple backup if the `backup_fmt` file package keyword has been specified. (CMVC-IX86884)

28. APAR IX87023. A misleading error message is displayed in the `Set AutoPack Properties` dialog if you specify an invalid host name for a PC managed node or a managed node. (CMVC-IX87023)

29. APAR IX87336. On Windows 95 and OS/2 endpoints, if the `prog_env` keyword has been specified in the file package definition, the environment variables are also erased and not
30. APAR IX87427. An administrator cannot add to an AutoPack profile files that reside on a managed node belonging to a policy region where the administrator not have the senior role. (CMVC-IX87427)

31. APAR IX87891. Long file names identifying AutoPack icons are not supported on targets running the DOS operating system. (CMVC-IX87891)

32. APAR IX88126. A RIM trace error occurs during a distribution when the historical database feature is installed. (CMVC-IX88126)

33. APAR IX88464. If in the Edit Optional Information dialog a file package is created in which only the product name has been specified, the distribution fails with the following error:

   *The relational database was not updated for the operation on FILEPACKAGE. The rdbms server call failed.*

   (CMVC-IX88464)

34. APAR IX88661. On the UNIX platform, in a TMA endpoint the \texttt{after\_as\_uid} keyword of an exported file package does not execute BARC scripts. It executes BARC after scripts as \texttt{root} and creates any resulting file as owned by \texttt{root}. (CMVC-IX88661, IX77374, 38035)

35. APAR IX88853. An error in the registry occurs using AutoPack 3.6 on Windows NT 4.0 with Service Pack 4. (CMVC-IX88853)

36. APAR IX88859. The names of file packages distributed to NetWare endpoints are converted to uppercase.

   \textbf{Note:} Netware 4.x plus CLIB 4.11m or later must be installed to fix this defect. (CMVC-IX88859)

37. APAR IX88941. The AutoPack agent cannot manage the keys of \texttt{.INI} files in which long string values are specified. (CMVC-IX88941)

38. APAR IX88962. An AutoPack file cannot be distributed to a profile manager that contains unavailable subscribers. Messages
Defects Fixed

10 and 11 have been deleted. (CMVC-68752)

39. APAR IX88991. If the names of the files included in a file package contain wildcards, for example:

   /tmp/test_fp/dir1/* .so .a

   an oserv error occurs. (CMVC-IX88991)

40. APAR IX89105. The validation methods that are specified before the creation of a file package or AutoPack file do not run correctly. (CMVC-IX89105)

41. APAR IX89291. On NetWare endpoints, Software Distribution cannot execute the .NCF scripts as after and before scripts during a distribution.

   **Note:** With this fix, the extension of the .NCF file must be specified, also, the execution of the .NCF script is asynchronous and cannot contain parameters.

   (CMVC-IX889291)

42. APAR IX89572. The distribution of an AutoPack file to two PC managed nodes causes the following error message:

   An unexpected error occurred when accessing the TME database:

   (CMVC-IX89572)

43. APAR IX89842. The -d option that you can specify in the files and directories section of the file package definition does not work properly if the file package contains shell commands or wildcards in its destination path. (CMVC-IX89842)

44. APAR IX89846. The OS/2 TMA endpoints do not support locked files during file package distribution. If a file is locked because it is in use, it is not distributed. (CMVC-IX89846, CMVC-75833)

45. APAR IY00600. The distribution of a file package fails if the **unix_before_uid** keyword is set to blank. (CMVC-IY00600)

46. APAR IY00380. When renaming an AutoPack file, the new name is not shown in the policy region where the AutoPack file resides. (CMVC-IY00380)

47. APAR IY01267. In the French version, when creating a software distribution package on a Windows NT target system, it is not
Defects Fixed

possible to choose the Source Host from the File Package Properties dialog. (CMVC-IY01267)

48. APAR IY01494. The OS/2 TMA endpoint is unable to run BARC scripts that have names longer than eight characters or an extension longer than three characters (8.3 format) or that contain spaces. (CMVC-IY01494)

49. APAR IY01517. If Software Distribution is listed in the Current Notice Groups box of the Set Notice Groups dialog and the following command is submitted:

```
wdistfpblock /tmp/example_fp.fpblock @<target system>
```

the Software Distribution Notice Group is not updated with either a success or a failure notice.

**Note:** To solve this defect you also need to install the TMP 3.6.1 level 3.6.1-TMF-00051.

(CMVC-IY01517)

50. APAR IY01645. If nested file packages are specified in the distribution of a file package, the nested files are not appended to the list produced by the `list_path` keyword. (CMVC-IY01645)

51. APAR IY01696. On a NetWare managed site, you cannot perform an AutoPack distribution by dragging and dropping the file package to the NetWare managed site icon. (CMVC-IY01696)

52. APAR IY02015. Submitting the `wchkpol` command to a policy region in which an AutoPack file resides, the policy validation methods for AutoPack files are not executed. (CMVC-IY02015, 53718)

53. APAR IY02016. Submitting the `wchkpol` command to a policy region in which a file package resides, the policy validation methods for file packages are not executed. (CMVC-IY02016, 53719)

54. APAR IY02494. On a target system, performing a distribution of file packages that addresses locked files, a copy of the original file is saved on the specified directory, to be replaced during the next reboot. However, the replaced file is corrupted because extra bytes are added to the original file, so the next reboot of the file will not
work properly. (CMVC-IY02494)

55. APAR IY02505. Removing a file package using the **Remove Empty Directory** option from the File Package dialog an error message appears. (CMVC-IY02505)

56. APAR IY02515. For an AutoPack distribution, the GUI takes too long to display the Distribute AutoPack To scrolling list with all the system targets to which the AutoPack file should be distributed. (CMVC-IY02515)

57. APAR IY02985. The distribution to Version 3.6.1 endpoints of large file packages (more than 100 megabytes) that have the **Distribute entries with ANY changes** option set causes the following error in the log file:

   unpack: bad header FATAL distribute: An internal error occurred: general failure.

   (CMVC-IY02985)

58. APAR IY03033. When you distribute a file package that addresses locked files to Windows endpoints, the endpoints must be rebooted before the locked files are replaced. (CMVC-IY03033)

59. APAR IY03389. The Log file and the Notice Group that are set through the **Log Information Options** box for a scheduled AutoPack file distribution report a successful distribution even if the distribution fails. (CMVC-IY03389)

60. APAR IY03556. When the **rm_extraneous=y** keyword is set in a file package and the file package includes source-side BARC scripts, all non-locked files are deleted from the directory where the temporary BARC scripts are installed. (CMVC-IY03556)

61. APAR IY03604. AutoPack file distribution that does not have the Log Info set fails. (CMVC-74479)

62. APAR IY03671. Distributing multiple small file package blocks when the historical database is enabled, **wdistfpblock** hangs state. (CMVC-IY03671)

63. APAR IY04895. When you create a Tivoli Service Desk 4.0.1 AutoPack file, AutoPack Control Center 3.6.1 hangs during the Comparing Windows shell build phase. (CMVC-IY04895)
Defects Fixed

64. If you have installed Framework TMP 3.6.1 level 3.6.1-TMF-0051, one of the following keys will be displayed before each Software Distribution exception message, depending on which application has generated the message:

- DIS:APUI AutoPackEx.msg
- DIS:APCO APackEx.msg
- DIS:FPDB sdEx.msg
- DIS:FPUI FpGuiErrMsg.msg
- DIS:FPCO FpoCoreCatalog.msg

(CMVC-69378)

65. AutoPack can now manage write-protected registry keys. If the autopack.ini file has been correctly customized, the AutoPack Control Center can discover the changes made to the registry, and it is now able to install those changes to the target even if the related keys do not have write permissions. With this feature, the AutoPack agent acquires the write access on protected keys so that they can be modified, added, or removed. It restores the previous permissions after processing. The only restriction is that you must be logged on as administrator to run the wsyschg.exe process, because protected keys can be modified only by the administrator of the target, even if the regedt32.exe tool is used. (CMVC-74043)

Defects Fixed by Installing the Framework, Version 3.6.2

This section lists the defects fixed in Tivoli Software Distribution by installing the Tivoli Management Framework, Version 3.6.2:

1. APAR IX75347. Performing the preview of a distribution with the Distribute entries with ANY changes option selected, if the source files do not exist, an ambiguous error message is generated. (CMVC-69803)

2. APAR IX82689. Instructions to reboot after distribution fail on managed nodes running Windows NT. (TMAs are not affected by this defect.) (CMVC-IX82689)

Note: Install Service Pack 4 on the Windows NT 4.0 machines
before rebooting or restarting the machines through a software distribution. Doing this prevents the appearance of intermittent errors that display the following message:

Instruction at 0x77F6CC66 referenced memory at 0x00000010. The memory could not be written.

3. APAR IX82787. It is not possible to distribute two different file packages containing after scripts at the same time on the same machine. (CMVC-IX82787)

4. APAR IX84383. If a file package contains files that have been already deleted and that have names containing wildcards, the distribution fails with a fatal error instead of a minor error. (CMVC-IX84383)

5. APAR IX84553. Using a Windows NT managed node as the source host, when you enter the /directory/* command to view the content of a directory for source files, the command fails if one of the files of the directory contains a space in its name. (CMVC-IX84553)

Software Distribution no longer automatically places quotation marks around file paths. This change allows you to use both wildcards and spaces in a file name.

You must manually place quotation marks around file paths that require them. Observe the following quoting rules for lines that appear in the file list of the file package:

- The file must be first token of the line. Tokens are delimited by spaces unless they are enclosed in double quotation marks. Therefore, if the file name contains a space, you must enclose it in double quotation marks. In the following example, the file is `c:/Program File/app/sub_dir/src_file`. The token `d=/dest_dir` is a file option and is not part of the file.

  "c:/Program File/'app/'sub_dir'/src_file d=/dest_dir"

- If the file does not contain any wildcards that are not enclosed in quotation marks, all wildcards are interpreted literally. For example, the following line distributes a file named `*` from the `c:/Program Files` directory rather than distributing all files from that directory:
"c:/Program Files/*"

- If the file contains any wildcards that are not enclosed in quotation marks, the file is interpreted by the Bourne shell, which expands all wildcards that have matching files. The following example distributes all of the files that begin with file, in any directory that begins with sub_dir that is in the /src directory:

"/src/sub_dir/*file.*"

- If the file contains wildcards that are not enclosed in quotation marks and parts of the file should not be expanded by the Bourne shell, you should follow Bourne shell quoting rules. You might need two layers of quoting, one for Tivoli and one for the Bourne shell. The following example distributes all files prefixed with file, from a directory that is literally named Finance ($s) dir that lies in a subdirectory that is named by the APPS environment variables of the 

c:/Program Files directory:

"'c:/Program Files'/"$APPS"/'Finance ($s) dir'"/file.*"

Note that the quoting is reversed ("...") as opposed to ("...") so that $APPS is expanded but $s is not.

The following characters are not allowed on all platforms and therefore should be avoided: \ / : * ? " < > and |.

If the constraints of the GUI interface make it impossible to enter your information through the GUI, you can use either the wexprtpf, wimprtfp, or wsetfpcontents CLI commands. See the Tivoli Software Distribution Reference Manual for more information about these commands.

6. APAR IX85737. Distribution fails if a file package contains wildcards in the file list and the file names that satisfy the wildcards contain MBCS characters. (CMVC-IX85737)

7. APAR IX86071. Nested file packages that include after BARC scripts do not run on the source host. (CMVC-IX86071)

8. APAR IX86454. The wsetfpopts -E option that sets the prog_env keyword splits lines incorrectly if the prog_env string is more than 200 characters in length. (CMVC-IX86454)
9. APAR IX87028: OS/2 endpoints cannot run after scripts in file package distributions without running out of resources. (CMVC-53385)

10. APAR IX87959: When a file package is distributed to a Windows 95 endpoint, and the file package is configured to reboot the endpoint, the computer hangs at the splash screen during shutdown.

11. APAR IX88561. A significant performance lag occurs because file package staging does not share threads correctly with file package distribution. (CMVC-IX88561, CMVC-61584)

12. APAR IX88752: File package distributions that have the reboot option selected for after scripts cause Windows 95 and Windows 98 machines running anti-virus programs to hang when the reboot starts.

13. APAR IX88983. When you preview a file package that contains wildcards in the file list path, if one of the directories that matches the wildcards is empty, the preview option of the file package distribution results in duplicated output. (CMVC-IX88983)

14. APAR IX88985. The preview and the distribution of nested file packages fails if many long messages are generated. (CMVC-IX88985)

15. APAR IX89001. The calculate size function fails with an unsuccessful error message if any of the files specified in the file list do not exist. (CMVC-IX89001)

16. APAR IY01878. If the last character of a file or directory path entered in the Directory and Files text box is an asterisk (*), the entire path is enclosed in quotes and causes the distribution to fail with a general failure. This failure can occur when the Stop distribution on Error option is checked. (CMVC IY01878)

A more detailed error message is now displayed when quotation marks and wildcards cause syntax errors in the Directory and Files text box of a file package.

17. APAR IY02501: Previews and distributions using the Distribute entries with changed source files option (or the wdistf -s command from the command line interface) no longer result in all
files in a nested file package being previewed or distributed. Now, only changed source files are previewed or distributed.

**Note:** Although this defect has been fixed, you should observe the following guidelines to ensure that files are sent only when they need to be updated:

- The set of endpoints to which each file package is distributed must be constant.
- Two incompatible distributions must never be sent to the same endpoint. If any of the files in a distribution share a common destination with files in any other distribution, and those files have different sources, then the distributions are incompatible.
- The set and order of the nested file packages in each distribution must be constant.

If you cannot meet all of these constraints, for example when you add endpoints, you should perform a complete distribution.

18. APAR IY02869. The default value of the `log_file_mode` keyword is not correct in the code. The correct value is 600, as described in Chapter 1 of the *Tivoli Software Distribution Reference Manual, Version 3.6.* (CMVC IY02869).

The Software Distribution log file now has more restrictive file permissions, giving the owner read and write permissions.

19. APAR IY02895. On managed nodes, the log file generated distributing a file package that contains an after script with DBCS characters is corrupted. (CMVC IY02895)

20. APAR IY03040. A file package distribution to a NetWare endpoint does not wait until the before script completes successfully before proceeding. (CMVC IY03040)

21. APAR IY03270. File package path names greater than 200 characters fail with the error `Expected '='` assignment. (CMVC Y03270)
Defects Fixed by Installing a Framework Patch

This section lists the defects fixed in Tivoli Software Distribution by installing the appropriate Tivoli Management Framework patch.

Note: All the Framework patches in this section (except for TMP 3.6.1 level 3.6.1-TMF-0041) are also included in the Tivoli Management Framework, Version 3.6.2.

1. APAR IX75347. Performing the preview of a distribution with the Distribute entries with ANY changes option selected, if the source files do not exist, an ambiguous error message is generated.
   Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0026.
   (CMVC-69803)

2. APAR IX82689. Instructions to reboot after distribution fail on managed nodes running Windows NT. (TMAs are not affected by this defect.)
   Note: To solve this defect, Windows NT 4.0 plus Service Pack 4.0 and the TMP 3.6.1 level 3.6.1-TMF-0013 must be installed.
   (CMVC-IX82689)

3. APAR IX82787. It is not possible to distribute two different file packages containing after scripts at the same time on the same machine.
   Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0026.
   (CMVC-IX82787)

4. APAR IX82867. When you try to distribute a file package through an OS/2 gateway, the following error occurs:
   Unknown mdist protocol key 42
   Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.
   (CMVC-IX82867)

5. APAR IX84160. In a two-way interconnected TMR setup, if you
start a distribution from TMRa to TMRb and then run the `wrpt -L` command on TMRb, the `wrpt` command generates a segmentation fault.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX84160).

6. APAR IX84383. If a file package contains files that have been already deleted and that have names containing wildcards, the distribution fails with a fatal error instead of a minor error.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX84383)

7. APAR IX84553. Using a Windows NT managed node as the source host, when you enter the `/directory/*` command to view the content of a directory for source files, the command fails if one of the files of the directory contains a space in its name.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX84553)

8. APAR IX85562. On managed nodes the MDIST service does not recognize the `MDIST_BUF_SIZE` environment variable that the gateway recognizes.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX85562)

9. APAR IX85737. Distribution fails if a file package contains wildcards in the file list and the file names that satisfy the wildcards contain MBCS characters.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX85737)

10. APAR IX85771. On the AIX platform, the distribution of long file package blocks fails with a bail-out message. (CMVC-IX85771).
Defects Fixed

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0003.

11. APAR IX86071. Nested file packages that include after BARC scripts do not run on the source host.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX86071)

12. APAR IX86454. The `wsetfpopts -E` option that sets the `prog_env` keyword splits lines incorrectly if the `prog_env` string is more than 200 characters in length.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX86454)

13. APAR IX86651. A negative value for the `net_load` repeater parameter causes a core dump.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-IX86651)

14. APAR IX87674. File package distributions submitted from a Windows NT managed node are slow.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX87674).

15. APAR IX87736. Specifying an endpoint as a repeater using the `wrpt -n` command causes the repeater manager demon (rptm) to loop while performing the `wrpt -q` command. In addition, the endpoint is listed in error in the repeater list for the route request.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0026.

(CMVC-IX87736)

16. APAR IX88561. A significant performance lag occurs because file package staging does not share threads correctly with file package
Defects Fixed

Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX88561, CMVC-61584)

17. APAR IX88983. When you preview a file package that contains wildcards in the file list path, if one of the directories that matches the wildcards is empty, the preview option of the file package distribution results in duplicated output.

Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX88983)

18. APAR IX88985. The preview and the distribution of nested file packages fails if many long messages are generated.

Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX88985)

19. APAR IX88989. The disk_max repeater tuning parameter does not work properly.

Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0003.

(CMVC-61811)

20. APAR IX89001. The calculate size function fails with an unsuccessful error message if any of the files specified in the file list do not exist.

Note: This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0013.

(CMVC-IX89001)

21. APAR IX89659. File package distribution fails if a negative value for the net_load repeater parameter of the wrpt command has been specified. (CMVC-IX89659)

22. APAR IY00678. On repeaters, a negative value for the net_load tuning repeater parameter does not limit correctly the network
bandwidth used for a distribution.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0026.

(CMVC-IY00678)

23. APAR IY01878. If the last character of a file or directory path entered in the Directory and Files text box is an asterisk (*), the entire path is enclosed in quotes and causes the distribution to fail with a general failure. This failure can occur when the **Stop distribution on Error** option is checked.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0060.

(CMVC-IY01878)

A more detailed error message is now displayed when quotation marks and wildcards cause syntax errors in the **Directories and Files** text box of a file package.

24. APAR IY02505. Removing a file package using the **Remove Empty Directory** option from the File Package dialog an error message appears.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0060.

(CMVC-IY02505)

25. APAR IY02869. The default value of the **log_file_mode** keyword is not correct in the code. The correct value is **600**, as described in Chapter 1 of the *Tivoli Software Distribution Reference Manual, Version 3.6.*

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0051.

(CMVC-IY02869)

26. APAR IY02895. On managed nodes, the log file generated distributing a file package that contains an after script with DBCS characters is corrupted.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0060.
27. APAR IY03187. On endpoints, if a software distribution fails and the error message that is generated contains MBCS characters, the log file is corrupted.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0060.

28. APAR IY03270: File package path names greater than 200 characters no longer fail with the error `Expected '=' assignment.`

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0051.

29. APAR IY03556. When the `rm_extraeous=y` keyword is set in a file package and the file package includes source-side BARC scripts, all non-locked files are deleted from the directory where the temporary BARC scripts are installed.

**Note:** This defect is solved by installing the TMP 3.6.1 level 3.6.1-TMF-0060.

30. Specifying the `-c` and the `-d log_file` option in the `wdistfpblock` command, the specified log file name is ignored.

**Note:** Applying this fix, the log file name that already exists is used if a new one is not specified. This defect is solved installing the TMP 3.6.1 level 3.6.1-TMF-0003.

31. On an OS/2 gateway, if the `wrpt -t` command is entered from the command line, the output is correctly displayed but the gateway crashes.

**Note:** Applying this fix, `%\dbdir\%\tmp` is the default directory value. This defect is solved installing the TMP 3.6.1 level 3.6.1-TMF-0051
Defects Fixed in Version 3.6.1

Defects fixed for Tivoli Software Distribution, Version 3.6.1 include:

1. APAR IX69677. AutoPack did not append to registry keys on endpoint systems; the entire key is replaced instead. (CMVC-38360)

2. APAR IX70772. Incomplete log files are written when distributing file packages. (CMVC-28347)

3. APAR IX76137. AutoPack does not update the desktop for every user when installing on Microsoft Windows 9x systems with multiple users with individual desktops and start menus. (CMVC-36274)

4. APAR IX77121. Distributions can fail because of access permissions due to non-system locked files. (CMVC-37873)

5. APAR IX77805. The Select Source Host window has been redesigned, and the **Filter** button and the **Set Path** button have been removed.

6. APAR IX78264. Registry entries located under the CURRENT_USER key are not updated when an AutoPack file is distributed. The AutoPack agent will update registry entries located under the CURRENT_USER key when users login. The length of time that registry changes under the CURRENT_USER key are stored after an AutoPack file is distributed may be changed by adding the key LOCAL_MACHINE\Software\Tivoli\AutoPack\Expiration and inserting a value indicating the number of days that CURRENT_USER changes should be stored. The default value is ninety days.

7. APAR IX78032. Changes to the AutoPack definition file are lost when the AutoPack definition file is rebuilt through the AutoPack Control Center. (CMVC-39194)

8. APAR IX81256. When you schedule a recurring distribution to multiple endpoints, if the distribution fails to an endpoint, on the following iteration it will only attempt to distribute to the failed endpoint. Subsequent distributions attempt to distribute to all endpoints.
9. APAR IX81511. If you are distributing an executable file to a managed node and that executable is already in use, another file is created on the managed node. The file is named \#filename.exe.1. (CMVC-47014)

10. APAR IX81694. The `wexptrfp -c` option does not work on managed nodes running Windows NT. (CMVC-47832)

11. APAR IX78625. Problems arise with updating an `AUTOEXEC.BAT` file with a two-line `path=` statement. (CMVC-40454)

12. APAR IX78814. When creating an AutoPack, the monitored application modifies the `\winnt\system32\drivers\etc\Services` file. On installation, AutoPack overwrites this file rather than modifies it. (CMVC-40898)

13. APAR IX78999. If you manually modify an AutoPack `.DEF` file and then use the AutoPack Control Center to rebuild the AutoPack file, the manual `.DEF` file changes are lost. (CMVC-41414)

14. APAR IX79146. The `icon_index` field in the `.CHG` file is invalid. When distributing Netscape 4.05 Professional, some icons are displayed as a blank icon. (CMVC-41482)

15. APAR IX79584. BARC scripts that write large amounts of data to `stderr` will no longer cause a method error. A new keyword, `stderr_size`, has been added to the script that is written to the log file. The default value for `stderr_size` is 1024 bytes. The maximum value is 65536 and the minimum value is 0. The value for this keyword can be set using the `-O` option of `wsetfpopts`. If the amount of data written to `stderr` by a BARC script exceeds the value of `stderr_size`, only the last portion of the data will be written to the log file. If this occurs, the amount of data written will be the value of `stderr_size`. (CMVC-42488)

16. APAR IX81393. Distribution of Lotus SmartSuite 97 AutoPack fails when adding a specific value to the Windows NT registry. (CMVC-46493)

17. APAR IX81512. Source after programs (specified with the `src_after_prog_path` keyword) sometimes run twice when
distribution errors occur in conjunction with the ANY CHANGES
distribution option. (CMVC-47015)

18. APAR IX79042. **PROG_ENV** keywords are not being set in the
environment for use by **BARC** scripts. (CMVC-41416)

19. AutoPack file distributions for Lotus SmartSuite scans sometimes
hang. The distribution can even fail after the AutoPack file builds
successfully. (CMVC-38499, CMVC-44802, CMVC-46493)

20. Long directory names are incorrectly added to the AutoPack
change file as short file names in the 8.3 format. (CMVC-39178)

21. The AutoPack change file (.CHG) is not removed from
**c:\windows\temp** after installation on Microsoft Windows 95.
(CMVC-39871)

22. If the **/tmp** (swap file system) is full on the source host, the results
are not written by the **fp_driver** on the distribution log file.
(CMVC-40242)

23. The **wswdistrim**, **wmvapobj**, and **wmvfpobj** commands do not
work from the Windows NT command prompt. (CMVC-40547)

24. When using the Web-based UserLink interface, clicking on the
**Install** button without selecting a package yields a blank screen in
the browser, with no error message. (CMVC-42232)

25. You are incorrectly able to drag-and-drop an AutoPack profile to a
UNIX endpoint subscriber. (CMVC-43052)

26. In configuration programs, if a batch file is specified that has an
input file and either of these files reside in a directory that contains
spaces in the name, such as **Program Files**, the configuration
program can fail. Configuration programs can also fail if the
default endpoint directory contains spaces. (CMVC-43060)

27. When using **wdistrib -m @FilePackage:MyFilePack**, the routine
gives a 0 return code and does not perform a distribution, even
though there are a number of subscribers in the profile manager.
(CMVC-43472)

28. Right-click menu distribution (from an icon) does not differentiate
between LCF endpoint and PC managed node types in the list of
available subscribers. (CMVC-44404)
29. The distribute and commit operation, when logged into the historical database, shows `commit` as the action. It should show `dist&commit`. (CMVC-45047)

30. If a distribution to an endpoint fails, retrying the distribution attempts to distribute only to the failed endpoint. Subsequent distributions resume distribution to all subscribed targets. (CMVC-45138)

31. When the historical database feature is installed and the RDBMS server is down, an AutoPack file distribution fails with a general `oserv` failure. (CMVC-48116)

### Known Defects, Limitations, and Workarounds

The following sections describe the known defects in each maintenance release provided for Tivoli Software Distribution, Version 3.6. The APAR number (if any) precedes the description of each defect, and the defect number (if any) follows the description.

### Defects, Limitations, and Workarounds in Version 3.6.2

Current defects, limitations and workarounds for this release of Tivoli Software Distribution, Version 3.6.2 include:

1. APAR IX77643. Authorization roles are enforced inconsistently when performing a file package distribution from the Tivoli desktop, the command line, or by using drag-and-drop. When distributing with drag-and-drop, the administrator must be authorized with the `admin` role in the policy region of the managed node as well as in the policy region where the file package resides. When distributing with the `Distribute` option from the Tivoli desktop or from the command line, the administrator is only required to have the `admin` role in the policy region where the file package resides. (CMVC-38440)

2. APAR IX83158. If a file package distribution that requires the reboot option is performed, the target system on which the distribution is performed does not reboot if there are applications running during the reboot that must be closed with the user’s intervention. (CMVC-IX83158)
3. APAR IX86037. The role required to modify or create a file package should remain at the senior level. (CMVC-IX86037)

4. APAR IX89224. Using the Brazilian Portuguese version of Software Distribution in a PC agent, the distribution of an Office 97 AutoPack fails. (CMVC-IX89224)

5. APAR IX89507. Tivoli Software Distribution, Version 3.6.2 for NetWare does not support Perl scripts. (CMVC-IX89507)

6. APAR IX89511. MBCS characters are not supported in path file names. (CMVC-IX89511)

7. APAR IX89643. In interconnected TMRs, a drag-and-drop distribution fails at random. (CMVC-IX89643)

8. APAR IY00907. The `wdistfpblock` command can be run by a user with administrator (admin) authorization, not just senior or super authorization. (CMVC-IY00907)

9. APAR IY01188. The user cannot use the `wrpt -k` command to modify the settings for a repeater of an active distribution that is not the most recent one. The following error message displays:

   An entry <ManagedNode OID> was not found in table rpctrl.

10. APAR IY01303. On Windows NT 3.5.1 endpoints, the distribution of AutoPack files that create icons or groups on the desktop fails. (CMVC-63344)

11. APAR IY01569. Using the Brazilian Portuguese version of Windows 95 to create an Internet Explorer 4.0.1 AutoPack file, the following error occurs:

   Error from SHGetFileInfo

   **Note:** Using the Brazilian Portuguese version of Windows 95 the Browser component only can be installed successfully.

   (CMVC-IY01569)

12. The `swdist_queries.sh` script that creates the `SWDIST_QUERIES` query library cannot be run with the default name in an environment with interconnected TMRs.

   (CMVC-45041)

   **WORKAROUND:** Specify a unique name when creating the query library, as shown in the following example:
13. When running `wdistfpblock` and `wrmfpblock` on a file package that contains a configuration program, the UserLink status window is displayed and the distribution log file states the following:

```
Cannot open C:/etc/Tivoli/userlink.ini file
```

However, distribution and removal operations complete successfully. This message is displayed only on Windows endpoints. (CMVC-46380)

14. Non-English characters in host names and host labels are not supported in this release. For some locales, using non-English characters for the file, directory, and object names may cause problems. (CMVC-53906)

**WORKAROUND.** Avoid using non-English characters if you have problems in one of these areas.

15. On Windows NT, and Windows 2000, when you distribute AutoPack files that contain programs such as antivirus or device drivers, and these programs write on a section of the registry that is not monitored by AutoPack, the distribution fails. (CMVC-77228)

**WORKAROUND:** To correctly build an AutoPack file for these programs, it is necessary to delete the following line from the `[RegistryExclude]` section of the `Autopack.ini` file:

```
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Enum
```

In particular, this change must be done for Norton AntiVirus products. It is not recommended to permanently delete this entry from the `Autopack.ini` file because it could cause problems when installing other programs. In fact, that portion of the registry is write-protected and should be modified only by the operating system.

16. AutoPack provides language support for only one locale in each translated language, for example, French (standard) locale for the French translation, so users executing in other locales for that language, for example, French (Canadian), will not see a translated interface. (CMVC-62396, CMVC-81611)

**WORKAROUND:** Copy the language support DLL to a file with
a name that contains the appropriate three-letter suffix for the desired locale. For example, to see French translations of the AutoPack interface in the French (Canadian) locale on Windows NT, copy `\winnt\system32\tivapFRA.dll` to `\winnt\system32\tivapFRC.dll`. On Windows NT, the appropriate three-letter suffix can be found by viewing the following setting in the registry: `HKEY_CURRENT_USER\Control Panel\International\Language`.

17. To properly create a Novell Client AutoPack file on Windows NT, perform the following steps:

a. Modify the `HKEY_LOCAL_MACHINE\System\CurrentControlSet\Enum` key in the `[RegistryExclude]` section of the `Autopack.ini` file as follows:

`HKEY_LOCAL_MACHINE\System\CurrentControlSet\Enum \HTREE`

It is not recommended to permanently delete this key from the `Autopack.ini` file because it could cause problems when installing other programs.

b. Start the AutoPack Control Center. The AutoPack dialog appears.

c. Click **Create Baseline Snapshot** to create the pre-install snapshot.

d. Click **Run**. The Scan Status dialog appears. During the scan phase, the system creates the baseline snapshot and saves the baseline snapshot to the directory path you specified on the General Options page. After the process has completed successfully, the following message appears in the text box:

The scanning completed successfully

Click **OK** to close the AutoPack Control Center.

e. At the end of the installation process, install the Novell Client without rebooting the machine.

f. Reopen the AutoPack Control Center and select **Build AutoPack**. The Build AutoPack dialog appears.
g. Enter the full path of the Novell Client AutoPack file in the Name field and select Run. The Scan Status dialog appears. The AutoPack Control Center takes the second snapshot, compares it to the baseline and creates the AutoPack file. When the process has completed successfully, the following message appears in the Log Messages text box:

Scanning completed successfully

Click OK to close the Scan Status dialog and display the AutoPack Properties dialog.

h. Click Build. The AutoPack Control Center creates the Novell Client AutoPack file by building all the files, options, and system configuration changes necessary to install the application on the target systems. Click OK to close the application.

Note: You must reboot the target system on which you installed the Novell Client AutoPack file to complete the installation.

(CMVC-80322)

18. After installing Microsoft Office 97 with AutoPack, you receive an error message. The error message states that the Tahoma font is missing and that you need to reinstall it.

WORKAROUND: Reboot the target system.

19. Connecting TMRs that exchange resources, it is possible to receive warning or error messages because some resources may have duplicate names. If you run the wchkdb command and it shows ambiguities because there are duplicate file package names, run the following procedure.

WORKAROUND: To remove the ambiguities from the file packages, modify the file package properties performing the following steps:

a. Open the Desktop Navigator from the GUI. The Desktop Navigator dialog appears.

b. Select the File Package resource type from the Navigate To list. The Resources scrolling list refreshes with the names of
the file package resource types.

c. Select the file package that the wchkdb command indicates to be in error and click Go To. The File Package Properties dialog appears.

d. Select from the list contained in the Nested File Packages box the nested file package that has the duplicate name and click Remove.

e. To enter the nested file package name in the nesting file package (parent) correctly, click the File Packages button in the Nested File Packages box. The Select File Packages dialog appears.

f. Select the nested file package from the File Packages list. Note that now the nested file package is displayed in the list with the correct name.

g. Click Select & Close. The File Package Properties dialog appears. The nested file package is displayed correctly in the list of the Nested File Packages box.

h. Click Save & Close.

i. Submit the wchkdb command again to verify file package consistency.

(CMVC-80485)

20. If you uninstall Software Distribution from a TMR that is part of an environment of interconnected TMRs, references to the file packages and AutoPack files created with the removed Software Distribution program still remain in the interconnected TMRs. You cannot remove the references with the wupdate command.

(CMVC-81320)

WORKAROUND: To delete the references to the file packages and AutoPack files created in the removed Software Distribution program, perform the following steps:

a. Delete all the file packages and AutoPack file references from the TMR on which you removed Software Distribution, using one of the following methods:
Known Defects, Limitations, and Workarounds

- `wdel /Regions/<region-name>/<ProfileManager_name>/profile_name`
- `objcail <oid-profile_name> remove`

or, from the Desktop:

- `ProfileManager → Edit → Profiles → Delete`
  where `Profile Manager` is the name of the profile manager from which you want to remove the references.

b. Update these resources for the interconnected TMRs by entering both of the following commands on each interconnected TMR:

- `wupdate -f -r FilePackage <region-name>`
- `wupdate -f -r AutoPack <region-name>`

c. Uninstall Software Distribution from the TMR. No pending references remain.

If you do not follow this procedure, the only way to remove the pending references is to disconnect the TMR from which you deleted Software Distribution. Refer to the TMR Disconnection section of Chapter 4, “Tivoli Management Regions and Inter-Region Connection” of the Tivoli Framework User’s Guide Version 3.6 for the implications of disconnecting TMRs.

21. AutoPack does not support the Japanese PC98 system.
(CMVC-81623)

22. To properly create a Microsoft Internet Explorer 5 AutoPack file on the Windows NT and Windows 95 platforms, perform the following steps:

a. Start the AutoPack Control Center. The AutoPack dialog appears.

b. Click Create Baseline Snapshot to create the pre-install snapshot. The Create Baseline Snapshot dialog appears with the General Option tab active.

c. Enter `c:\IE5Temp` in the Directory field.

d. Select the Files To Exclude tab.
Known Defects, Limitations, and Workarounds

e. Select $(Temp)$ from the list of files to exclude and then click Run. The Scan Status dialog appears. During the scan phase, the system create the baseline snapshot and save the baseline snapshot to the c:\IE5Temp directory. After the process has completed successfully, the following message appears in the text box:

   The scanning completed successfully

   Click OK to close the AutoPack Control Center.

f. Install Internet Explorer 5. During the installation process the Windows Update: Internet Explorer on Internet Tools dialog appears.

g. Click the I do not accept the agreement radio button and then Next. The installation program exits. (You must click the I do not accept the agreement radio button the first time that you run the installation to avoid having to insert the Microsoft Internet Explorer 5 CD-ROM will be required after you reboot the target on which you are installing the Microsoft Internet Explorer 5 AutoPack file.)

h. Restart the Internet Explorer installation and click the I accept the agreement radio button and then Next. The installation starts. At the end of the installation process the Restart Computer dialog appears.

i. Do not click Finish.

j. Open the AutoPack Control Center again and select Build AutoPack. The Build AutoPack dialog appears.

k. Enter the full path of the Internet Explorer AutoPack file in the Name field and select Run. The Scan Status dialog appears. The AutoPack Control Center takes the second snapshot, compares it to the baseline and creates the AutoPack file. When the process has completed successfully, the following message appears in the Log Messages text box:

   Scanning completed successfully

   Click OK to close the Scan Status dialog and display the AutoPack Properties dialog.

l. If you are installing Internet Explorer 5 on a Windows 95
Known Defects, Limitations, and Workarounds

system, perform the following steps otherwise continue to Step m:

1. Select Close.

2. Edit the AutoPackfilename.def file, deleting the following line:

   "Active Setup log.txt"s="C:/windows"d=
   "c:/tmesdist/staging/SystRoot"

   where AutoPackfilename is the name of the full path of the
   Internet Explorer AutoPack file.

   Note: The path could be different in your environment.

3. Save and close the AutoPackfilename.def file.

4. Click Edit AutoPack from the AutoPack Control Center dialog. The Open dialog appears.

5. Select the appropriate AutoPackfilename.def file. Click OK. The AutoPack Properties dialog appears.

   m. Click Build. The AutoPack Control Center creates the Internet Explorer 5 AutoPack file by building all the files, options, and system configuration changes necessary to install the application on the target systems. Click OK to close the application.

   Note: You must reboot the target system on which you installed the Internet Explorer 5 AutoPack file to complete the installation.

If you are installing the Internet Explorer 5 AutoPack file on Windows NT you will notice that after the reboot, during the installation process a message box with the following message can appear:

unable to locate the MSDASQL.DLL

Ignore the message and click OK. The installation completes successfully.

(CMV-C-81029, CMVC-81297)

23. To properly create a Microsoft Office 2000 AutoPack file on Windows 95, Windows 98, or Windows NT, perform the
Following steps:

a. Start the AutoPack Control Center. The AutoPack dialog appears.

b. Click **Create Baseline Snapshot** to create the pre-install snapshot.

c. Click **Run**. The Scan Status dialog appears. During the scan phase, the system creates the baseline snapshot and saves the baseline snapshot to the directory path you entered in the General Options page. After the process has completed successfully, the following message appears in the text box:

   The scanning completed successfully

   Click **OK** to close the AutoPack Control Center.

d. Install Microsoft Office 2000. The Welcome Microsoft Office 2000 dialog appears. Click **Next**.

e. The Microsoft Office 2000 End-User License Agreement dialog appears.

f. Click the **I accept the terms on the License Agreement** radio button and then **Next**. The Microsoft Office 2000: Ready to Install dialog appears.

g. Select the **Customize** icon and then click **Next**. The Microsoft Office 2000 Installation Location dialog appears.

h. Click **Next**. The Microsoft Office 2000: Selecting Features dialog appears.

i. Left-click the icon that corresponds to each feature you want to install. A pop-up menu appears.

j. Select **Run all from My Computer** and then click **Install Now**. The Installing Microsoft Office 2000 dialog appears displaying the status of the installation process. When the installation ends, the Installer Installation dialog appears.

k. Click **No** to end the installation without rebooting the system.

l. Restart the AutoPack Control Center and select **Build AutoPack**. The Build AutoPack dialog appears.

m. Enter the full path of the Microsoft Office 2000 AutoPack file
in the **Name** field and select **Run**. The Scan Status dialog appears. The AutoPack Control Center takes the second snapshot, compares it to the baseline, and creates the AutoPack file. When the process has completed successfully, the following message appears in the Log Messages text box:

*Scanning completed successfully*

Click **OK**. The AutoPack Properties dialog appears. Click **Close**.

n. Edit the **created.chg** file by changing the `replace_newer_files=n` line as follows:

```
replace_newer_files=y
```

Save and close the file.

o. Click **Edit AutoPack** from the AutoPack Control Center dialog. The Open dialog appears.

p. Select the appropriate `AutoPackfilename.def` file. Click **OK**. The AutoPack Properties dialog appears.

q. Click **Build**. The AutoPack Control Center creates the Microsoft Office 2000 AutoPack file by building all the files, options, and system configuration changes necessary to install the application on the target systems. Click **OK** to close the application.

**Note:** You must reboot the target system on which you installed the Microsoft Office 2000 AutoPack file to complete the installation.

If you installed the Microsoft Office 2000 AutoPack file on a Windows 98 target system, the icons of the Microsoft Office 2000 programs are not operational. To activate the links between the programs and the icons, perform the following steps:

r. Right-click the Taskbar and select Properties. The Taskbar Properties dialog appears.

s. Select the Start Menu Programs tab and click **Add**. The Create Shortcut dialog appears.

t. Enter the path of the Microsoft Office 2000 program. If you did not modify the installation path, the program path is:
Known Defects, Limitations, and Workarounds

<drive>:\Program Files\Microsoft
Office\Office\<Executable Program name>

where Executable Program Name can be one of the following:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Executable Program Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excel</td>
<td>Excel.exe</td>
</tr>
<tr>
<td>Access</td>
<td>Msaccess.exe</td>
</tr>
<tr>
<td>Outlook</td>
<td>Outlook.exe</td>
</tr>
<tr>
<td>Power Point</td>
<td>Powerpnt.exe</td>
</tr>
<tr>
<td>Word</td>
<td>Winword.exe</td>
</tr>
</tbody>
</table>

u. Select Next. The Select Program Folder dialog appears.
v. Select the folder where you want to place the shortcut. Click Next. The Select a Title for the Program dialog appears.
w. Enter the name of the executable in the Select a name for the shortcut field.
x. Select Finish. The links to the programs are now operational.

(CMVC-81030)

24. If you defined profile managers or file package profiles with duplicate names in different TMRs that will be interconnected, the file package that corresponds to the profile managers or profiles may not appear in the Userlink for Tivoli Software Distribution Available Packages lists or may not be correctly downloaded.
(CMVC-82062)

25. To properly create a Novell client AutoPack file on Windows 95, perform the following steps:
a. Add the following keys in the [RegistryMonitor] section of the Autopack.ini file:

HKEY_LOCAL_MACHINE\Enum\Network
HKEY_LOCAL_MACHINE\Network
It is not recommended to permanently add these keys to the Autopack.ini file because they could cause problems when installing other programs.

b. Start the AutoPack Control Center. The AutoPack dialog appears.

c. Click **Create Baseline Snapshot** to create the pre-install snapshot.

d. Click **Run**. The Scan Status dialog appears. During the scan phase, the system create the baseline snapshot and save the baseline snapshot to the directory path you entered in the General Options page. After the process has completed successfully, the following message appears in the text box:

The scanning completed successfully

Click **OK** to close the AutoPack Control Center.

e. At the end of the installation process, install the Novell Client without rebooting the machine.

f. Reopen the AutoPack Control Center and select **Build AutoPack**. The Build AutoPack dialog appears.

g. Enter the full path of the Novell Client AutoPack file in the **Name** field and select **Run**. The Scan Status dialog appears. The AutoPack Control Center takes the second snapshot, compares it to the baseline and creates the AutoPack file. When the process has completed successfully, the following message appears in the Log Messages text box:

Scanning completed successfully

Click **OK** to close the Scan Status dialog and display the AutoPack Properties dialog.

h. Click **Build**. The AutoPack Control Center creates the Novell Client AutoPack file by building all the files, options, and system configuration changes necessary to install the application on the target systems. Click **OK** to close the application.

**Note:** You must reboot the target system on which you installed the Novell client AutoPack file to complete the
Known Documentation Defects

The following section lists the known documentation defects for each maintenance release provided for Tivoli Software Distribution, Version 3.6. The APAR number (if any) precedes the description of each defect, and the defect number (if any) follows the description. The revised or corrected text is listed below the description of each documentation defect.

These sections summarize the defects that have been identified in the product documentation since the following manuals were published:

- **Tivoli Software Distribution User’s Guide, Version 3.6**
- **Tivoli Software Distribution Reference Manual, Version 3.6**

These changes will be incorporated in the next publication of the manuals.

**Known Documentation Defects in Version 3.6.2**

Known defects in the documentation for this release of Tivoli Software Distribution are listed below.

1. APAR IX84327. Changes required for `wdistfpblock` command description.

   In Chapter 2 of the Reference Manual, Version 3.6, the synopsis of the `wdistfpblock` command should read as follows:

   ```
   wdistfpblock [(-d | -c | -b)] [-f name] [-o override_arg [-o override_arg]...] [managed_node:]fpblock_pathname target [target...]
   ```

   The new optional arguments have the same meaning as those used in the `wdistfp` command, as follows:
-b Performs distribute and commit operations on the specified subscribers
-c Performs only a commit operation on the specified subscribers
-d Performs only a distribute operation to the specified subscribers (the default value)

In addition, following is a new argument for the **wdistfp**, **wdistfpblock**, **wrmfp**, and **wrmfpblock** commands:

- **f** Specifies an input file that contains a list of targets on which to perform the operation.

(CMVC-48949, CMVC-53272, CMVC-54260)

2. **APAR IX59395**. Change default log file behavior for file package distribution.

In Chapter 1 of the *Reference Manual, Version 3.6*, the default value of the **append_log** keyword should read follows:

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Description</th>
<th>Related to</th>
<th>Valid Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>append_log</td>
<td>Specifies whether to append a notice to the log file when file package distribution, commit, or removal operations are performed.</td>
<td>Reporting or notification</td>
<td>If y, appends the notice to the log file (the default). If n, replaces the existing log file with the notice.</td>
</tr>
</tbody>
</table>

(CMVC-IX59395)

3. **APAR IX69504**. When copying a file package from one profile manager to another profile manager, all optional information is lost.

The following information should be added to Chapter 6 of the *User’s Guide, Version 3.6*:

In addition to cloning a profile, which makes an exact copy (except for the name) of a file package or AutoPack, you can also copy and
move Software Distribution profiles.

**Copying a Software Distribution Profile**

When you copy a profile from a profile manager, an exact copy of the original profile contained in the profile manager is made. This operation requires **senior** authorization.

**Moving a Software Distribution Profile**

When you move a profile from one profile manager to another, you are actually deleting the profile from one profile manager and inserting it in another. The profile is not only deleted from the profile manager; it is deleted from all subscribers to the profile manager. Before moving a profile, you should consider the effects of deleting the profile from the profile manager where it is currently located. This operation requires **admin** authorization.

Cloning, copying, or moving a Software Distribution profile differs from performing the same operations on other types of Tivoli application profiles. Software Distribution profiles include information about, and paths to, data that will be distributed from one location to another. Information related to this data is cloned, copied, or moved to the new profile. However, neither Software Distribution policy, which is not profile-based, nor file package attributes (with the exception of the `src_host` attribute) can be cloned, copied, or moved.


(CMVC-IX69504, CMVC-25715)

4. APAR IX71780, IX78742. Clarify use of the `list_path` keyword.

In Chapter 1 of the *Reference Manual, Version 3.6*, the description of the `list_path` keyword, which designates the name of the log file created during a distribution or removal, should indicate that for a DOS file system, the file package name must be eight characters or
Known Documentation Defects

5. APAR IX75036. Clarify description of user rights and access permissions.

In order to resolve error messages stating that permission has been denied, a user must have full rights to the directory structure to which he is distributing file packages. (CMVC-34804)

6. APAR IX75202. Users can delete profile managers even though they contain file package and AutoPack profiles.

In Chapter 6 of the User’s Guide, Version 3.6, it should be noted that you can delete profile managers even if they are not empty. (CMVC-IX75202)

7. APAR IX80533. Man page entry for wgetfpattr command is incorrect.

In Chapter 2 of the Reference Manual, Version 3.6, the use of the wgetfpattr command needs clarification. Unlike the wsetfpattr command, which sets file package attributes, wgetfpattr simply retrieves the current values of the attributes. In addition, for the -b argument, barc_input, not program_input, is a possible value. For the -h argument, if a source host is not defined for a file package, the value shown should be NULL, not OBJECT_NIL. (CMVC-43996)

8. APAR IX82215. Clarify that some commands must be run in bash mode.

In Chapter 2 of the Reference Manual, Version 3.6, it should be noted that Perl scripts, such as wswdistrim, wmvapobj, and wmvfpobj, must be run from a bash shell, not from a DOS CMD shell. (CMVC-IX82215)

9. APAR IX83201. Very large file packages cannot be distributed.

File packages larger than 2 GB in size cannot be distributed. (CMVC-IX83201)

10. APAR IX85578. Documentation of wrunuiep command is missing.

In Chapter 2 of the Reference Manual, Version 3.6, the description
of the \texttt{wrunuiep} command is missing, which runs Windows NT GUI-based applications that require access to the visible desktop. The syntax is as follows:

\begin{verbatim}
wrunuiep \[-e\] command \[args\]
\end{verbatim}

The options include the following:

\texttt{-e} \quad Adds secure access permissions, which are required for certain applications, to the visible desktop for the user ID of the calling process. This secure access remains in place until the logged-on user ends the Windows NT session or restarts the system.

(CMVC-IX85578)

11. APAR IX86035. AutoPack doesn’t reboot after reboot options have been set.

When \texttt{reboot_if_necessary} is set to \texttt{y}, only locked files in the system directory (for example, WINNT) that need replacement will cause a reboot. (CMVC-IX86035)

12. APAR IX86230. Unable to create a file package without specifying a destination directory path for at least one platform.

In Chapter 8 of the \textit{User’s Guide}, it should be noted that, in order to create a file package, at least one platform must be specified for the \textbf{Destination Directory Path} field on the \textbf{File Package Options} dialog. When at least one platform but no default directory is specified, the file package is distributed to the default directory. (CMVC-IX86230)

13. APAR IX86514. Description of \texttt{idlcall} command is incorrect.

In Appendix A of the \textit{AutoPack User’s Guide, Version 3.6}, the description of \texttt{idlcall} usage is inaccurate. The correct sequence of commands follows:

a. To search for all instances of the \textbf{AutoPack} resource type in the Tivoli Name Registry (TNR), run the Framework \texttt{wlookup} command:

\begin{verbatim}
 wlookup -ar AutoPack
\end{verbatim}

b. When you’ve obtained the object identifier (OID) of the
AutoPack, run the Framework `idlattr` command to set the AutoPack profile properties:

```
idlattr -ts <oid> autopack_file
APack::path_desc_struct '{"nodename"
"path/to/file/autopackname.pak"}'
```

c. Run the Framework `idlcall` command to view the results:

```
idlcall -tg <oid> autopack_file
APack::path_desc_struct
```

See the Reference Manual, Version 3.6 for more information on these commands. (CMVC-IX86514)

14. APAR IX87165. Fix examples associated with sample directories.

In Chapter 7 of the User's Guide, Version 3.6, in the description of the target machine hierarchy resulting from the use of the Descend into directories and Append source path to remote path check boxes, references to the directory token `dir` should be replaced with `dir1`, for example, `/tmp/hpux/dir1/f3`. (CMVC-IX87165)


Due to formatting problems, the index of the Reference Manual, Version 3.6 contains incorrect entries. In particular, all entries with the prefix `6-` should be listed as `5-`, all entries with the prefix `7-` should be listed as `6-`, and all entries with the prefix `8-` should be listed as `7-`. (CMVC-IY02568)

16. When installing applications using AutoPack, change the All Users profile on the target system to specify that all Program Manager and desktop changes should be made available to all users. In addition, if prompted during the installation of an application, you should specify that the installation be made available to all users, in order to optimize AutoPack function. (CMVC-48127)

17. In Chapter 1 of the Reference Manual, Version 3.6, the description of the `backup_fmt` keyword should note that the `%n` token, which increments the numeric index value automatically, can be used only once in a particular backup format. (CMVC-48636)
18. When distributing a filepack that defines a list of files and none of the files in the list exists, BARC scripts will not be run, even if the **stop_on_error** option has not been set. (CMVC-48930)

19. In Chapter 2 of the *Reference Manual, Version 3.6*, note that for all commands, the correct return code values documented under the RETURNS heading should be:

- **0** Indicates the successful completion of the command.
- **non-zero** Indicates that the command failed.

In addition, these codes are returned on exiting the program, and not written to standard output as documented. (CMVC-53375)

20. In Chapter 4 of the *Reference Manual, Version 3.6*, the location of the redirected output of a Software Distribution after program is not specified. The output can be found at the following location: \tivoli\lcflcf\dat#\mesdist.log (CMVC-53389)

21. In Chapter 2 of the *Reference Manual, Version 3.6*, in the description of the **target** variable, note that endpoints are also valid targets to which file package block files can be distributed. (CMVC-54177)

22. In Chapter 1 of the *Reference Manual, Version 3.6*, the description of the **default_mtime** keyword should read as follows:
23. In Chapter 3 of the Reference Manual, Version 3.6, remove the `fp_val_delete_src_host` policy method from the list of policy methods that run in the policy region of the source host.

24. In Chapter 9 of the User's Guide, Version 3.6 and Chapter 1 of the Reference Manual, Version 3.6, the description of distribution timeouts is not accurate, as outlined below:
   - The default value for the `progs_timeout` attribute, which is the time-out value for all configuration programs specified in the file package, is 0, not -1. If set to 0, the time-out is set to \( n \) seconds, where \( n \) is the value of the repeater manager time-out, as set by the `wrpt -T` command. If set to -1, zero time-out results, and the distribution will fail as soon as the configuration program starts.
   - The `progs_timeout` attribute is recognized by endpoints, as well as by PC agents Version 5.01 and later.
Other Documentation Changes

1. In Chapter 2 of the *User's Guide, Version 3.6*, it is erroneously stated that you must have the Tivoli Enterprise Console (TEC) installed to use Tivoli Software Distribution TEC Integration.

   To use this Software Distribution facility, you must only have the Tivoli Enterprise Console Server installed prior to installing the Software Distribution TEC Integration component. However, Tivoli recommends that you install the Tivoli Enterprise Console in order to view events that Software Distribution sends to the Tivoli Enterprise Console event server when a Software Distribution operation is performed.

2. In Chapter 1 of the *Reference Manual, Version 3.6* and Chapter 8 of the *User's Guide, Version 3.6*, it should be noted that the `preproc` and `postproc` keywords do not operate on lightweight client framework (LCF) clients.

3. In the Preface of both the *User’s Guide, Version 3.6* and the *Reference Manual, Version 3.6*, the following list of supported platforms should read as follows:

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Supported Versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX 4.x</td>
<td>Managed Node, Endpoint: IBM RS/6000 series running AIX, Versions 4.1, 4.2, and 4.3</td>
</tr>
<tr>
<td>AS/400</td>
<td>Endpoint: V3R2, V3R7, or higher</td>
</tr>
<tr>
<td>HP-UX</td>
<td>Managed Node, Endpoint: HP9000/700 and 800 series running HP-UX, Versions 10.01, 10.10, 10.20 and 11.00</td>
</tr>
</tbody>
</table>
### Platforms

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Supported Versions</th>
</tr>
</thead>
</table>
| **NetWare** | **Note:** Tivoli products are not supported on NetWare systems running the SFT III high-availability configuration or the SMP (Symmetric Multi Processor) add-on package.

**PC Agent:** IBM-compatible PCs 486 or higher running Novell NetWare, Versions 3.11, 3.12, 4.01, 4.1, and 4.11

**Endpoint:** IBM-compatible PCs 486 or higher running Novell NetWare, Versions 3.11, 3.12, 4.01, 4.1, 4.11, and 5.0 |
| **OS/2** | Tivoli Desktop for Windows, PC Agent: IBM- Compatible PCs 486 or higher running IBM OS/2, Versions 2.0, 2.1, Warp 3.0, and Warp 4.0 with Win-OS/2

**Endpoint:** IBM-Compatible PCs 486 or higher running IBM OS/2, Versions 2.0, 2.1, Warp 3.0, Warp 4.0 with Win-OS/2, and OS/2 Warp Server for e-business

**Managed Node:** IBM-Compatible PCs 486 or higher running IBM OS/2, Warp 3.0, Warp 4.0 with Win-OS/2, and OS/2 Warp Server for e-business |
| **Solaris** | Managed Node, Endpoint: Sun SPARC series running Solaris, Versions 2.4, 2.5, 2.5.1, 2.6, and 7.0 |
| **SunOS** | Managed Node, Endpoint: Sun SPARC series running SunOS, Versions 4.1.3 and 4.1.4 |
| **Windows** | Tivoli Desktop for Windows, PC Agent, Endpoint: IBM-Compatible PCs 486 or higher running Microsoft Windows Versions 3.1 and 3.11, Windows 95, and Windows 98 |
The following section describes the Tivoli Management Framework defects that impact Software Distribution:

1. APAR IY01104. The initial login for an endpoint does not update the `userlink.htm` file. (CMVC-IY01104)
2. APAR IY01115. Shell scripts containing the `xcopy` command do not work. (CMVC-IY01115)
3. APAR IY01247. After installing endpoints to Windows NT

---

**Platforms** | **Supported Versions**
---|---
**Windows NT** | Tivoli Desktop for Windows, PC Agent, Managed Node: IBM-Compatible PCs 486 or higher running Microsoft Windows NT, Versions 3.51 SP5, 4.0, 4.0 SP3, 4.0 SP4, and 4.0 SP5
| Endpoint: IBM-Compatible PCs 486 or higher running Microsoft Windows NT, Versions 3.51 SP5, 4.0, 4.0 SP3, 4.0 SP4, 4.0 SP5, and Windows 2000
| **Note:** Tivoli Systems has verified the operation of this product on a prerelease version of the Microsoft Windows 2000 operating system. However, support of Tivoli products operating on Windows 2000 will not begin until testing is complete on the general availability version of Windows 2000. Any revisions to the operational procedures that might be required following the general availability of Windows 2000 will be documented in an online update of these release notes. The online update of these release notes will be posted on the Tivoli Customer Support Web site. See “Additional Information” on page 4 for the URL of this Web site.
Software Distribution for AS/400 Endpoints

systems, the **wep** status works fine, but any attempt to use the endpoint for software distribution or inventory purposes fails with the following error:

```
ipc receive error: connection reset by peer.
```

(CMVC-IY01247)

4. The return code from batch files on Windows 95 endpoints is always 0. (CMVC-28628)

5. The reboot option is supported only for Windows endpoint platforms. (CMVC-31071)

6. On NetWare endpoints, NLM-supported configuration programs must be fully qualified when residing on subscribers. (CMVC-37396)

7. Using the Software Installation Service (SIS), Version 3.6.1, it is not possible to install the following Tivoli Software Distribution, Version 3.6.2 components because some prerequisite checks fail:

   - Tivoli Software Distribution TEC Integration, upgrade to Version 3.6.2
   - Tivoli Software Distribution Historical Database, upgrade to Version 3.6.2. (CMVC-78974)

---

**Software Distribution for AS/400 Endpoints**

This section contains the information required if you plan to distribute AS/400 software. Used in conjunction with Tivoli Inventory, Software Distribution enables you to manage the deployment of new software products to all of your AS/400 systems.

Tivoli provides the Tivoli Object Packaging Utility for AS/400 to quickly and efficiently create AS/400-specific file package blocks (fpblocks) for distribution to AS/400 systems. If you use the Tivoli Object Packaging Utility for AS/400, you must ensure that Client Access/400 is installed on the Windows systems except Windows NT 3.5.1 on which you plan to package AS/400 software applications.

**Installation Prerequisites**

Satisfy the following requirements before installing Tivoli Software
Software Distribution for AS/400 Endpoints

Distribution for AS/400 Endpoints:

- Tivoli Framework, Version 3.6.1, must be installed in your Tivoli Management Region (TMR).
- The following patches contained in the /as4patch directory of the Tivoli for AS/400 Endpoints, Version 3.6.1 CD-ROM must be installed in your TMR:

**3.6.1-TMF-0001**

Tivoli Framework Gateway for AS/400 Endpoints, Version 3.6.1, which contains the Framework methods to be installed on the endpoint gateway to support AS/400 endpoints.

**3.6-TMF-0002**

Tivoli Task Library for AS/400 Endpoints, Version 3.6, which contains the Framework task library to support AS/400 endpoints.

**Note:** This is the same patch provided with Version 3.6.

- Tivoli Software Distribution, Version 3.6 or Tivoli Software Distribution, Version 3.6.1, must be installed in your TMR.


**Object Packaging Utility for AS/400**

Using Tivoli Software Distribution, you can distribute and deploy software to AS/400 endpoints throughout the network. The Object Packaging Utility for AS/400 creates AS/400-specific file packages to be used with Software Distribution.

Before installing the Object Packaging Utility for AS/400, complete the following steps:

2. Ensure that Client Access/400 is installed and configured on the system to be used to prepare AS/400 file packages.

3. Ensure that this system is connected to the AS/400 Software Distribution source host.

4. Install the Software Distribution for AS/400, Version 3.6.2 patch on the endpoint gateway managing the AS/400 endpoints.

5. Run the `packinst.sh` script to install or upgrade support for the Object Packaging Utility for AS/400. This script is located in the `$BINDIR\lcf_bundle\generic\` directory. The only argument for this script is the name of the AS/400 endpoint.

### Installing the Object Packaging Utility

To install the Object Packaging Utility for AS/400, Version 3.6.2, on any Windows system except Windows NT 3.5.1, complete the following steps:

1. From the Windows File Manager or Program Manager dialog, select `File` → `Run`. The Run dialog appears. In the `Open` field, enter the `SETUP.EXE` file path, which resides in the `X:\as4pack\cdrom\obj_pack` directory on the CD-ROM, where `X` is the CD-ROM drive where the AS/400 CD-ROM is inserted.

2. Click **OK** to run the setup program and display the Welcome dialog for the Object Packaging Utility for AS/400.

   The setup program leads you through the Object Packaging Utility for AS/400 installation. Use the **Back**, **Next**, or **Cancel** buttons to navigate through these dialogs. The default installation location is the `C:\Program Files\Tivoli\ObjPackAS400\` directory. Click **Browse** to navigate through the directory structure and specify another directory if you want to set a different location.

   Click **Next** to continue the installation.

3. To start the Object Packaging Utility, double-click on the `as4pack.exe` icon from the **ObjPackAs400** dialog or select the Tivoli Object Packaging Utility for AS/400 option from the **Start** → **Programs** → **Tivoli** menu.
Uninstalling the Tivoli Object Packaging Utility, Version 3.6.2

To uninstall the Tivoli Object Packaging Utility for AS/400, Version 3.6.2, you can now perform the following steps using the Object Packaging Uninstall folder:

1. Select Start → Programs → Object Packaging Utility for AS/400 → Object Packaging Uninstall. The following message appears:

   Are you sure you want to completely remove the selected application and all its components?

2. Click Yes to uninstall the product.

Defects Fixed

The following sections describe the known defects in each maintenance release provided for Tivoli Software Distribution for AS/400, Version 3.6 Endpoints. The APAR number (if any) precedes the description of each defect, and the defect number (if any) follows the description.

Defect Fixed in Version 3.6.2

The following defect was fixed for Tivoli Software Distribution for AS/400, Version 3.6.2:

- When the Object Packaging Utility for AS/400 is uninstalled, its icon is not removed. The user must remove the icon manually through Windows Explorer. (CMVC-40436)

Defect Fixed in Version 3.6.1

Defects fixed for Tivoli Software Distribution for AS/400 Version 3.6.1 include:

1. Configuration programs and input files do not properly install in the destination directory or library unless the install_progs keyword is set to y. (CMVC-41786)

2. If a configuration program fails it is not possible to locate and identify the failure information easily. (CMVC-43193)
Known Defect Limitations, and Workarounds

The following section lists the known defects for each maintenance release provided for Tivoli Software Distribution for AS/400, Version 3.6. The APAR number (if any) precedes the description of each defect, and the defect number (if any) follows the description.

Defects, Limitations, and Workarounds in Version 3.6.2

Current defects, limitations and workarounds for this release of Tivoli Software Distribution for AS/400, Version 3.6.2 include:

1. If a configuration program located on a source host contains an input file, and the input file destination is a QSYS path name, the input file is created by default as an AS/400 source physical file. (CMVC-80265)

   WORKAROUND: If a data file is required, use the following AS/400 command to convert a source physical file to a data file:
   
   CPYF FROMFILE (LIBNAME/SOURCE_FILE) +
   TOPFILE(LIBNAME/DATA_FILE) MBROPT(*ADD) FMTOPT(*CVTSRC)

2. If a configuration program contained in a file package fails, instead of the actual non-zero return code the log file shows the string. (CMVC-80127)

   WORKAROUND: Go to the AS/400 endpoints where the distribution failed and check the job log file. The job log file contains the actual error code.

3. If a file package installation contains files that are currently locked on the target that the file package addresses, an error condition results and the installation fails. (CMVC-80724)

   WORKAROUND: Close the locked files and retry the distribution.

4. The Distribute Entries with ANY changes option does not work if the destination directory of the file package is a QSYS path. If this option is used all the files contained in the file package are re-installed. (CMVC-82027)
Defects, Limitations, and Workarounds in Version 3.6.1

Current defects, limitations and workarounds for this release of Tivoli Software Distribution for AS/400, Version 3.6.1 include:

1. When creating a file package block (fpblock) with the Object Packaging Utility for AS/400, the system hangs if the network connection between the AS/400 system and the Windows systems where you are creating the fpblock is lost. (CMVC-38013)

   WORKAROUND: Perform the following procedure:
   a. Close the Object Packaging Utility.
   b. Re-establish the network connection through Client Access/400.
   c. Re-issue the create for the file package block.

2. The Object Packaging Utility for AS/400 cannot be used on Windows NT, Version 3.5.1, because Client Access/400 is not supported for this operating system. However, installing the Object Packaging Utility for AS/400 on a Windows NT 3.5.1 system does not generate an appropriate error message. (CMVC-40250)

3. APAR IX87114. When you create a file package with the Tivoli Desktop and distribute it to a QSYS destination, you cannot control the member for the target file. Data bound for a *FILE in the QSYS file system are always placed in the member named the same as the file. The file will be named as specified in the Destination Directory Path field (or with the keyword os400_platform_prefix).

   For example, if you specify in the Destination Directory Path field the following:
   
   `/QSYS.LIB/QUSRSYS.LIB/QAYMACD.FILE`

   and distribute the following data:

   `/USRA/TIVOLI/TECADAPTERS/AS400/MSGCDS`

   The data is placed as follows:
   - Library QUSRSYS
   - File QAYMACDS
   - Member QAYMACDS (not MSGCDS)
Known Documentation Defects

The following section lists the known documentation defects for each maintenance release provided for Tivoli Software Distribution for AS/400, Version 3.6. The APAR number (if any) precedes the description of each defect, and the defect number (if any) follows the description. The revised or corrected text is listed below the description of each documentation defect.

These sections summarize the defects that have been identified in the product documentation since the Tivoli for AS/400 Endpoints User’s Guide, Version 3.6 was published. These changes will be incorporated in the next publication of the manual.

Known Documentation Defects in Version 3.6.2

Known defects in the documentation for this release are listed below.

1. The Configuration Programs section of Chapter 7, “Tivoli Software Distribution for AS/400 Endpoints” is not accurate as outlined below:
   - The CL and the C configuration programs that are located in the source host must be in the *SAVF format (AS/400 save files).
   - The REXX executable and the AS/400 batch jobs scripts that are located in the source host must be in ASCII text format.

   (CMVC-81651)

2. In Chapter 7, the Desktop section of the Creating File Packages with the Tivoli Desktop heading is not accurate as outlined below:

   In the Enter Program Name field, if you specify a REXX or an AS/400 batch job script that is located in a multiple member file on the AS/400 subscriber, the script file path must be a QSYS path as follows:
3. In Chapter 7, a Processing Command Line Arguments section needs to be added before the Input File section. The contents of the section follows:

When Software Distribution runs a configuration program, it passes command line arguments to the program to specify the file package operation in progress. For detailed information on the command line arguments, see the *Tivoli Software Distribution Reference Manual, Version 3.6*. The command line arguments are passed as fixed-length variables to the AS/400. When writing the configuration program use the following length:

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Char</td>
<td>20</td>
</tr>
<tr>
<td>yyyy_xxx_input_path</td>
<td>Char</td>
<td>60</td>
</tr>
<tr>
<td>ams_inst_sw_comp_handle</td>
<td>Char</td>
<td>10</td>
</tr>
</tbody>
</table>

**AS/400 CL BARC Script Example**

Use the following CL configuration program to check, install, and restore an AS/400 Licensed Program. The before option is used to check if the Licensed Program is already installed and, if necessary, to send an *ESCAPE* message to skip the file package installation. The *ESCAPE* message type, must be used when you select the **Skip distribution to a host on non-zero exit code of file file package option**. The **after** and **commit** options are used to restore the Licensed Program after a successful install or commit operation. The program sends messages to the QTIVOLI user to notify the program execution.

```plaintext
SEU==> EXAMPLE
************************** Beginning of data**************************

0001.00 PGM PARM(&WHOCALLED &FILENAME &TME_APPL)
```
Software Distribution for AS/400 Endpoints

Tivoli Software Distribution Release Notes 93

0002.00
0003.00  DCL  VAR(&WHOCALLED) TYPE(*CHAR) LEN(20)
0004.00  DCL  VAR(&FILENAME) TYPE(*CHAR) LEN(60)
0005.00  DCL  VAR(&TME_APPL) TYPE(*CHAR) LEN(10)
0006.00  DCL  VAR(&MSGID) TYPE(*CHAR) LEN(7)
0007.00  DCL  VAR(&MGSTDAT) TYPE(*CHAR) LEN(80)
0008.00  DCL  VAR(&PRODID) TYPE(*CHAR) LEN(7)
0009.00  DCL  VAR(&SAVFILE) TYPE(*CHAR) LEN(12)
0010.00  DCL  VAR(&MSG0) TYPE(*CHAR) LEN(150)
0011.00  DCL  VAR(&MSG2) TYPE(*CHAR) LEN(150)
0012.00  DCL  VAR(&MG3) TYPE(*CHAR) LEN(150)
0013.00  CHGVAR  VAR(&PRODID) VALUE(5763CX2)
0014.00  CHGVAR  VAR(&SAVFILE) VALUE(A5763CX2)
0015.00  CHGVAR  VAR(&MSG1) VALUE('Product ' *CAT &PRODID *CAT + 'not installed. Continue with installation')
0016.00  IF  COND(&WHOCALLED *EQ 'before') THEN(DO)
0017.00   CHKPRDOPT PRDID(&PRODID) RLS(*ALL)
0018.00   MONMSG MSGID(CPF0C4A) EXEC(DO)
0019.00   SNDMSG MSG(&MSG1) TOUSR(QTIVOLI)
0020.00   SNDMSG MSG(&MSG2) TOUSR(QTIVOLI)
0021.00   RSTLICPGM LICPGM(&PRODID) DEV(*SAVF)
0022.00   SNDMSG MSG(&MSG3) TOUSR(QTIVOLI)
0023.00   IF  COND(&WHOCALLED *EQ 'after') THEN(DO)
0024.00   SNDMSG MSG(&MSG1) TOUSR(QTIVOLI)
0025.00   SNDMSG MSG(&MSG2) TOUSR(QTIVOLI)
0026.00   SNDMSG MSG(&PRODID) TOUSR(QTIVOLI)
0027.00   GOTO  EXIT
0028.00   ENDDO
0029.00   ENDDO
0030.00   SNDMSG MSG(&MSG1) TOUSR(QTIVOLI)
0031.00   SNDMSG MSG(&MSG2) TOUSR(QTIVOLI)
0032.00   SNDMSG MSG(&MSG1) TOUSR(QTIVOLI)
0033.00   SNDMSG MSG(&MSG2) TOUSR(QTIVOLI)
0034.00   ELSE  CMD(IF COND(&WHOCALLED *EQ 'after') +
0035.00      THEN(GOTO CMDLBL(RESTORE)))
0036.00   ELSE  CMD(IF COND(&WHOCALLED *EQ 'commit') +
0037.00      THEN(GOTO CMDLBL(RESTORE)))
0038.00   ELSE  CMD(GOTO CMDLBL(ERROR))
0039.00       RSTLICPGM LICPGM(&PRODID) DEV(*SAVF)
0040.00       SNDMSG MSG(&MSG3) TOUSR(QTIVOLI)
0041.00       RSTLICPGM LICPGM(&PRODID) DEV(*SAVF)
0042.00   IF  COND(&WHOCALLED *EQ 'commit') THEN(DO)
0043.00   SNDMSG MSG(*THE SOFTWARE DISTRIBUTION

Tivoli Software Distribution Release Notes 93
4. In Chapter 7, in the Return Status of Configuration Programs section the following note must be added:

**Note:** To interrupt the execution of a CL BARC script program that will end with a non-zero return code status, use the *ESCAPE message type.

---

**Other Documentation Changes**

The following section lists other documentation changes that affect Chapter 7, “Tivoli Software Distribution for AS/400 Endpoints” of the *Tivoli for AS/400 Endpoints User’s Guide, Version 3.6*:

1. To increase security, ownership of objects distributed to an AS/400 endpoint defaults to user account *QTIVUSER*, and the *PUBLIC* attribute for these object defaults to *EXCLUDE*. This means that you must have *ALLOBJ* authorization to manipulate these objects. After a successful distribution, use after scripts to change ownership of these objects.

**Note:** The user *QTIVUSER* cannot log into an AS/400 system.

2. Each file package specifies the location of its distribution log file. This log file contains summaries of the distribution to each AS/400 endpoint by job ID. An example summary in this distribution log file is the following:

```
AS/400 Job ID: 10239/QTIVROOT/COURIER
```

where **10239** is the ID, **QTIVROOT** is the user account, and **COURIER** is the job name.

If a distribution fails to an AS/400 endpoint, knowing this job ID is the key to learning what occurred from the AS/400 endpoint point of view.

After reading the log file to obtain the job ID for the specific AS/400 endpoint distribution, go to that system and enter the...
following command on the command line:

\texttt{WRKJOB \ JobID}

where \texttt{JobID} is the qualified job name for the distribution.

\section*{Product Notes}

This section contains important information that you should consider when using Software Distribution.

Prior to Tivoli Software Distribution, Version 3.6, you could run configuration scripts that utilized both Tivoli CLIs and bash scripts on Windows 95 and Windows NT. Tivoli Software Distribution, Version 3.6 and Version 3.6.1, call for these features to be disabled by default as part of the TMA client.

In order to run an executable file as a configuration program on a TMA endpoint, the executable files must be present on the endpoint. TMA endpoints do not automatically have these files available, so they must be set as dependencies for Software Distribution. Once you have created dependencies, they are associated with the Software Distribution methods so the executables will be downloaded automatically during a distribution if they do not already exist on the endpoint.

Dependencies can be added to the \texttt{courier_lcf} dependency set, but it is better to create additional dependency sets. In this way, if you want to revert to the original configuration, it is necessary to delete only the additional dependency sets.

The following sections describe how to set the dependencies for the executables you want to run on specific endpoints. Note that after dependencies are created, they must be associated with the Software Distribution methods in order to run.

\section*{Setting Dependencies for CLIs on Endpoints}

The CLIs are located in $\texttt{BINDIR/..}/\texttt{lcf\_bundle/bin/pc\_interp/PCagent\_clis}$, where \texttt{pc\_interp} is the interpreter type. Valid interpreter types are as follows:

- Novell NetWare, Version 3.0 (\texttt{nw3})
- Novell NetWare, Version 3.0 (\texttt{nw4})
CLIs must exist on the endpoint in the TAS/MANAGED_NODE directory in order for Software Distribution to access them. Add a –a statement for each CLI you wish to run, as in the following example:

```
wdepset -c win95_deps -a win95 bin/win95/PCagent_clis /waddicon.exe +a +p cache/bin/win95/TAS/MANAGED_NODE -a 
win95 bin/win95/PCagent_clis/wclrblk.exe +a +p 
cache/bin/win95/TAS/MANAGED_NODE
```

### Setting Dependencies for bash Scripts on Windows NT Endpoints

A dependency set must be created that contains a dependency for every bash executable you want to run on the endpoint. The binaries are located on the TMR server in the following directory:

```
$BINDIR/../lcf_bundle/w32-ix86/tools
```

The target location on the endpoint for these binaries is important. If the executables are in the wrong location on the endpoint, the bash script will not run. The correct location is

```
LCF_DATDIR\..\..\bin\w32-ix86\tools, which can have an alias of %TOOLS%.
```

`LCF_DATDIR` is an environment variable set by the endpoint upon startup. To determine the location of `LCF_DATDIR`, you can specify –d3 as a startup parameter to Tivoli Endpoint on the Windows NT Services GUI. Select Settings –> Control Panel –> Services from the Start menu, then view the lcfd.log log file.

At a minimum, you must include bash and the `win32gnu.dll` files. When the executables are located on the gateway and the target location is on the endpoint, the dependency set command resembles the following:

```
wdepset -c bash_deps -a w32-ix86 bin/w32-ix86/tools/bash.exe +a 
+p %TOOLS% -a w32-ix86 bin/w32-ix86/tools/win32gnu.dll.exe +a 
+p %TOOLS%
```
Setting Dependencies for User-defined Scripts and Programs

Dependencies can be set for any custom script or program that you want to run on the endpoint by modifying the above commands. Remember that all paths are relative to $BINDIR/../lcf_bundle, so any custom programs must reside in this directory. Ensure that you specify the correct interpreter type and path to TAS/MANAGED_NODE so the endpoint can find the program. For example:

wdepset -c my_deps -a w32-ix86 bin/my_dir/my_cust_prog1.exe +a +p cache/bin/w32-ix86/TAS/MANAGED_NODE -a w32-ix86 bin /my_dir/my_cust_prog2.exe +a +p cache/bin/w32-ix86/TAS /MANAGED_NODE

Associating Dependencies with Software Distribution Methods

Once you have created dependencies, you must associate them with Software Distribution methods so that the executables will be automatically downloaded (if needed) to the endpoint prior to distribution. Only one dependency set definition can be associated with a particular method, but nested dependency sets can be specified on the same definition. You can add as many nested dependencies as you want. Following is an example of how to create a nested dependency set:

1. Enter the following command:

   wdepset -c all_deps -a depset @DependencyMgr:courier_lcf \
   -a depset @DependencyMgr:win95_deps \
   -a depset @DependencyMgr:winNT_deps \
   -a depset @DependencyMgr:my_deps

   **Note:** The **courier_lcf** dependency set must be included in the nested dependencies. Failure to add **courier_lcf** will result in distribution problems.

2. Associate the dependencies with Software Distribution methods:

   wchdep @Classes:TMF_FP @DependencyMgr:all_deps fps_install
   wchdep @Classes:TMF_FP @DependencyMgr:all_deps fps_uninstall

3. Synchronize the gateway method cache with the TME server:

   wgateway my_gw_name dbcheck