



# July 2009 Firmware and Software Updates

## Release Notes

Document Version 2.0

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## Table of Contents

<b>TABLE OF CONTENTS</b> .....	<b>3</b>
<b>INTRODUCTION</b> .....	<b>4</b>
<b>COMPONENTS</b> .....	<b>4</b>
<b>THINX 1.1.1 BUILD 171507 - SUPPORTED HARDWARE MODELS</b> .....	<b>4</b>
<b>THINX 1.1.1 BUILD 171507 - NEW FEATURES AND FIXES</b> .....	<b>5</b>
<b>PLUG-IN UPDATES FOR THINX FIRMWARE</b> .....	<b>6</b>
<b>NEW PLUG-INS FOR THINX FIRMWARE</b> .....	<b>8</b>
<b>2009 RESOURCE KIT V.3</b> .....	<b>9</b>
<b>MULTILINGUAL SUPPORT FOR THINX FIRMWARE</b> .....	<b>10</b>
<b>XENDESKTOP AUTO-START ON THINX FIRMWARE</b> .....	<b>11</b>
<b>KNOWN ISSUES</b> .....	<b>12</b>

## Introduction

This document describes all firmware and software updates released in July 2009 for Xcalibur Global Management Software and for Chip PC thin client devices.

## Components

The July 2009 Firmware and Software Updates include the following components:

- Chip PC Linux based client device firmware ThinX version 1.1.1, build 171507.
- New Plug-ins:
  - Advanced Customized System Screens, version 5.2008
  - PuTTY Terminal, version 4.2000
  - IBM 3270, version 3.0307
  - SIP Phone, version 1.0000
  - X connection, version 1.0000
  - VDM Client, version 2.1003
- Updated Plug-ins:
  - Citrix ICA 10.09, version 10.0902
  - Chip PC Domain Authentication Provider, version 1.0002
- 2009 Resource Kit v.3, version 1.0002

## ThinX 1.1.1 build 171507 - Supported Hardware Models

Chip PC client device firmware ThinX version 1.1.1 build 171507 is supported on the following hardware models:

- All models based on the 2xxx platform

## ThinX 1.1.1 build 171507 - New Features and Fixes

Table 1 lists and describes new features and fixes introduced in the Chip PC client device firmware ThinX 1.1.1 build 171507, released in July 2009.

**Table 1: Firmware ThinX 1.1.1 build 171507**

#	Feature / Fix	Description
1.	NEW – Xcalibur Global SNMP Discovery	Device now supports the Xcalibur Global SNMP Discovery feature.
2.	NEW – Xcalibur Global remote command “Run Client Program”	Device now supports the Xcalibur Global remote command “Run Client Program”.
3.	NEW – Xcalibur Global remote Sleep (power save) and Wake	Device now supports the Xcalibur Global remote command “Deep Sleep” power saving mode. The device can resume normal operation using the “Wake on LAN” command.
4.	NEW – Added License column in plug-in list	New License column has been added to the Plugins section of the LBT configuration. This column indicates the licensing status of the plug-in.
5.	NEW – “Deployment share” in Xcalibur client icon	Added a “Deployment share” field to the Xcalibur Global system tray client status icon. The field displays the share path and its status.
6.	NEW – WMV support	Added WMV file support for the built in MPlayer.
7.	NEW – NetBIOS name script	Added support for Xcalibur Global NetBIOS name scripts.
8.	FIX – High resolution color	Fixed minor color issues that occurred when the display was set to 1600x1200 or 1680x1050
9.	FIX – Manual IP	Fixed issues related to setting a manual IP address
10.	FIX – Optimized speed auto-negotiation	Optimized the device network speed auto-negotiation process. Improves performance when connected to switches using static speed settings.

## Plug-in Updates for ThinX Firmware

Table 2 lists and describes new features and fixes introduced in the updated plug-ins released in July 2009.

**Table 2: Updated Plug-ins**

#	Feature / Fix	Description
<b>Citrix ICA 10.09</b>		
1.	NEW – PNAgent auto-start	Added the option to auto-start PNAgent application on device startup.  Also applicable to XenDesktop <sup>1</sup> connections. A Chip PC Unique feature!
2.	NEW – Pass-Through Authentication Rules	Added support for Xcalibur Global pass-through authentication rules.
3.	NEW – USB drive mapping via Xcalibur Global	Added a new Xcalibur Global policy branch: ICA Global Advanced Settings.  Description: Map USB drives on a ThinX device into an ICA session.
4.	NEW – Default session window setting via Xcalibur Global	Added a new Xcalibur Global policy branch: ICA Global Advanced Settings.  Description: Determine the default settings of the ICA session window.
5.	NEW – Default keyboard setting via Xcalibur Global	Added a new Xcalibur Global policy branch: ICA Global Advanced Settings.  Description: Determine the default settings of the ICA session keyboard.
6.	FIX – Server Location is set via Xcalibur Global to include multiple servers.	Now supports specifying multiple servers in ICA Server Location

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<sup>1</sup> See configuration details in the section XenDesktop Auto-Start on ThinX Firmware

**Table 2: Updated Plug-ins - continued**

#	Feature / Fix	Description
<b>Chip PC Domain Authentication Provider</b>		
7.	NEW – Legal Notice	Added an option to include a Legal Notice in the Domain Authentication process. The Legal Notice is configured via Xcalibur Global policy and will appear on the device after pressing CTRL+ALT+DEL and before entering the credentials.
<b>VDM Client</b>		
1.	NEW – Support ThinX	Added support for ThinX based devices

## New Plug-ins for ThinX Firmware

Table 3 lists and describes new plug-ins for the ThinX firmware that were released in July 2009.

**Table 3: New Plug-ins**

#	Name	Description
1.	PuTTY Terminal	The PuTTY plug-in is a terminal emulator application which can act as a client for the SSH, Telnet, rlogin, and raw TCP computing protocols.
2.	IBM 3270	This plug-in enables access to IBM mainframe servers using IBM 3270 terminal emulation.
3.	Advanced Customized System Screens	<p>This Plug-in enables the customization of the following ThinX graphics:</p> <ol style="list-style-type: none"> <li>1. Splash Screen image</li> <li>2. Screen Saver image</li> <li>3. Logo image</li> <li>4. Wall Paper image</li> </ol> <p>The plug-in allows an organization to reflect their corporate identity via the use of corporate logos and graphics on the thin client device.</p>
4.	SIP Phone	This plug-in provides the ThinX device with support for VoIP communications. The plug-in includes the Linphone application that uses the standard SIP (rfc3261) protocol.
5.	X connection	This plug-in provides support for the creation and management of X11 remote connections via Xcalibur Global.



## 2009 Resource Kit v.3

The 2009 Resource Kit v.3 includes additional Xcalibur Global policy options that are primarily applicable to the ThinX OS firmware (one exception).

Table 4 lists and describes new policy options added by the 2009 Resource Kit v.3.

**Table 4: 2009 Resource Kit v.3**

#	Path / New Option
	<b>Device Configuration \ Windows Components \ Shell \ Start menu and taskbar</b>
1.	Hide Upgrade Item from Setting menu
2.	Show Network status
3.	Show Process status
4.	Hide application item from start menu
5.	Hide Reboot item from start menu
6.	Hide Shutdown item from start menu
	<b>Device Configuration \ Peripheral Settings \ Input/Output Device Setting</b>
1.	Use DDC info if available
2.	Enable Video
3.	Disable Advanced Session Language Behavior
4.	Display Properties > Screen Rotation <sup>2</sup>
	<b>Device Configuration \ Network and Communications \ Network Behavior \ Network Authentication</b>
1.	Mount Point
2.	NFS Parameters

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<sup>2</sup> Applicable to CE based firmware, version 7.0.2 and above.

## Multilingual Support for ThinX Firmware

It is possible to configure any ThinX device to work in a multilingual environment. Due to inherent properties of the Linux platform, when working in a multilingual environment a risk of possible Keyboard-Language mismatch exists in both ICA and RDP sessions. To prevent such mismatch, Chip PC has developed a special feature called **Advanced Session Language Behavior**.

The following procedure must be followed to correctly work with this new feature:

1. Configure Device Settings
  - 1.1. Click **Start > Settings** to open the **LBT Configuration** dialog.
  - 1.2. In the **Device Settings** branch select the **Layout Properties**.
  - 1.3. In the Layout Properties dialog perform the following:
    - 1.3.1. Add the desired language keyboards layouts.
    - 1.3.2. Select the default layout (for example German).
    - 1.3.3. Select **Enable indicator on Task Bar**.
  - 1.4. Click **OK** to exit the LBT Configuration, click **No** so the device does not restart.
2. Configure RDP Settings
  - 2.1. No additional settings are required, reboot the ThinX device.
3. Configure ICA Settings
  - 3.1. In **My Citrix** click **Tools > Settings** open the Settings dialog.
  - 3.2. In the **Keyboard Layout** field select the same value that was selected for the device settings (in this example German).
  - 3.3. Click OK to exit the Settings dialog
4. Reboot the ThinX device.

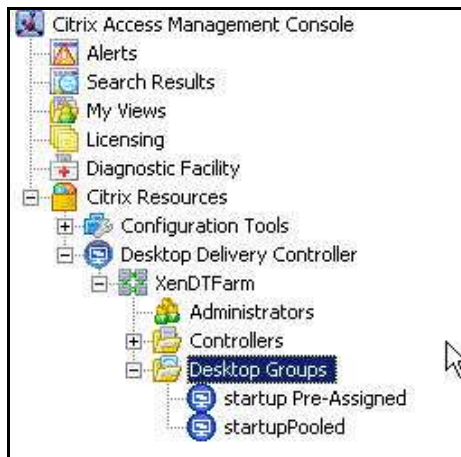
## XenDesktop Auto-Start on ThinX Firmware

The **Advanced Session Language Behavior** has the following effects on sessions in a multilingual environment:

- The session language can be changed only from within the session.
- The device language settings can be changed only when the session window is not the active window on the device (applicable only when the session window is not running in Full Screen mode).

To configure a device so that a XenDesktop session will automatically start as soon as the device boots, the following must be set:

1. The XenDesktop server must be configured to Place published resource shortcuts folder on desktop.
2. The connection to the XenDesktop server must be automatic (configured locally or via Xcalibur Global).
3. The name of the XenDesktop Desktop Group must include the prefix “startup”.
  - The prefix is not case sensitive.
  - The prefix can be separate or attached to the rest of the word.



## Known Issues

- Pass-through authentication for VDM Client requires clicking the **Login** button to complete.
- Pass-through authentication for VDM Client in multi-domain environments requires the use of an Xcalibur Global policy to specify the desired domain name.  
(Device Configuration \ Installable Software Modules \ Connections \ VDM Client \ VDM Client Settings \ VDM Credentials)