



ThinkVantage Productivity Center Deployment Guide

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Preface

This guide is intended for IT administrators or those who are responsible for deploying the ThinkVantage® Productivity Center program on computers in their organizations. The purpose of this guide is to provide the information required for launching and customizing ThinkVantage Productivity Center, which is a collection of tools and utilities that help users improve their productivity, computing security, and system connectivity.

ThinkVantage Technologies and the deployment guides that accompany them are developed for IT professionals to meet the challenges that they might encounter. If you have suggestions or comments, contact your Lenovo® authorized representative.

To learn more about the technologies and to check for periodic updates to this guide, go to the Lenovo Web site at:
<http://www.lenovo.com>

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Chapter 1. Introducing ThinkVantage Productivity Center

ThinkVantage Productivity Center can help increase productivity by guiding you toward self-help on ThinkPad® and ThinkCentre® systems and by facilitating the broader adoption of related ThinkVantage Technologies. You can tailor ThinkVantage Productivity Center to your particular environment by introducing specific Web links, applications, and help files.

Users can launch ThinkVantage Productivity Center by clicking the **ThinkVantage Productivity Center** icon on the desktop, using the Windows® **Start** menu, or pressing the **ThinkVantage** button (the blue button).

ThinkVantage Productivity Center is a collection of tools and utilities that help users improve their productivity, computing security, and system connectivity. It consists of the following three sections:

- Quick Links enables users to launch the most frequently used tasks with a single mouse click. The users can choose the items in Quick Links, and can add their own applications.
- Resource Center serves as a portal to the most commonly used ThinkVantage Technologies, Think Utilities and Help. Resource Center contain the following categories:
 - Maintenance provides access to tools, such as Away Manger that enables users to select maintenance tasks to run while they are away from their computers.
 - Wireless provides access to the tool that manages wired and wireless connectivity.
 - Device configuration provides access to tools for presentation or power management, or various settings, including network, screen display, pointing devices, or audio features.
 - Security, Protection and Recovery provides access to tools to protect your computer or back up and recover the data on your computer.
 - Multimedia Management provides access to the multimedia tools.
 - Communication and Networking provides access to the tools to set up the network environment.
 - Small Business Essentials provides access to the tools for small business users.
 - Help and Support provides access to the online Help Center, where users can select one of the following three subtopics: "Learn about my computer," "Get help and support," and "Browse other offerings."
- Message Center is a portal through which the users can receive hints and tips that help keep them informed about updates to the ThinkVantage Technologies as well as other tools and services.

ThinkVantage Productivity Center is designed for users to customize to include information they need for their individual environments. By adding company-specific contents to the default contents, an organization can enable ThinkVantage Productivity Center to serve as a centralized help tool.

Chapter 2. Customizing ThinkVantage Productivity Center

ThinkVantage Productivity Center is a simple software application aimed at helping you use various ThinkVantage software applications to perform frequent tasks, such as backing up and restoring your system, searching for a wireless network, and enhancing system security.

With ThinkVantage Productivity Center, users can get answers to their technical support questions, and therefore rely less on calls to the help desk. This enables users to focus on important projects, and increases the efficiency.

To aid in streamlining the operation of your organization, ThinkVantage Productivity Center can be tailored to your particular environment by customizing Web links, applications, and help files.

The following information will help you customize ThinkVantage Productivity Center.

Launching ThinkVantage Productivity Center

To launch ThinkVantage Productivity Center, do one of the following:

- From the Windows desktop, click **Start** → **All Programs** (or **Programs**) → **ThinkVantage** → **Productivity Center**.
- Double-click the **ThinkVantage Productivity Center** icon on the desktop.
- Press the **ThinkVantage** button (the blue button) on the keyboard.

Customizing ThinkVantage Productivity Center

Each section of the ThinkVantage Productivity Center program can be customized. In addition, you can choose one of several color schemes for the screens, whichever best suits your working environment. The following information provides detailed procedures for customizing each section in ThinkVantage Productivity Center and the appearance of the screens.

Customizing Quick Links

The Quick Links section in ThinkVantage Productivity Center contains links to common applications so that you can perform tasks quickly. By default, Quick Links provides direct access to the following:

- Welcome
- Backup now
- Get Web support
- Find wireless networks
- Audit security settings
- Update my system
- Configure maintenance tasks
- Apply presentation scheme / Apply my normal display settings (toggle)
- Show a presentation using PowerPoint presenter view / Apply my normal display settings (toggle)
- Enable/disable hard disk protection (toggle)

- Power on/off wireless LAN radio (toggle)
- Power on/off bluetooth radio (toggle)
- Show system information
- Clean up my hard disk
- Defragment my hard disk
- Power off display
- Enter standby
- Enter hibernate
- Power on/off ThinkLight (toggle)
- Access on-system help
- Manage multimedia
- Lock my computer
- Rejuvenate my system
- Skype me
- Manage my network
- Launch Microsoft® Office
- Manage my finances
- Welcome Center
- Experience Lenovo.live.com

You can select up to seven link items to include in Quick Links. You can add items of your own, and modify the order in which the items are displayed. Some items might not be displayed due to the system difference, or because the related application or tool is not installed.

Customizing Quick Links from the predefined Quick Links contents

To customize default link items in Quick Links, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Quick Links** tab.
4. Select the link items you want from the **Quick Links contents** list.

Note: You can select up to seven items. If there are already seven items selected and you want to select another, deselect one item and then select the one you need.

5. To modify the order of the links you have selected, use the Up and Down arrow buttons on the right side of the window.
6. Click **OK**.

Adding new items to the Quick Links contents list

To customize default link items in Quick Links, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Quick Links** tab.
4. Click the **New** button. The New window opens.

5. In the **Name of Quick Link** field, type the name of the item that you want to add. The name typed in this field is displayed in the main screen of ThinkVantage Productivity Center.
6. In the **File/URL** field, type the full path of the program or the URL you want to include in the Quick Links list. You can also click **Browse** to find the program and click **open** to choose it.

Note: If there are already seven items selected and you want to select another, deselect one item and then select the one you need.

7. Click **OK**.
8. To modify the order of the items you have selected, use the Up and Down arrow buttons on the right side of the window.
9. Click **OK**.

Hiding Quick Links

To hide the entire Quick Links section from ThinkVantage Productivity Center, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Quick Links** tab.
4. Select the **Hide Quick Links** check box.
5. Click **OK** to save your selection.

Note: The IT administrator can replace the default items with his own definition using an external XML file. In this case, users cannot modify the link items defined by the IT administrator, but they can add, edit, or delete the link items defined by themselves. To modify the external XML file, refer to “External XML file for ThinkVantage Productivity Center” on page 12.

Customizing Resource Center

The Resource Center section in ThinkVantage Productivity Center contains the following categories that link to specific applications:

- Maintenance
- Wireless
- Device Configuration
- Security, Protection and Recovery
- Multimedia Management
- Communication and Networking
- Small Business Essentials
- Help and Support

The ThinkVantage Productivity Center only enables you to include or exclude some or all of these categories in Resource Center. You cannot add new items to Resource Center. Some items might not be displayed due to the system difference, or because the related application or tool is not installed. The IT administrator can replace the default items with his own definition using an external XML file. To modify the external XML file, refer to “External XML file for ThinkVantage Productivity Center” on page 12

Including or excluding categories in Resource Center

To include or exclude categories in the Resource Center section, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Resource Center** tab.
4. Select the check boxes for categories that you want to include in the Resource Center. To exclude an item from the Resource Center, clear the check box for it.
5. Click **OK** to save your selection.

Hiding the Resource Center links from ThinkVantage Productivity Center

To hide the entire Resource Center section from ThinkVantage Productivity Center, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Resource Center** tab.
4. Select the **Hide Resource Center** check box.
5. Click **OK** to save your selection.

Customizing Message Center

The Message Center section of ThinkVantage Productivity Center enables you to perform the following two tasks:

- Display Message Center messages
- Display RSS reader

The Message Center section contains messages that contribute to efficiency and productivity. Some of them contain information about how to encrypt data, how to create recovery media, or how to get options provided by Lenovo.

You can select to show or hide Message Center in ThinkVantage Productivity Center.

To hide the entire Message Center section from ThinkVantage Productivity Center, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Message Center** tab.
4. Select the **Hide Message Center** check box.
5. Click **OK** to save your selection.

To show the Message Center messages or RSS, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.

3. Click the **Message Center** tab.
4. Select the **Display Message Center message** check box or the **Display RSS** check box.
5. Click **OK** to save your selection.

To add new RSS feed, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Message Center** tab.
4. Select **Display RSS**.
5. Click **New**. The **New** dialog box opens.
6. Type the name and the URL of your favorite RSS feed in corresponding fields. Instead of typing the information yourself, you can look for the RSS feed page on the Web site and drag the URL or the RSS icon to the **RSS Feeds** list.

To import RSS feeds, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Message Center** tab.
4. Select **Display RSS**.
5. Click **Import**. The **Import** dialog box opens.
6. When Internet Explorer® 7 or later version is installed, you can import your favorite RSS feeds to ThinkVantage Productivity Center from the Internet Explore or from an OPML (Outline Processor Markup Language) file generated by RSS readers.

Customizing Appearance

To customize the appearance of ThinkVantage Productivity Center, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Appearance** tab.
4. Select the color scheme you want to use.
5. Click **Apply** to view the changes.
6. Click **OK** to save your selection.
7. If you want to create your own color scheme and appearance, click **New...** The **New** window opens.
8. In the **Name of scheme** field, type the name of the scheme you are going to create.
9. If you want to display the ThinkVantage masthead at the top of the main page of ThinkVantage Productivity Center, select the **Show ThinkVantage Masthead** check box.
10. Click **Font color** to open the Color window.

11. In the Color window, select the font color in which you want all the items in the program to be displayed, and click **OK**.
12. Click **Browse** in the **Primary background image** area, and navigate to the image you want to use as the background image for ThinkVantage Productivity Center.
13. Click **Browse** in the **Secondary background image** area, and navigate to the image you want to use as the background image for the window that is displayed after you press a function key (for example, F3) in combination with the Fn key.
14. Click **OK** to confirm your settings in the New window.
15. Click **Apply** to display your selection in the ThinkVantage Productivity Center program.
16. Click **OK** to save your selections in the Productivity Center Customization Utility window.

Customizing Button light

This section provides information about customizing Button light and Mail Checker.

Setting Button light

Button light is a function of ThinkVantage Productivity Center. This function can be used only for ThinkPad computers with the ThinkVantage button LED. ThinkVantage Productivity Center controls the LED, using the Button light setting, as a notification of a message displayed in the Message Center section. ThinkVantage Productivity Center comes with a message provider called Mail Checker. (A message provider works on any ThinkPad computers even if there is no ThinkVantage button LED.) To create your message provider, refer to Appendix C, "Creating message provider," on page 25.

To customize Button light, do the following:

1. Launch ThinkVantage Productivity Center. See "Launching ThinkVantage Productivity Center" on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Button light** tab.
4. To turn on the LED by default, select **Button light on** in the **Default Setting** field. To turn off the LED by default, select **Button light off** in the **Default Setting** field.
5. To choose the message provider, select one from the **Provide indication for** drop-down list box.
6. Select an indication type from the **Indication type** drop-down list box.

When a new message arrives, the LED starts blinking. To preview the blinking indication, click the **Preview** button.

Setting Mail Checker

ThinkVantage Productivity Center comes with a message provider called Mail Checker. When a new message arrives, the ThinkVantage button LED blinks. When a user presses the **ThinkVantage** button LED, the Message Center displays the notification message in blue. When a user clicks **View all messages**, ThinkVantage Productivity Center launches the message provider window. In the case of Mail Checker, the message provider window is an e-mail client.

To customize Mail Checker, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Button light** tab.
4. From the **Provide indication for** drop-down list box, select **Mail Checker**.
5. Click **Settings....** The Mail Checker window opens.
6. To add an e-mail account, click **Add**. The E-mail account window opens.
7. Type your e-mail address in the **E-mail address** field.
8. Type the POP3 (Post Office Protocol 3) server address provided by your e-mail Service Provider.

Note: Only the POP3 protocol is supported.

9. Type your e-mail user name.
10. Type your e-mail password. If your Service Provider requires the APOP authentication, select **Log on using Secure Password Authentication (APOP)**.
11. If it is required, type the port number provided by your Service Provider. To use the default port number, click **Use Default**. To establish a secure connection with the mail server, select **This server requires a secure connection (SSL)**.
12. Select your e-mail client program from the **E-mail reader** drop-down list box. If you select **Other...**, you can choose your favorite e-mail reader by clicking the **Browse** button.
13. Click **OK** to save all the settings.

To remove an e-mail account:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Click **Customize....** The Productivity Center Customization Utility window opens.
3. Click the **Button light** tab.
4. From the **Provide indication for** drop-down list box, select **Mail Checker**.
5. Click **Settings....** The Mail Checker window opens.
6. Select the e-mail account from the list.
7. Click the **Remove** button. A warning message displays.
8. Click **Yes** and then click **OK** to save the settings.

To modify the e-mail account setting, refer to “Customizing Mail Checker.”

Mail Checker keeps the connection to the POP3 server to check new message arrival. Select the interval time from the **Checks for new messages every X minute(s)** drop-down list box. X stands for a number from 1 to 10.

Customizing ThinkVantage Productivity Center exclusively by users with Administrator privileges

In the Productivity Center Customization Utility window, the **Allow only users with Administrator privileges to modify settings** check box is at the bottom of each of the five tab windows. When users select this check box, only the users with administrator privileges can customize the ThinkVantage Productivity Center program by modifying settings in the window.

Active Directory support for ThinkVantage Productivity Center

Active Directory provides mechanisms that enable administrators to manage computers, groups, end users, domains, security policies, and any type of user-defined objects. The mechanisms are known as Group Policy and Administrative Template files (ADM). With Group Policy and ADM files, administrators define settings that can be applied to computers or users in the domain. You can get the ADM file for ThinkVantage Productivity Center at: <http://www.lenovo.com/support/site.wss/document.do?Indocid=TVAN-ADMIN>

To add the ThinkVantage Productivity Center ADM file to the Group Policy editor, do the following:

1. Run the Active Directory server on the computer. Click **Start** → **Control Panel** → **Administrative Tools** → **Group Policy Management**. The Group Management console window opens.
2. Right-click the **Default Domain Policy** node, and select **Edit**. The Group Policy Object Editor window opens.
3. Under **Computer Configuration**, right-click **Administrative Templates**.
4. Click **Add**, and then select the TPC.ADM file.
5. Click **Close** in the **Add/Remove Templates** dialog box.
6. Under **Computer Configuration**, click **Administrative Templates**. A new tab named **Lenovo ThinkVantage Components** is present. The **Productivity Center** is on the **Lenovo ThinkVantage Components** tab.

On the **Productivity Center** tab, you can see the following items:

- Do not allow clients to customize any content
- Hide QuickLinks
- Hide ResourceCenter
- Hide MessageCenter
- Enable RSS reader on MessageCenter area
- Disable turning on ThinkVantage button LED

The detailed information about each item is described as follows:

- **Do not allow clients to customize any content**

This determines whether users can customize ThinkVantage Productivity Center. If you enable this setting, the **Customize** link is not displayed in ThinkVantage Productivity Center. All of the tabs in the Productivity Center Customization Utility window are also disabled. If you either disable or do not configure this setting, the **Customize** link is displayed, allowing users to customize the links and messages displayed by modifying the settings in the Customization Utility. However, if there is other administrative software or policies installed on the computer (such as LANDesk), the configuration set by the administrator will be followed.

- **Hide QuickLinks**

This determines whether the **Quick Links** tab is displayed in ThinkVantage Productivity Center. If you enable this setting, the **Quick Links** tab will not be displayed in ThinkVantage Productivity Center. All of the inputs on the **Quick Links** tab in the Productivity Center Customization Utility window will also be disabled. If you disable this setting, the **Quick Links** tab will be displayed in ThinkVantage Productivity Center and users can modify the links displayed in the Quick Links. This setting also disables the **Hide Quick Links** check box on the **Quick Links** tab. If you do not configure this setting, other administrative software or policies that affect the configuration of ThinkVantage Productivity Center (such as LANDesk) will determine whether the Quick Links will be displayed or not. However, if there are no such policies installed on the computer, users can choose whether Quick Links is displayed by modifying the **Quick Links** tab in the Customization Utility.

- **Hide ResourceCenter**

This determines whether the Resource Center is displayed in ThinkVantage Productivity Center. If you enable this setting, the Resource Center will not be displayed in ThinkVantage Productivity Center. All inputs on the **Resource Center** tab in the Productivity Center Customization Utility window will also be disabled. If you disable this setting, the Resource Center will be displayed in ThinkVantage Productivity Center and users can modify the contents displayed in the Resource Center. This setting also disables the **Hide Resource Center** check box on the **Resource Center** tab. If you do not configure this setting, other administrative software or policies that affect the configuration of the ThinkVantage Productivity Center (such as LANDesk) will determine whether the Resource Center will be displayed or not. However, if there are no such policies installed on the computer, users can choose whether Resource Center is displayed by modifying the **Resource Center** tab in the Customization Utility.

- **Hide MessageCenter**

This determines whether the Message Center is displayed in ThinkVantage Productivity Center. If you enable this setting, the Message Center will not be displayed in ThinkVantage Productivity Center. All of the inputs on the **Message Center** tab in the Productivity Center Customization Utility window will also be disabled. If you disable this setting, the Message Center will be displayed in ThinkVantage Productivity Center. This setting also disables the **Hide Message Center** check box on the **Resource Center** tab. If you do not configure this setting, other administrative software or policies that affect the configuration of ThinkVantage Productivity Center (such as LANDesk) will determine whether the Message Center will be displayed or not. However, if there are no such policies installed on the computer, users can choose whether Message Center is displayed by modifying the **Message Center** tab in the Customization Utility.

- **Enable the RSS reader in the MessageCenter area**

This determines whether the RSS reader is displayed in the Message Center. If you enable this setting, the RSS messages are displayed in the Message Center. Users can choose which RSS feed to display by modifying the list of RSS feeds on the **Message Center** tab in the Productivity Center Customization Utility window. This setting also disables the **Display Message Center message** radio button. If you disable this setting, the Message Center messages will be displayed in the Message Center area. The **Display RSS** radio button and the list of RSS feeds will be disabled, preventing users from modifying the RSS feeds list. If you do not configure this setting, other administrative software or policies that affect the configuration of ThinkVantage Productivity Center (such as LANDesk) will determine whether the RSS reader will be enabled or not. However, if there are no such policies installed on the computer, users can

choose whether the Message Center messages or the RSS feed is displayed by modifying the **Message Center** tab in the Customization Utility.

Note: When you register one e-mail account in the Mail Checker, a mail notice is displayed in the Message Center if there are incoming mails detected in the registered e-mail account. When the mail notice is displayed, the RSS messages will no longer be displayed.

- **Disable turning on ThinkVantage button LED**

This determines whether the blue ThinkVantage button LED is turned on or turned off. If you enable this setting, the button LED is turned off. This setting also disables the **Default Setting** and **Indication type** options on the **Button light** tab in the Productivity Center Customization Utility window. If you disable or do not configure this setting, other administrative software or policies that affect the configuration of ThinkVantage Productivity Center (such as LANDesk) will determine whether the button LED will be turned off or not. However, if there are no such policies installed on the computer, users can choose whether to turn on or turn off the button LED, or to provide indication for the Mail Checker by modifying the **Button light** tab in the Customization Utility.

Note: Some computers do not have a ThinkVantage button LED.

External XML file for ThinkVantage Productivity Center

The external XML file enables users to customize the ThinkVantage Productivity Center menu items, the masthead icon and so on. The external XML file for ThinkVantage Productivity Center is a file called TPC.XML.

For Windows 2000 or Windows XP operating systems, you can create a TPC.XML file and put it to the following directory:

```
%ALLUSERPROFILE%\Application Data\LENOVO
```

For Windows Vista operating systems, you can create a TPC.XML file and put it to the following directory:

```
%ALLUSERSPROFILE%\Lenovo
```

To deploy the external XML file using Active Directory, refer to Appendix D, "Deploying the external XML file using Active Directory," on page 29.

External XML sample files

The following is a sample of the external XML file with Quicklink:

```
<?xml version="1.0" encoding="UTF-8"?>
<ProductivityCenter version="1.00">
  <Style Masthead="C:\Document and Settings\All Users\
  Application Data\Lenovo\TPC.png">
    <Caption>Coca Cola</Caption>
    <Icon>C:\Document and Settings\All Users\Application Data\
    Lenovo\cocacola.png</Icon>
  </Style>
  <QuickLink>
    <Menu>
      <Label>Disk Defrag</Label>
      <Open>C:\WINDOWS\system32\mmc.exe C:\WINDOWS\system32\dfmg.msc</Open>
    </Menu>
    <Menu>
      <Label>Google</Label>
      <Open>http://www.google.com</Open>
    </Menu>
  </QuickLink>
</ProductivityCenter>
```

```

</Menu>
<Menu>
  <Label>My Pictures</Label>
  <Open>"%USERPROFILE%\My Documents\My Pictures"</Open>
</Menu>
<Menu>
  <Label>Lock WorkStation</Label>
  <Open>rundll32.exe user32.dll LockWorkStation</Open>
</Menu>
:
</QuickLink>
<ResourceCenter/>
</ProductivityCenter>

```

The following is a sample of the external XML file with both QuickLink and Resource Center:

```

<?xml version="1.0" encoding="UTF-8"?>
<ProductivityCenter version="1.00">
<Style Masthead="C:\Document and Settings\All Users\Application Data\
Lenovo\TPC.png">
  <Caption>Coca Cola</Caption>
  <Icon>C:\Document and Settings\All Users\Application Data\
Lenovo\cocacola.png</Icon>
</Style>
<QuickLink>
  <Menu>
    <Label>DiskDefrag</Label>
    <Open>C:\WINDOWS\system32\mmc.exe C:\WINDOWS\
system32\dfmg.msc</Open>
  </Menu>
:
</QuickLink>
<ResourceCenter>
  <Category>
    <Label>ThinkVantage Technology</Label>
    <Menu>
      <Label>Presentation Director</Label>
      <Open>C:\PROGRA~1\Lenovo\NPDIRECT\pdirect.exe /w</Open>
    </Menu>
  </Category>
  <Category>
    <Label>Maintenance</Label>
    <Menu>
      <Label>System Update</Label>
      <Open>"C:\Program Files\Lenovo\System Update\tvsu.exe"</Open>
    </Menu>
  </Category>
  <Category>
    <Label>Wireless</Label>
    <Menu>
      <Label>Select Location Profile</Label>
      <Open>"C:\Program Files\ThinkPad\ConnectUtilities\
ACFnF5.exe" /PAGEPR</Open>
    </Menu>
    <Menu>
      <Label>Manage Wireless Devices</Label>
      <Open>"C:\Program Files\ThinkPad\ConnectUtilities\
ACFnF5.exe" /PAGEWL</Open>
    </Menu>
  </Category>
:
</ResourceCenter>
</ProductivityCenter>

```

The following is a sample of the external XML file with Resource Center:

```

<?xml version="1.0" encoding="UTF-8"?>
<ProductivityCenter version="1.00">
  <Style Masthead="C:\Document and Settings\All Users\
  Application Data\Lenovo\TPC.png">
    <Caption>Coca Cola</Caption>
    <Icon>C:\Document and Settings\All Users\Application Data\
    Lenovo\cocacola.png</Icon>
  </Style>
  <QuickLink/>
  <ResourceCenter>
    <Category>
      <Label>ThinkVantage Technology</Label>
      <Menu>
        <Label>Presentation Director</Label>
        <Open>C:\PROGRA~1\Lenovo\NPDIRECT\pdirect.exe /w</Open>
      </Menu>
    </Category>
    <Category>
      <Label>Maintenance</Label>
      <Menu>
        <Label>System Update</Label>
        <Open>"C:\Program Files\Lenovo\System Update\tvsu.exe"</Open>
      </Menu>
    </Category>
    <Category>
      <Label>Wireless</Label>
      <Menu>
        <Label>Select Location Profile</Label>
        <Open>"C:\Program Files\ThinkPad\ConnectUtilities\
        ACFnF5.exe" /PAGEPR</Open>
      </Menu>
      <Menu>
        <Label>Manage Wireless Devices</Label>
        <Open>"C:\Program Files\ThinkPad\ConnectUtilities\
        ACFnF5.exe" /PAGEWL</Open>
      </Menu>
    </Category>
  </ResourceCenter>
</ProductivityCenter>

```

Customization

The following information is for users to customize the specific parts of the XML file:

1. Masthead customization

- To use a customer unique caption and icon, add the following:

```

<Style>
  <Caption>Caption String</Caption>
  <Icon>Image Icon Path (44x44 pixel, <.PNG, transparent color is
  supported as alpha-channel.</Icon>
</Style>

```

- To use a customer unique image, add the following:

```

<Style Masthead="Image Path (<.PNG, <.JPG, <.BMP etc)">
</Style>

```

Note: The masthead height is 53 pixel and the width is 257 pixel or above. The right side might not be displayed depending on operating system language.

2. QuickLink customization

- To disable QuickLink, add the following:

```

<Quicklink/>

```

- To show the customer unique QuickLink menu, add the following:

```

<QuickLink>
  <Menu>
    <Label>Label of this item</Label>
    <Open>Command line to execute a program</Open>
  </Menu>
  <Menu>
    <Label>Label of this item</Label>
    <Open>Command line to execute a program</Open>
  </Menu>
  :
</QuickLink>

```

Note: The number limit of <Menu> data is 7 if Resource Center is displayed. The number limit of <Menu> data is 15 if Resource Center is not displayed.

The following command line formats are supported:

- Executable file:
 - "(long file path)"
 - "%ENVIRONMENT VARIABLE%\ (long file path)"
 - filename
 - (short file path)
 - "(long file path)" parameters
 - "%ENVIRONMENT VARIABLE%\ (long file path)" parameters
 - filename parameters
 - (short file path) parameters
- Document file:
 - "(long file path)" "%ENVIRONMENT VARIABLE%\ (long file path)"
 - (short file path)
 - URL

3. Resource Center customization

- To disable the ResourceCenter menu, add the following:
<ResourceCenter/>
- To show the customer unique ResourceCenter menu, add the following:

```

<ResourceCenter>
  <Category>
    <Label>1st Level Label of this item</Label>
    <Menu>
      <Label>2nd Level Label of this item</Label>
      <Open>Command line to execute a program</Open>
    </Menu>
    <Menu>
      <Label>2nd Level Label of this item</Label>
      <Open>Command line to execute a program</Open>
    </Menu>
    :
  </Category>
  <Category>
    <Label>1st Level Label of this item</Label>
    <Menu>
      <Label>2nd Level Label of this item</Label>
      <Open>Command line to execute a program</Open>
    </Menu>
  </Category>
  :
</ResourceCenter>

```

Note: The number limit of <Category> data is 7 if Quick Link is displayed. The number limit of <Category> data is 15 if Quick Link is not displayed.

For the command line format, refer to “QuickLink” on page 15. The same formats are supported.

Chapter 3. Customizing Help Center

Help Center is launched from the Resource Center section of ThinkVantage Productivity Center. It provides information, services, and tools that are both local to the system (so that information is available regardless of whether the system is connected to the Internet) and remote on Lenovo Web sites.

Help Center categorizes the information into different tasks, so that users can quickly access information or functions that they want to view or run.

Help Center provides the interface for the user guides, system tools, services, and Lenovo Web sites on the Internet. The Help Center interface links to Access Help, which helps users find the information easily. In the **Keyword Search** field of the Help Center window, users can input a keyword for Access Help index to search for the information, which helps users solve the problems they might encounter.

Using the Personalize button to customize Help Center

To customize the appearance of the Help Center window by using the **Personalize** button, do the following:

1. Launch ThinkVantage Productivity Center. See “Launching ThinkVantage Productivity Center” on page 3.
2. Put the cursor on **Help and support** in the Rescue Center section, and then select **Learn about my computer**. The Help Center window opens.
3. Click **Personalize** in the masthead on top of the Help Center window. The Personalize window opens.
4. The **General** and the **Font and backgrounds** tabs in the Personalize window provide the following settings:
 - On the **General** tab, you can change the following settings:
 - From the **Choose resolution settings** pull-down menu, you can adjust the default size of Help Center to the size of your display screen. Select **Automatic** from the pull-down menu to let Help Center automatically choose its window size depending on the system settings. Select **Low resolution (1024 X 768 or less)** or **High resolution (1280 x 1024 or higher)** to resize the Help Center window.
 - To confirm that your private information is sent over the Web, select the **Always ask before sending private information over the Web** check box.
 - To resume default settings, click the **Revert to defaults** button.
 - On the **Font and backgrounds** tab, you can change the following settings:
 - Click the **Font color** button to edit the color displayed in the Help Center window. The color window opens. By customizing the color, you can make information presented by the Help Center interface easier to read.
 - Select a background color or an image from the list on the **Select the backgrounds for Help Center** drop-down menu.
5. Click **Apply** to view your change on the Help Center window.
6. Click **OK** to save your change.

Chapter 4. Delivering messages of your own

Message Center delivers system-specific notifications about the software installed on the computer. These messages might be preloaded on the computer when shipped from the factory, or they can be added by the IT administrator. A wide range of messages will be displayed depending on the recipient system.

Any program can deliver a message through Message Center. Each message is presented in a bubble display.

Note: When ThinkVantage Productivity Center is installed, it shows a new message instead of a bubble display.

To open Message Center, users can double-click the **Message Center** icon in the system tray. If there are any messages, they will be displayed in the Message Center window. Otherwise, the Message Center window will be blank.

When users click the **Message Center** icon in the system tray, a menu displays for users to launch Help Center, view Message Center, hide the bubble messages, or exit Message Center.

When a new message arrives, Message Center displays a bubble message with the title of the message. The color of the **Message Center** icon in the system tray changes to show that a new message is waiting.

Note: If ThinkVantage Productivity Center is installed, the bubble displays from Message Center are replaced with entire messages from ThinkVantage Productivity Center.

On the Windows XP operating system, Message Center opens when users click the bubble. On the Windows 2000 operating system, the bubble message is minimized when users click the bubble.

For a sample of the XML message file and a chart of what an XML message file in Message Center might contain, refer to Appendix A, "Example of an XML message file," on page 21 and Appendix B, "The elements in an XML message file," on page 23.

Appendix A. Example of an XML message file

The following is an example of an XML message file:

```
<xml version="1.0" encoding="utf-8" standalone="yes"?>
<message id="MKCD.xml">
  <version>1.0</version> <title>Create your own set of recovery CDs</title>
  <body>Did you know that you can create recovery media?
  This media will help you restore your computer even if you
  cannot enter the Windows(R) environment. You will need a
  CD-RW drive and several blank CD-R or CD-RW discs or a
  USB hard disk drive or an internal hard drive to create
  your set of recovery media. If you decide not to create
  your recovery media right now, you can create it later
  by clicking Start, All Programs, ThinkVantage, and Create
  Recovery Media.</body>
  <priority>1</priority>
  <category>002
  <language>en</language>
  <machines>all</machines>
  <launch1>
    <text>Learn more...</text>
    <app>hh.exe</app>
    <param1>recover.chm::/STMEDIA2.HTM</param1>
  </launch1>
</message>
```


Appendix B. The elements in an XML message file

The following table presents a list of the elements that each Message Center message XML file might contain.

Every message must be enclosed in the element and have a unique ID, which is the same as the file name.

Table 1. Elements in an XML message file

Element	Required	Contents	Example
Version	No	Version of the Message Center.	1.0
Title	Yes	Title of the message	Manage all your connections simply!
Body	Yes	Body text of the message.	Configure multiple network connections and easily switch between them.
category	No	Category of the message.	001=New products 002=Upgrades and accessories 003=Downloads and Drivers 005=Alerts
language	No	Language the message is in.	en
Locale	No	Region the message covers.	US
source	No	Program that generates the file.	Access Connections™
Machines	Yes	The four-digit machine type number(s) that this message applies to. If there are multiple machine types, insert a comma after every one except the last. If the message applies to every machine, you can enter "all."	2678.2884
Launch1	No		
Launch1 App	Yes, if this is a launch1.	The path to the executable file that will be launched.	C:\windows\notepad.exe
Launch1 Text	Yes, if this is a launch1.	Text to display to the user at launch, such as the application name.	Notepad
Launch1 Param1	No	Parameter to pass to the application.	C:\filetoopen.txt
Launch2	No		
Launch2 App	Yes, if this is a launch2.	Path to the executable file that will be launched.	C:\windows\notepad.exe
Launch2 Text	Yes, if this is a launch2.	Text to display to the user at launch, such as the application name.	Notepad
Launch2 Param1	No	Parameter to pass to the application.	C:\filetoopen.txt
Launch3	No		

Table 1. Elements in an XML message file (continued)

Element	Required	Contents	Example
Launch3 App	Yes, if this is a launch3.	The path to the executable file that will be launched.	C:\windows\notepad.exe
Launch3 Text	Yes, if this is a launch3.	Text to display to the user at launch, such as the application name.	Notepad
Launch3 Param1	No	Parameter to pass to the application.	C:\filetoopen.txt

Delivering a message

To have a message displayed in Message Center, the message must be placed in the C:\Documents and Settings\all users\application data\lenovo\messages\ directory in Windows 2000 and Windows XP. In Windows Vista®, the message must be placed in the C:\Users\All Users\Lenovo\Messages directory.

The expected behavior

If an XML message file is placed in the appropriate directory while Message Center is running, Message Center may take up to 30 seconds to respond. A typical response is that a bubble containing the title of the message pops up. However, if a bubble has popped up in the past hour, the only response will be a change of the Message Center icon in the system tray and the appearance of fly-over text informing you that a new message arrives. The purpose of this is to avoid bombarding you with pop-ups.

Appendix C. Creating message provider

Message provider enables the ThinkVantage button LED to blink and displays a notification message in the Message Center section. Users can create their own message provider using the specified XML and HTML files.

The following is the format of the XML file:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<message>
  <guid>{XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX}</guid>
  <title>Your application name.
  This is displayed as the TPC message center title.</title>
  <category>xxx</category>
  <launch>
    <app>"Program path to launch the application for the message"</app>
  </launch>
  <signaleventname>SampleEvent</signaleventname>
</message>
```

Table 2. The elements of the XML file

Element	Description
<guid>	The <guid> value is a GUID string of your application.
<title>	The <title> value is your application name, which is displayed in the Message Center section.
<category>	The <category> value is a number. The number 000 and 001 are reserved. The number is used to sort the messages when your application generates multiple messages.
<launch>	The <launch> value is the program path to launch the application for the message.
<signaleventname>	The <signaleventname> value is the event name defined by the message provider. ThinkVantage Productivity Center creates the event defined in the XML file and issues the event when users perform the task through ThinkVantage Productivity Center. Note: The event can be created only on computers with the ThinkVantage button LED on the keyboard. If the message provider does not have the event, leave the <signaleventname> value blank. For example, if the message provider is the e-mail checker, the event will be issued when the user opens the e-mail reader by clicking View all messages .

The following is the format of the HTML file:

```
<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
```

```

    <link href="CSSPath" rel="stylesheet"/>
  </head>
  <body onContextmenu="return false">The message you want to display.</body>
</html>

```

The HTML file can have any format with specifying CSS file as follows:

```
<link href="CSSPath" rel="stylesheet"/>
```

The "CSSPath" registry value is available at:

```
HKLM\SOFTWARE\Lenovo\ProdCenter\Client\LPMSG\CSSPath
```

Note: The HTML file name must be the same as the XML file name. The file extension must be .htm.

Put the XML file and the HTML file to the following directories:

- For a system-wide message:

XML:

```
%ALLUSERSPROFILE%\Application Data\Lenovo\LPMSG
```

HTML:

```
%ALLUSERSPROFILE%\Application Data\Lenovo\LPMSG\HTML
```

- For a user-dependent message:

XML:

```
%APPDATA%\Lenovo\LPMSG
```

HTML:

```
%APPDATA%\Lenovo\LPMSG\HTML
```

To use the message provider function, the message provider should be registered to the ThinkVantage Productivity Center registry and selected on the **Button light** tab in the Productivity Center Customization Utility window.

Create the following registry key values:

```

HKLM\SOFTWARE\Lenovo\ProdCenter\ButtonLight\{your GUID}
REG_SZ ProgramName="@ + "short path of your EXE file with any parameters"
REG_SZ SettingProgramPath="The file path of your EXE file to configure
                        TVT blinking"
REG_SZ SettingProgramParameters="The parameter for SettingProgramPath"

```

The ProgramName="@ + "short path of your EXE file with any parameters" is set to ProgramName="your program name" after the user logs on to the system.

The following contains an XML sample and an HTML sample generated by the mail checker message provider.

- MailChk.XML

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<message>
  <guid>{A8F50D4D-4C9D-4d54-AC00-73079C60A9F1}</guid>
  <title>Mail Checker</title>
  <category>001</category>
  <launch>
    <app>"C:\Program Files\Outlook Express\msimn.exe"</app>
  </launch>
</message>

```

- MailChk.HTM

```
<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  <link href="C:\Documents and Settings\All Users\Application Data\
    Lenovo\LPMsgs\HTML\PrdCtr.css" rel="stylesheet"/>
</head>
<body onContextmenu="return false">You have 126 new messages.</body>
</html>
```

Appendix D. Deploying the external XML file using Active Directory

The following are the instructions for deploying the external XML file using Active Directory on the server.

1. Create a share folder and put the XMLCPY.BAT file and the customized XML (TPC.XML) file in it.

- For Windows 2000 or Windows XP operating systems, the contents of the XMLCPY.BAT file are the following:

```
copy \\server name\alias name\directory name\TPC.XML  
"%ALLUSERPROFILE%\Application Data\LENOVO\TPC.XML"
```

- For Windows Vista operating systems, the contents of the XMLCPY.BAT file are the following:

```
copy \\server name\alias name\directory name\TPC.XML  
"%ALLUSERSPROFILE%\Lenovo\TPC.XML"
```

Note: To create the TPC.XML file, refer to the sample in “External XML sample files” on page 12.

2. Create a group policy, click **Computer Configuration** → **Windows Settings** → **Scripts (Startup/Shutdown)**. The **Scripts (Startup/Shutdown)** panel opens.
3. Select **Startup**, and then click **Properties**. The Startup Properties window opens.
4. In the **Scripts** area, add the batch file XMLCPY.BAT.
5. Configure the Organization Unit (OU) to apply the group policy to the client computers.

Appendix E. Getting help and technical assistance

If you need help, service, or technical assistance or just want more information about Lenovo products, you will find a wide variety of sources available from Lenovo to assist you. This appendix contains information about where to go for additional information about Lenovo and Lenovo products, what to do if you experience a problem, and whom to call for service, if it is necessary.

Before you call

Before you call, make sure that you have taken these steps to try to solve the problem yourself:

- Check all cables to make sure that they are connected.
- Check the power switches to make sure that the computer is turned on.
- Apply the suggestions for troubleshooting in the computer documentation.
- Use the diagnostic tools that come with your computer. Information about the diagnostic tools is in the Hardware Maintenance Manual and Service and Troubleshooting Guide for your computer.
- Go to the Support Web site at <http://www.lenovo.com> to check for technical information, hints, tips, and new device drivers, or to submit a request for information.

You can solve many problems without outside assistance by following the troubleshooting procedures provided in the online help or the publications that came with your computer and software. The information that came with your computer also describes the diagnostic tests that you can perform. Most computer systems, operating systems, and programs come with information that contains troubleshooting procedures and explanations of error messages and error codes. If you suspect a software problem, see the information for the operating system or program.

Using the documentation

Information about your Lenovo system and any preinstalled software is provided in the documentation that comes with your system. That documentation includes printed books, online books, readme files, and help files. Instructions for using the diagnostic programs are included in the troubleshooting information in your system documentation. The troubleshooting information or the diagnostic programs might tell you that you need additional or updated device drivers or other software. Lenovo maintains pages on the World Wide Web where you can get the latest technical information and download device drivers and updates. For access to these pages, go to <http://www.lenovo.com> and follow the instructions there.

Getting help and information from the World Wide Web

The Lenovo Web site has up-to-date information about Lenovo products, services, and support at <http://www.lenovo.com>.

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