



ThinkPad Tablet

Management White Paper

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Introduction

The Lenovo ThinkPad Tablet was engineered to be the portable, powerful, entertaining tablet device users want, while also providing configuration, management and security features that corporate IT departments demand.

The ThinkPad Tablet's 1GHz dual-core NVIDIA Tegra-2 processor, 10.1-inch display with pen input support and Android 3.1 operating system, and variety of preloaded productivity and entertainment software, make it a tablet users want. The ability to configure and manage the tablet using tools that IT administrators are familiar with makes the ThinkPad Tablet an easy choice for corporate use.

Configurable for *your* environment

Want to make it easy for users to be productive with their tablets right away? The ThinkPad Tablet allows IT administrators to configure the corporate services users need by specifying configuration settings in XML files. When these XML files are delivered to users and imported by the ThinkPad Tablet, the settings are automatically applied. Configuring the ThinkPad Tablet with XML files helps make it easier for users to connect to their corporate networks and accounts and quickly be productive.

XML configuration files allow the IT administrator to configure the following:

- Microsoft Exchange e-mail server
- VPN (native Android VPNs and Cisco AnyConnect VPN)
- Wireless network settings
- Digital certificates
- Active Directory domain server

The IT administrator can create a single, common XML configuration file for multiple users. The XML file might contain, for example, the configuration settings for the secure corporate wireless network, the CA certificate for the wireless network, and the address of the corporate Exchange server. This XML file can be made available to the user by sending it to the user's personal e-mail account, which the user can access using an unsecured "visitor" network

connection, or the user's home internet connection. The IT administrator can also put the XML configuration file on a Web server, making it accessible to the user with intranet credentials.

Once the user receives the XML configuration file on his ThinkPad Tablet, he simply taps the file and the Lenovo Configuration Profile Handler is launched to import and apply the configuration settings on the device. The user may be prompted to enter his personal logon credentials if they were not included in the configuration file, but all of the common server information and settings will be pre-defined for the user.

Keep it secure

Users love the convenience tablets provide, but -- let's face it -- tablets also introduce risks to corporate data that makes IT departments nervous. The ThinkPad Tablet helps give IT peace of mind by making it easy to enforce security policies on the device.

In addition to configuring network and server settings, the IT administrator can define settings in the XML configuration file to:

- Disable the SD card slot – block a common cause of corporate data leakage
- Disable the USB ports – keep the user from copying data to USB keys or transferring files to a PC
- Disable the Wi-Fi and Bluetooth radios
- Disable the cameras – prevent users from taking photos of sensitive information
- Disable the microphone
- Disable the USB debugging option
- Disable data roaming – ensure that users do not run up big bills when traveling
- Disable unknown sources – ensure that applications can only be installed from approved app shops
- Require the internal storage and/or SD card be encrypted – ensure that data stored on the device, and data that can be taken off the device, remains protected
- Require Active Directory credentials to unlock the device – keep the device secure by requiring users to use their managed corporate credentials to unlock it
- Configure Android password requirements – ensure that users have a password set, and that it meets complexity requirements

The XML configuration file can be encrypted with a password to help protect its contents. It can also be digitally signed to prevent its contents from being altered. Encryption and signing are available via a standalone Windows utility.

Ready to use, right out of the box

Want to have your ThinkPad Tablets ready to use in your corporate environment right out of the box? The Lenovo Imaging Technology Center (ITC) can help! The ITC can customize the ThinkPad Tablet image, preloading it with corporate wallpapers, applications, wireless network settings, security policies and more.

With a custom-built configuration, the tablet is configured and ready to use in your corporate environment as soon as it's delivered.

Management with Microsoft Exchange ActiveSync & SCCM 2012

The ThinkPad Tablet includes support for Microsoft Exchange ActiveSync. IT administrators can manage their ThinkPad Tablets the same way they manage other mobile devices – using the tools provided by the Microsoft Exchange Server.

The ThinkPad Tablet supports these Exchange ActiveSync controls:

- Remote wipe
- Password policies
- Device encryption
- Camera
- Wi-Fi
- Bluetooth
- Sync from PC
- Removable storage
- SD card encryption



Once the user configures the e-mail client on the ThinkPad Tablet to connect to the corporate Exchange server, ActiveSync policy settings pushed to the device from the Exchange server are automatically applied, ensuring that the device maintains the security settings the IT department requires.

With Microsoft's announcement of support for Android devices in System Center Configuration Manager 2012, the same device policies that can be deployed to the ThinkPad Tablet by ActiveSync can also be deployed by SCCM. SCCM 2012 will link to your Exchange server and provide a "single pane of glass" for managing all of your devices, including your ThinkPad laptops and ThinkPad Tablets.



Console-based management with the ThinkManagement Console

The ThinkPad Tablet can be centrally managed by IT administrators using the Lenovo ThinkManagement Console with the Lenovo Mobility Manager plug-in. The Lenovo Mobility Manager works with your Exchange server for discovery, inventory, and wiping of the ThinkPad Tablet from the ThinkManagement Console. This capability is available for free for ThinkPad Tablet devices.

Need more management capability? Upgrade the Lenovo Mobility Manager to add support for securely pushing device configurations and security policies to ThinkPad Tablet devices.



The upgraded Lenovo Mobility Manager allows the client application on the ThinkPad Tablet to establish a secure connection to the configuration server. Configuration and policy settings are received and applied by the client application running on the ThinkPad Tablet.

Establishing the secure connection to the server requires the user log in to the configuration server using a PIN, which the user gets by logging in to a PIN server from a PC or from the tablet's Web browser. The user authenticates to the PIN server using corporate credentials, and supplies that PIN when logging on to the Lenovo Mobility Manager application preloaded on the ThinkPad Tablet. After the application connects to the configuration server, the IT-provided configuration information is securely pushed to the device and the ThinkPad Tablet is automatically configured.

Summary

The Lenovo ThinkPad Tablet provides several options for configuring and securing the tablet. These options allow you to leverage tools already available in your environment, or to upgrade to tools that provide secure distribution of configuration and management settings.

Feature	XML file	Exchange ActiveSync	ThinkManagement Console with Lenovo Mobility Manager
Discovery/inventory		✓	✓
Remote wipe		✓	✓
Configure e-mail server	✓		✓*
Configure VPN	✓		✓*
Configure wireless networks	✓		✓*
Install digital certificates	✓		✓*

Configure Active Directory domain server	✓		✓*
Disable SD card slot	✓	✓	✓*
Disable USB ports	✓	✓	✓*
Disable WiFi radio	✓	✓	✓*
Disable Bluetooth radio	✓	✓	✓*
Disable cameras	✓	✓	✓*
Disable microphone	✓	✓	✓*
Require internal storage encryption	✓	✓	✓*
Require SD card encryption	✓	✓	✓*
Require Active Directory credentials to unlock screen	✓		✓*
Configure Android password requirements	✓	✓	✓*
Disable Android settings for data roaming, USB Debugging and Unknown Sources	✓		✓*

* - Available with upgrade

Need more information?

Please see the ThinkPad Tablet Deployment Guide on the Lenovo support Web site for more information.



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