



Xcalibur Global XPClient

Technical Brief

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Introduction

This document introduces the new XPClient for Xcalibur Global, released March 2009.

Applicable Software Versions

This document is applicable to the following software version:

- Chip PC Xcalibur Global Management Software, version 1.2, build 379.
- Chip PC XPClient for Xcalibur Global, build 0116 (henceforth XPClient).

Overview

The XPClient enables the management of Windows XP based devices, when using Chip PC Xcalibur Global Management Software.

The XPClient can be used to manage standard versions of Windows XP workstations as well as XP Embedded based devices.

A partial list of the management features include:

- Connection management (ICA, RDP, Internet Explorer) via Xcalibur Global policies.
- Device and User Domain Authentication.
- Desktop remote control via VNC.
- Remote reboot.
- Virtual Desktop Infrastructure support via the Xcalibur Global VDI Broker.
- Enable shadowing of:
 - XenDesktop sessions
 - VMware View sessions
 - Local desktops
- Remote Registry Modification.

XPClient Features

The Xcalibur Global XPClient introduces the ability to manage XP based devices via Xcalibur Global.

From the central management aspect, the XPClient provides support for most of the existing Xcalibur Global management tools. This includes, among others:

- Bulk device management.
- Managing device groups based on the organization's physical and logical structure.
- Management based on the Active Directory structure (In addition to the grouping mentioned above).
- Advanced bulk device configuration via Xcalibur Global policies.
- Central monitoring of:
 - Devices
 - Users
 - Desktops
 - Sessions
- Asset Management information such as Hardware and OS details

In addition to the central management tools described above, the XPClient offers the following device specific management features.

1 Connection Management

The XPClient enables Xcalibur Global to create and manage the following connections on an XP based device:

- RDP connections, including all standard settings such as:
 - Display setting
 - Local Devices settings.
 - Experience settings.
 - Logon Settings.
 - Connection shortcut on desktop and in start menu.
 - Etc.
- ICA connections, including all standard settings such as:
 - Citrix desktop or Published Application.
 - Encryption.
 - Logon settings
 - Display setting
 - Connection shortcut on desktop and in start menu.
 - Etc.
- Internet Explorer connections, including all standard settings such as:
 - Connection name
 - Start Page.
 - Place Connection shortcut on desktop and in start menu.
 - Etc.

All connection can be created and managed via Xcalibur Global policies. The policies can be applied per device or per Active Directory Organization Unit thus affecting multiple devices. Policies can also be applied per user or per user group.

2 Domain Authentication Management

The XPClient enables Xcalibur Global to implement its Domain Authentication management capabilities on XP based devices. These include:

- Device domain authentication:
 - Controls the device registration in Xcalibur Global.
 - Auto-assigns devices to Active Directory Organization Units.
- User domain authentication:
 - Pass-through authentication.
 - User level policies.

3 Desktop Remote Control

Using the existing Xcalibur Global management interface, a selected device can be remotely controlled using VNC.

4 Remote Commands

Using the existing Xcalibur Global management interface, the following commands can be applied to one or more selected devices:

- Reboot
- Logoff
- Lock
- Reset to Factory Defaults

How to Use the XPClient

1 XPClient Installation and Configuration

1.1 Installation

1. Verify that the following prerequisites are met:
Microsoft .Net 3.5 must be installed on the workstation.
2. From the XPClient directory run **XPClientInstall.exe**.
3. Enter the installation directory or leave default.
4. Click **Install**.
5. When completed, an **XPClient Installation** dialog will inform of a successful installation.
6. Click **OK** to start the XPClient.

1.2 Configuration

The XPClient settings determine the parameters for communication between the XPClient and the Xcalibur Global server. By default the XPClient settings do not require any modifications for successful operation. If however customized settings are required the following setting tabs are most commonly the most relevant:

- The **Server List** tab – allows the user to manually set the address and communication parameters of the Xcalibur Global server.
- The **Locator** tab – allows the user to disable some of the methods by which the XPClient will attempt to locate an Xcalibur Global server. The user can also adjust the order in which each method is attempted.
- For more information about the methods of connecting an XPClient to an Xcalibur Global server,
- **refer to Appendix A.**

Chapter 1 Connecting Devices

The following chapter provides a list of different methods for connecting thin client devices to Xcalibur Global.

- Although each of the listed methods can be used, this chapter will focus on the Network in real time via the IP Scope view

Connection Methods

Use one of the following methods to connect devices to Xcalibur Global::

- **DNS A Record**
In your DNS server, create a new Address (A) record named **XCglobal11** that points to your Xcalibur Global Front End server IP address.
- **Local Device Settings**
On Windows CE thin clients, click **Start > Settings > Xcalibur**
 - In the **General** tab, select **Enable Connection to Xcalibur Server Farm**.
 - In the **Server List** tab, click **New**, type your server's IP address and then click **OK**. Click **OK** to close the window and save your settings.On ThinX thin clients, click **Start > Settings > Device > Xcalibur Settings > General**.
 - In the **General** tab, select **Enable Connection to Xcalibur Server Farm**.
 - In the **Server List** tab, click **Add**, type your server's IP address and then click **OK**. Click **OK** to close the window and save your settings.
- **Network Scan** – follow the procedure described below¹.
- For additional connection methods (such as DHCP), please refer to the Xcalibur Global Administrator's Guide.

7. Managment

¹ Applicable only to Windows CE thin clients

The XPClient settings are mostly identical to those of any standard Xcalibur Global client.

The main difference applies to the configuration of the DHCP server when it is used by the XPClient as a 'Locator' to find the Xcalibur Global server, for details refer to Appendix A.

1

2 XPClient Settings

In the XPClient settings, in the DHCP tab, the **User Class ID** (not the **Vendor Class ID** that appears in the standard Xcalibur Global Client) must be specified. The default value for the User Class ID is **ChipPCxp**; this value must be identical to the User Class ID used for the Xcalibur Global settings in the DHCP server.

3 DHCP Server Configuration

3.1 Create an XPClient User Class

Perform the following steps to create the User

8. In the DHCP MMC, right-click on the DHCP server and select **Define User Classes** from the menu.
9. In the **DHCP User Classes** dialog, click **Add** to open the **New Class** dialog.
10. In the New Class dialog, type the following values:
 - 10.1. In the field **Display name**, type **ChipPCxp**.
 - 10.2. In the field **Description**, type **User class for Chip PC Xcalibur Global XP client**.
 - 10.3. In the field below the header **ASCII**, type **ChipPCxp**.
11. Click **OK** to save the new user class and then click **Close** to close the Define User Classes dialog.

3.2 Create XPCClient Option Types

1. In the DHCP MMC, right-click on the DHCP server and select **Set Predefined Options** from the menu.
2. In the **Predefined Options and Values** dialog, form the **Option Class** drop down list, select **DHCP Standard Options**.
3. Click **Add** to create a new **Option Type**. Create the following new option types using the parameters provided in Table 1.

Table 1: Parameters for Creating XPCClient DHCP Option Types

Option Name	Data Type	Code	Description
Xcalibur Server List	IP Address, select Array	163	Leave blank
SNMP Community Name	String, do not select Array	164	Leave blank
Plain Port Number	String, do not select Array	166	Leave blank
SSL Port Number	String, do not select Array	167	Leave blank

4. After creating the new option types, type the following default values for each option type:
 - Xcalibur Server List: not default value.
 - SNMP Community Name: **xcalibur4**
 - Plain Port Number: **917**
 - SSL Port Number: **918**

3.3 Configure Server/Scope Options

1. In the DHCP MMC, right-click on the **Server Options** or on **Scope Options** and select **Configure Options** from the menu.
2. In the Server Options / Scope Options dialog, select the **Advanced** tab.
3. For the **Vendor class**, select **DHCP Standard Options** from the drop down list.
4. For the **User class**, select **ChipPCxp** from the drop down list.
5. In the **Available Options** section, select the following check boxes:
 - 163 Xcalibur Server List
 - 164 SNMP Community Name
 - 166 Plain Port Number
 - 167 SSL Port Number
6. For each selected check box, type the following in the **Data entry** section:
 - For the Xcalibur Server List, enter one or more IP addresses of Xcalibur Global Front End Servers.
 - For the SNMP Community Name, leave the default setting.
 - For the Plain Port Number, leave the default setting.
 - For the SSL Port Number, leave the default setting.
 - Click **OK** to save the settings and complete the DHCP server configuration procedure.