



March 2007 New Firmware and Software Updates

Release Notes

Document Version 1.0



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Introduction

This document describes all firmware and software updates released in March 2007 for Xcalibur Global Management Software and for Chip PC thin client devices.

Components

The March 2007 Firmware and Software Updates include the following components:

- Chip PC client device firmware, version 6.5.5, build RL0.151803
- 2007 Resource Kit v.2
- Plug-in Updates
- New Plug-ins
- Service Pack 4 for Xcalibur Global 1.1 Rev. 2



Firmware version 6.5.5 - New Features and Fixes

Table 1 lists and describes new features and fixes in the Chip PC client device firmware 6.5.5 released in March 2007.

Table 1 - Firmware version 6.5.5

#	Feature / Fix	Description
1.	NEW – Smartcard security	Added support for the smartcard plug-in.
2.	NEW – Wireless encryption and authentication	Added support for new methods of wireless encryption and authentication. See details in following table.
3.	NEW - High resolution support	Improved support for existing high resolutions. Additional support for new high resolutions. See details in following table.
4.	NEW - 2007 Resource Kit v.2	Added support for new features included in the 2007 Resource Kit v.2 (details in the following section).
5.	Updated – Daylight-saving time start dates.	Daylight-saving time start dates were change from April 1 st to March 11 th for the following time zones: <ul style="list-style-type: none"> ■ (GMT-09:00) Alaska ■ (GMT-08:00) Pacific Time (US & Canada); Tijuana ■ (GMT-07:00) Mountain Time (US & Canada) ■ (GMT-06:00) Central Time (US & Canada) ■ (GMT-05:00) Eastern Time (US & Canada) ■ (GMT-04:00) Atlantic Time (Canada)
6.	FIX - Local installation of certificate and private key files on local client device	Enabled support for local installation of certificate files (*.cer) and private key files (*.pvk) on the local client device. Supports Root certificates, User Certificates and Private Keys (required for wireless authentication).



Supported Methods of Wireless Encryption and Authentication

Table 2 details the various wireless encryption and authentication methods supported by the Chip PC client device firmware 6.5.5 released in March 2007.

Table 2 - Wireless Encryption and Authentication Methods

#	Method	Local Support	Xcalibur Global Support
1.	None (no encryption or authentication).	Yes	Yes
2.	WEP HEX 64bit	Yes	Yes
3.	WEP HEX 128bit	Yes	Yes
4.	WEP ASCII 64bit	Yes	Yes
5.	WEP ASCII 128bit	Yes	Yes
6.	WPA-PSK TKIP HEX (up to 64 characters key length)	Yes	Yes
7.	WPA-PSK TKIP ASCII (up to 63 characters key length)	Yes	Yes
8.	WPA TKIP TLS – with validation server	Yes	Yes
9.	WPA TKIP TLS - without validation server.	Yes	No



Display Settings Supported by Firmware 6.5.5

Table 3 lists the display settings that are supported by the Chip PC client device firmware 6.5.5 released in March 2007.

Table 3 - Display Settings Supported by Firmware 6.5.5

Display Resolution	Socket	Color	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Pixel Clock (MHz)
640x480	VGA or DVI	8-bit 16-bit 24-bit	60	31.5	25.2
			70	36.8	29.4
			72	37.85	30.3
			75	39.4	31.5
			85	44.75	35.8
800x480	VGA or DVI	8-bit 16-bit 24-bit	60	37.55	39.65
800x600	VGA or DVI	8-bit 16-bit 24-bit	60	37.7	39.8
			70	44	46.5
			72	45.25	47.8
			75	47.15	49.8
			85	53.4	56.4
1024x768	VGA or DVI	8-bit 16-bit 24-bit	60	48.4	65.1
			70	56.5	75.95
			72	58.1	78.1
			75	60.5	81.35
			85	68.6	92.2
1280x768	VGA or DVI	8-bit 16-bit 24-bit	60	47.8	79.5



Table 3 - Display Settings Supported by Firmware 6.5.5 – continued

Display Resolution	Socket	Color	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Pixel Clock (MHz)
1280x1024	VGA or DVI	8-bit	60	63.7	108
		16-bit	70	74.4	126.2
1360x768	VGA or DVI	8-bit	60	47.7	84.7
		16-bit			
1440x900	VGA or DVI	8-bit	60	55.9	106.45
1680x1050	VGA or DVI	8-bit	50	54.35	122.6
1600x1200	VGA or DVI	8-bit	50	62.5	135
1680x1050 Reduced Blank	DVI	8-bit	50	54	99.36
		16-bit	60	64.75	119.15
1600x1200 Reduced Blank	DVI	8-bit	60	75	137.45
1920x1200 Reduced Blank	DVI	8-bit	50	61.7	128.35

Notes

- Some of the display modes may not be available when using multiple displays.
- When using the VGA socket with an LCD screen some minor distortions may occur in non-standard resolutions.
- Supported display modes are dependent on thin client hardware; some of the above display modes may not be available in certain thin client models.
- Effective display settings are dependent on display hardware and cable quality; some of the above display modes may not be supported by certain screens or cables.
- The display settings in Table 3 were tested successfully on the following displays:
 - Dell 2407WFPb
 - ViewSonic VP2030b
 - Samsung SyncMaster 214T



Display Settings – Recommended Configuration Procedure

When configuring display settings, the following course of action is recommended:

1. Set the desired resolution and refresh frequency in accordance with the limitations of your display.
2. If the settings do not function, change to Reduced Blank if using DVI or reduce the refresh frequency if using VGA.
3. If the change to Reduced Blank does not help, try reducing the refresh frequency.



2007 Resource Kit - Features

Table 4 presents an updated feature and description list of the 2007 Resource Kit.

Note The 2007 Resource Kit v.2 includes all features introduced in previous 2007 Resource Kit versions.

Table 4 - 2007 Resource Kit Features

#	Feature	Description
2007 Resource Kit v.2 - March 2007		
1.	Remote installation of certificate and private key files via Xcalibur Global	Added an option to push certificate files (*.cer) and private key files (*.pvk) to a client device via Xcalibur Global. Supports Root certificates, User Certificates and Private Keys (required for wireless authentication).
2.	Connection Shortcuts in Start Menu	Added option to send connection shortcuts to the Start Menu .
3.	PNA Folder in Start Menu	Added support for the PNA Folder in the Start Menu
4.	Host Table	Using an Xcalibur Global policy, host names can be manually assigned to IP addresses for name resolution purposes (Host Table).
5.	LPR3 Port	Added support for a third LPR printer port.
6.	Device renewal options – local support	Device Renewal options can be configured on the local device (previously only via Xcalibur Global).
7.	MTU adjusting	Using an Xcalibur Global policy, the MTU, on both the wireless and the LAN network interfaces, can be adjusted.
8.	Security options for external storage devices.	Added options controlling transfer of files between external storage and sessions.
9.	Upgrade with local settings restore	Added option to restore local settings and connections following an upgrade.



Table 4 - 2007 Resource Kit Features - continued

#	Feature	Description
10.	Lock button added to Task Manager	Added a Lock button to the thin client Task Manager window.
11.	XMLHTTP + XMLSAX in Internet Explorer	Added support for XMLHTTP + XMLSAX in Internet Explorer (is not supported in device models: EX5000, EX5070)
12.	Default Gateway – remote configuration	When the device network settings are set manually, the Default Gateway can be configured via an Xcalibur Global policy.
13.	Persistent Connection	Support for the Persistent Connection plug-in feature (RDP, ICA, Pericom, IE). This option forces the connection to re-activate when it is terminated.
2007 Resource Kit v.1 - January 2007		
14.	Support for DNS/WINS setting via Xcalibur Policy - LAN	When the device network (LAN) settings are set manually, the DNS and WINS settings can be modified via an Xcalibur Global policy.
15.	Support for DNS/WINS setting via Xcalibur Policy - Wireless	When the device network (Wireless) settings are set manually, the DNS and WINS settings can be modified via an Xcalibur Global policy.
16.	In the device Desktop Settings, added an option to map key combination Ctrl-Alt-DecDel into session.	When using the DEL key on the keypad, control Ctrl-Alt-Del is applied on the remote desktop.
17.	In the device Desktop Settings, added an option to map key combination Alt-Shift-Tab into session.	When this option is selected, it is possible to use the key combination Alt-Shift-Tab in order to toggle between applications running on the remote desktop.



Table 4 - 2007 Resource Kit Features - continued

#	Feature	Description
18.	Support for renewal options in IE plug-in.	Support for the new scheduled refresh and reboot options in the latest IE plug-in.
19.	Support for device reboot option in Xcalibur Global policy.	Using an Xcalibur Global policy, the device can be scheduled to reboot periodically.
20.	Support for custom icons option in Xcalibur Global policy.	Using an Xcalibur Global policy, customized icons can be added to the connection icon pool.



Updated Plug-ins - New Features and Fixes

Table 5 lists and describes new features and fixes for updated plug-ins released in March 2007.

Table 5 - Updated Plug-ins

#	Plug-in Updates – New Features and Fixes	Description
1.	Internet Explorer: Renewal options	Added an option to “Clear Cache” when renewing an IE connection. Added an option to renew every 15 minutes.
2.	Internet Explorer: Persistent connection	Added an option for Persistent connection . This option forces the connection to re-activate when it is terminated.
3.	Internet Explorer: URL length	When creating an IE connection via Xcalibur Global, the maximum URL length has been increased to 256 characters.
4.	Internet Explorer: Wireless deployment	Support for wireless deployment.
5.	RDP: Persistent connection	Added an option for Persistent connection . This option forces the connection to re-activate when it is terminated.
6.	RDP: Mapping external storage into session – bug fixed	Fixed issue with external storage mapping in RDP session.
7.	RDP: Wireless deployment	Support for wireless deployment.
8.	ICA: Persistent connection	Added an option for Persistent connection . This option forces the connection to re-activate when it is terminated.
9.	ICA: Wireless deployment	Support for wireless deployment.



Table 5 - Updated Plug-ins - continued

#	Plug-in Updates – New Features and Fixes	Description
10.	Pericom: Persistent connection	Added an option for Persistent connection . This option forces the connection to re-activate when it is terminated.
11.	Pericom: Device Type for COM port	Added an option to select the type of the device that is connected to the COM port which is mapped to the session.
12.	Pericom: Wireless deployment	Support for wireless deployment.
13.	UltraVNC: New resolutions	Added support for the new resolution introduced in image 6.5.5.
14.	UltraVNC: Wireless deployment	Support for wireless deployment.
15.	Customized System Screens: Wireless deployment	Support for wireless deployment
16.	LPD Printer: Wireless deployment	Support for wireless deployment
17.	Remote Connection: Wireless deployment	Support for wireless deployment
18.	USB Synchronizer Wireless deployment	Support for wireless deployment

Important After starting a **Persistent Connection**, the device must be restarted to stop the connection re-activation cycle. If an **Autostart Shortcut** is created for the Persistent Connection, the shortcut must first be deleted before the device is restarted.



New Plug-ins

Table 6 lists and describes the new plug-ins released in March 2007.

Table 6 - New Plug-ins

#	Plug-in	Description
1.	Smartcard Logon plug-in	Enables the use of smartcards for securing the thin client and preventing unauthorized access to the device.

Service Pack 4 - New Features and Fixes

Table 7 lists and describes new features and fixes in Service Pack 4 for Xcalibur Global 1.1 rev.2, released in March 2007.

Table 7 - Service Pack 4

#	Feature	Description
1.	Support for new firmware features	Support for new features available in the Chip PC client device firmware 6.5.5
2.	Support for new Resource Kit features	Support for new features available in the 2007 Resource Kit v.2
3.	Support for updated and new plug-ins	Support for new plug-ins and for new features added to existing plug-ins.
4.	Improved USB device support	Added support via Xcalibur Global for the option: Cancel Redundant 'Print Screen' commands for USB-PS/2 adapter