



Xcalibur Global

Version 1.2

Installation Guide

Document Version 3.0



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Chapter 1 Preface

This chapter provides general information about the document.

Intended Audience

This document is targeted at the following professionals:

- Xtreme Certified Administrators
- Thin-client experts
- IT managers with adequate knowledge of Microsoft Active Directory architecture

Caution Only professionals with MCSA 2003 or equivalent knowledge should attempt to implement the instructions in this document.

Important It is recommended that this entire document be read prior to installing Xcalibur Global.

Scope

This document applies to the following product:

- Xcalibur Global version 1.2

Objectives

This document enables the reader to perform all necessary procedures required for successfully installing **Xcalibur Global** and any supplemental software packages.

Reference Materials

Xcalibur Global Quick Configuration Guide (Ref# DG023U).

How to Setup NFS for Xcalibur Global (Ref# DL121H).

Document Features

Conventions

Bold formatting is used to indicate a product name, required selection or screen text entries.

Notes

Caution Text marked **Caution** contains warnings about possible loss of data.

Important Text marked **Important** contains information that is essential to completing a task.

Note Text marked **Note** contains supplemental information.



Chapter Overview

The document is divided into the following chapters:

- Chapter 1 Preface provides general information about the document.
- Chapter 2 Software Overview provides a brief introduction to **Xcalibur Global**.
- Chapter 3 System Requirements describes the operating system and software requirements for the various **Xcalibur Global** components.
- Chapter 4 Installation Check List presents a check list of all installation and pre-installation tasks. This check list is intended as a road map to guide the user through the entire installation process.
- Chapter 5 Pre-Installation Tasks describes all pre-installation tasks that must be performed prior to installing **Xcalibur Global**.
- Chapter 6 Installation Prerequisites describes all prerequisites that must be adhered to prior to installing **Xcalibur Global**.
- Chapter 7 Software Installation describes the process for installing **Xcalibur Global**.



Chapter 2 **Software Overview**

This chapter provides a brief introduction to **Xcalibur Global**.

Introduction

Chip PC **Xcalibur Global** is a policy-based enterprise management software designed for thin-client management in large-scale environments.

Xcalibur Global is based on Microsoft Windows 2003/2008 Active Directory infrastructure, which facilitates fast and efficient administration for all connected resources.

Software Components

Xcalibur Global is based on the installation components listed below.

System Components

The system components constitute the core of **Xcalibur Global** and include the following:

- Database Server
- Front End Server
- Management Console

Software Packages

Various software packages exist that can be loaded into the **Xcalibur Global** database.

- Firmware packages add thin client firmware files to the **Xcalibur Global** database that include:
 - Firmware upgrades
 - Recovery files
 - System Restore files
- Plug-In packages add special server and client plug-in files to the **Xcalibur Global** database that include, amongst others:
 - ICA Client
 - RDP Client
 - Internet Explorer
 - Domain Authentication Client
 - Domain Authentication Server

Policy Templates

A set of policy template files are preconfigured to help the user easily create Xcalibur Policies for the performance of common management tasks.



License Components

Various license components are required for **Xcalibur Global** operation:

- Basic functionality of **Xcalibur Global** requires the following licenses:
 - **Xcalibur Global** Server License
 - **Xcalibur Global** Client License
- The following plug-in packages also require special licenses:
 - Domain Authentication Server License
 - Domain Authentication Client License
 - Customized System Screen Client License
 - Pericom Client License
 - VNC Client License
 - Other



Chapter 3 System Requirements

This chapter describes the operating system and software requirements for the various components of **Xcalibur Global**.

Note The system components can all be installed on a single machine or each component can be installed on a separate machine.

Note The following specifications refer to an English operating system and database versions.

Database Server Component Requirements

Operating Systems

The database server component can be installed on any of the following operating systems:

- Microsoft Windows XP Professional with Service Pack 3
- Microsoft Windows 7 Professional
- Microsoft Windows Server 2003 (Standard or Enterprise Edition) with Service Pack 2
- Microsoft Windows Server 2003 R2 (Standard or Enterprise Edition)
- Microsoft Windows Server 2008 (Standard or Enterprise Edition)
- Microsoft Windows Server 2008 R2 (Standard or Enterprise Edition)

Database Software

The database server component requires one of the following database applications:

- Microsoft SQL Server 2005 Express, Standard or Enterprise edition
- Microsoft SQL Server 2008 Express, Standard or Enterprise edition

Storage Requirements

- Installation - 500Mb of free disk space is required for the initial installation.
- Database growth – database growth depends on the number of clients and the level of administration. It should be assumed that each thin client requires approximately 150Kbytes of database space per-day.

Important Due to their scalability and performance limitations, the Express editions of the database software should not be used in environments where the number of thin clients is expected to grow beyond 250 devices.
--



Front End Server Component Requirements

Operating Systems

The Front End server component can be installed on any of the following operating systems:

- Microsoft Windows XP Professional with Service Pack 3
- Microsoft Windows 7 Professional
- Microsoft Windows Server 2003 (Standard or Enterprise Edition) with Service Pack 2
- Microsoft Windows Server 2003 R2 (Standard or Enterprise Edition)
- Microsoft Windows Server 2008 (Standard or Enterprise Edition)
- Microsoft Windows Server 2008 R2 (Standard or Enterprise Edition)

Storage Requirements

- Installation - 500Mb of free disk space is required for the initial installation

Management Console Component Requirements

Operating Systems

The Management Console component can be installed on any of the following operating systems:

- Microsoft Windows XP Professional with Service Pack 3
- Microsoft Windows 7 Professional
- Microsoft Windows Server 2003 (Standard or Enterprise Edition) with Service Pack 2
- Microsoft Windows Server 2003 R2 (Standard or Enterprise Edition)
- Microsoft Windows Server 2008 (Standard or Enterprise Edition)
- Microsoft Windows Server 2008 R2 (Standard or Enterprise Edition)

Storage Requirements

- Installation - 50Mb of free disk space is required for the initial installation.

Note The system components can all be installed on a single machine or each component can be installed on separate machines.



Chapter 4 Installation Check List

This chapter provides a check list of all installation and pre-installation tasks. The check list is intended as a road map to guide the user through the entire installation process.

Pre-Installation Tasks

- 1) Create the **Xcalibur Global** OU (optional).
- 2) Create and configure the **Xcalibur Global** administration group.
- 3) Create and configure the **Xcalibur Global** Administrative user account.
- 4) Create and configure the **Xcalibur Global** Default User account.
- 5) Create and configure the **Xcalibur Global** Front End Server service account.
- 6) Install and configure NFS (optional).

Installation Prerequisites

- 1) Verify system requirements are met.
- 2) Verify domain membership for the servers.
- 3) Verify that the installing user has Windows local administrative rights.
- 4) Verify that the installing user has SQL Administration/DB Ownership rights.
- 5) Verify that the installing user has Active Directory permissions.
- 6) Disable UAC (Windows 2008/7 only).

Software Installation

- 1) Install the database component.
 - a) Install software packages (optional).
 - b) Install policy templates (optional).
- 2) Install the Front End Server component.
- 3) Install the Management Console component.



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Chapter 5 Pre-Installation Tasks

This chapter describes all pre-installation tasks that must be performed prior to installing **Xcalibur Global**.

Introduction

The following pre-installation tasks must be performed prior to installing **Xcalibur Global**:

- 1) Create the **Xcalibur Global** OU (optional).
- 2) Create and configure the Xcalibur Default user account.
- 3) Create and configure the **Xcalibur Global** administration group.
 - a) Stage 1 - Create group.
 - b) Stage 2 - Assign permissions to group.
- 4) Create and configure the **Xcalibur Global** Administrative user account.
 - a) Stage 1 - Create the user.
 - b) Stage 2 - Assign permissions to the user.
- 5) Create and configure the Xcalibur Front End Server service account.
 - a) Stage 1- Create the account.
 - b) Stage 2 - Assign permissions to the account.
 - i) Add the account to domain groups.
 - ii) Add the account to local groups.
- 6) Install and configure NFS on Front End Servers.

Installing NFS is optional and is only required if Linux based clients will use NFS for XG package deployment. The procedure is detailed in external document: *How to Setup NFS for Xcalibur Global (Ref# DL121H)*.

<p>Important The procedures described in the following sections allow the user to name objects according to his/her criteria. However, for improved support and documentation purposes, it is strongly recommended that the names used in this document are adopted and applied in the installed environment.</p>
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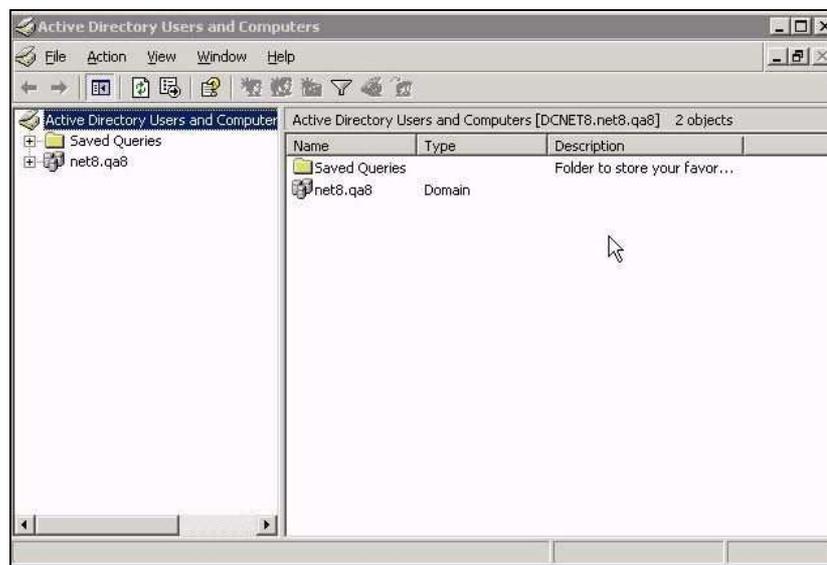
Creating an Xcalibur Global OU

The **Xcalibur Global** OU is used as a container for all **Xcalibur Global** related objects.

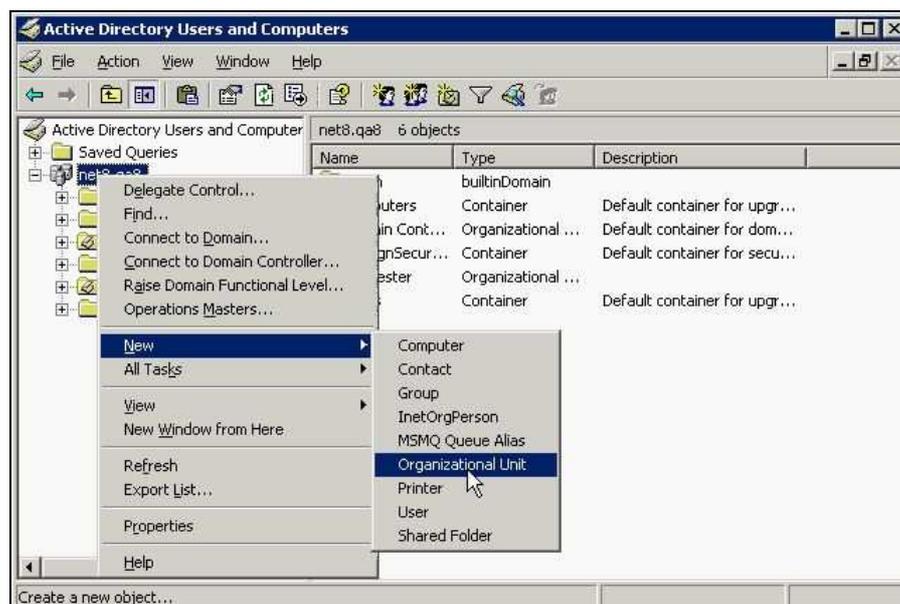
Although the creation of an **Xcalibur Global** OU is optional, it is recommended to create a dedicated **Xcalibur Global** OU. Otherwise, a non-dedicated OU can be used for this purpose.

Proceed as follows to create the dedicated **Xcalibur Global** OU:

- 1) From the **Start** button locate the **Administrative Tools** and select **Active Directory Users and Computers** to display the **Active Directory Users and Computers** window, as illustrated.

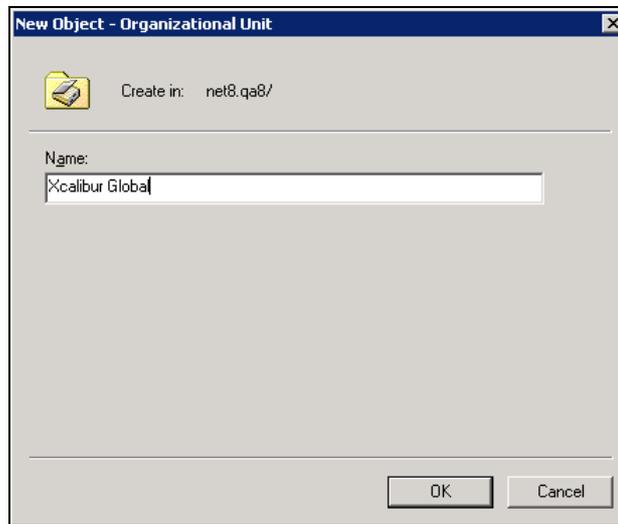


- 2) In the **Active Directory Users and Computers** window, select the pertinent domain in the left pane then right click to display the right-click menu, as illustrated.





- 3) From the right click menu select **New, Organizational Unit** to display the **New Object – Organizational Unit** window, as illustrated.



- 4) In the **Name** field enter **Xcalibur Global** for the name of the new OU.
- 5) Click **OK** to continue. The new OU **Xcalibur Global** is now added to the selected domain.

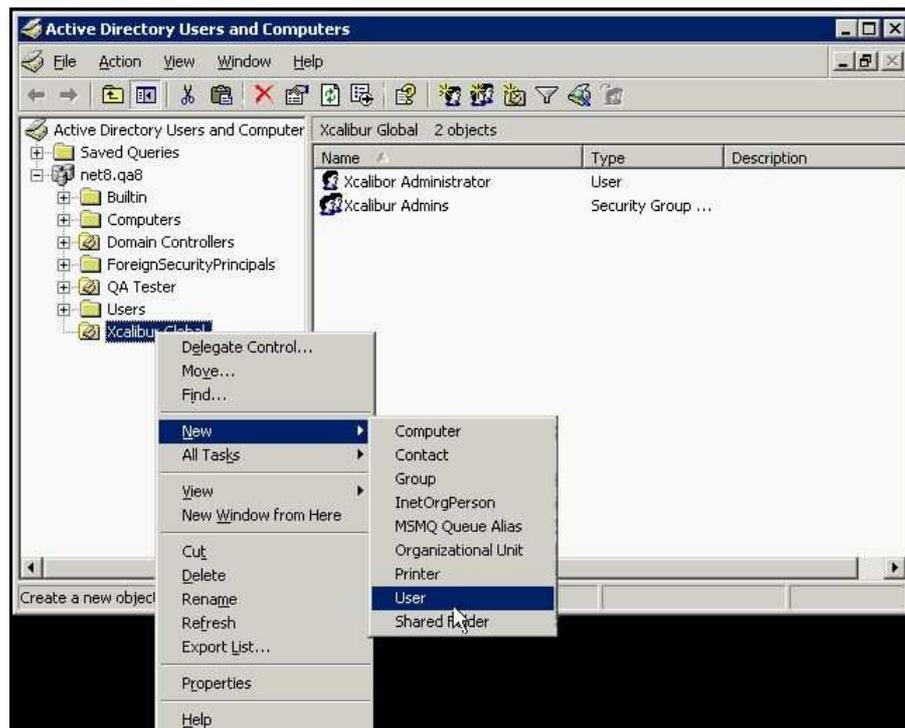


Creating an Xcalibur Global Default User Account

The **Xcalibur Global** default user account is created for the purpose of supplying default credentials during the **Xcalibur Global** user authentication process.

Proceed as follows to create a default user account:

- 1) In the **Active Directory Users and Computers** window, select and expand the pertinent domain in the left pane.



- 2) Select and highlight the previously-created OU **Xcalibur Global**, then from the right-click menu select **New, User** to display the **New Object – User** window, as illustrated





- 3) In the **New Object - User** window complete the following fields:
 - First Name** defaultuser
 - User logon name** defaultuser
- 4) Click **Next** to save your changes and proceed to the next window.



- 5) In the **New Object – User** window, as illustrated, complete the following fields:
 - Password** Enter a valid password
 - Confirm password** Enter the password again for confirmation
 Check the option **Password never expires**.
 All other options must remain unchecked.
- 6) Click **Next** to save your changes and proceed to the next window.



- 7) The **New Object - User** window, as illustrated, lists the object that will be created.



If changes are required click **Back** to locate the specific window, enter the required changes then click the **Next** button to return to this window.

- 8) Click **Finish** to create the listed object and return to the **Active Directory Users and Computers** window.
- 9) Proceed to the next section, **Creating and Configuring an Xcalibur Global Administration Group**.

Creating and Configuring an Xcalibur Global Administration Group

An **Xcalibur Global** administration group is created for the purpose of assigning permissions to **Xcalibur Global** administrative users. Any user configured as a member of this group will have permissions to perform thin-client management tasks, such as:

- Add/remove thin clients to the system
- Create, link and unlink Xcalibur policies

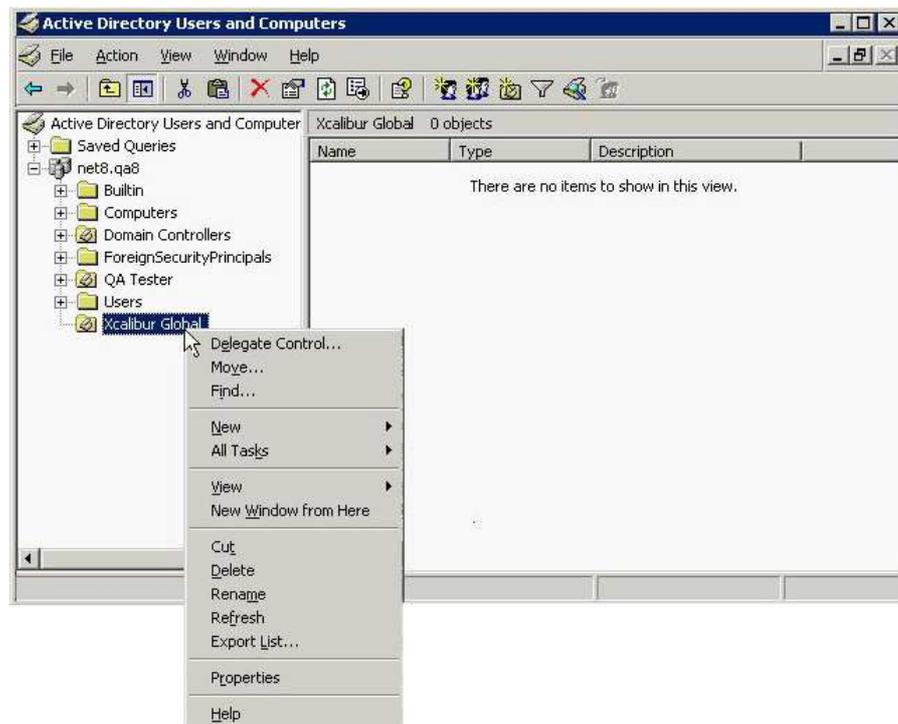
This group is created in two stages. The first stage involves creating the actual group and the second stage involves assigning permissions to the group.



Stage 1 – Creating the Xcalibur Global Admin Group

Proceed as follows to create the **Xcalibur Global** administration group within the **Xcalibur Global** OU:

- 1) In the **Active Directory Users and Computers** window, select and expand the pertinent domain in the left pane. Right click on the OU **Xcalibur Global** to display the right-click menu, as illustrated.

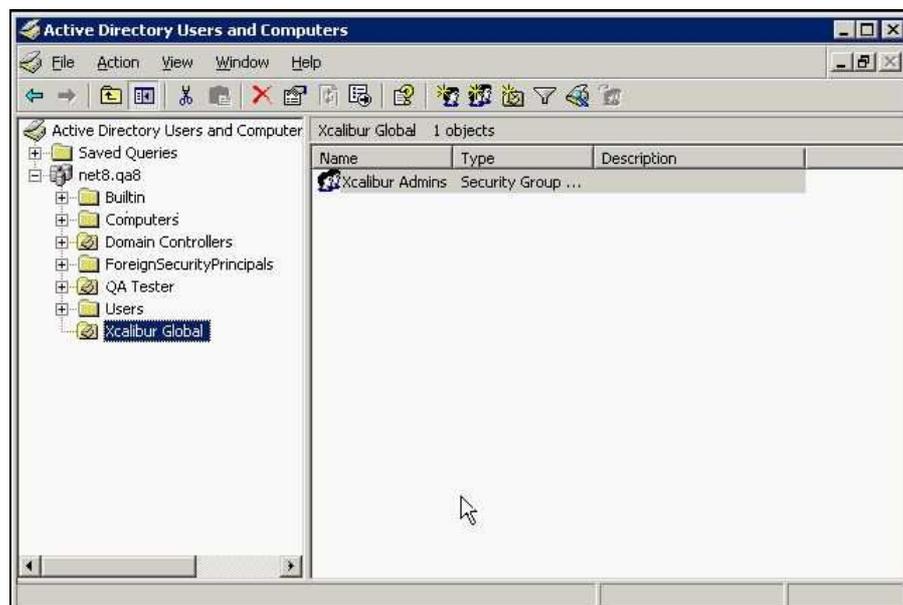


- 2) From the right-click menu select **New, Group** to display the **New Object – Group** window, as illustrated.





- 3) In the **New Object - Group** window complete the following fields:
- | | |
|--------------------------------------|---|
| Group name | Enter Xcalibur Admins . |
| Group name (pre-Windows 2000) | Completed automatically according to the text entered in the Group name field. |
| Group scope | Select Global . |
| Group type | Select Security . |
- 4) Click **OK** to save your changes. A new group with the name **Xcalibur Admins** is added to the **Xcalibur Global** OU and displayed in the right pane, as illustrated.



- 5) Proceed to the next stage, **Assigning Permissions to the Xcalibur Global Admins Group**.



Stage 2 – Assigning Permissions to the Xcalibur Global Admins Group

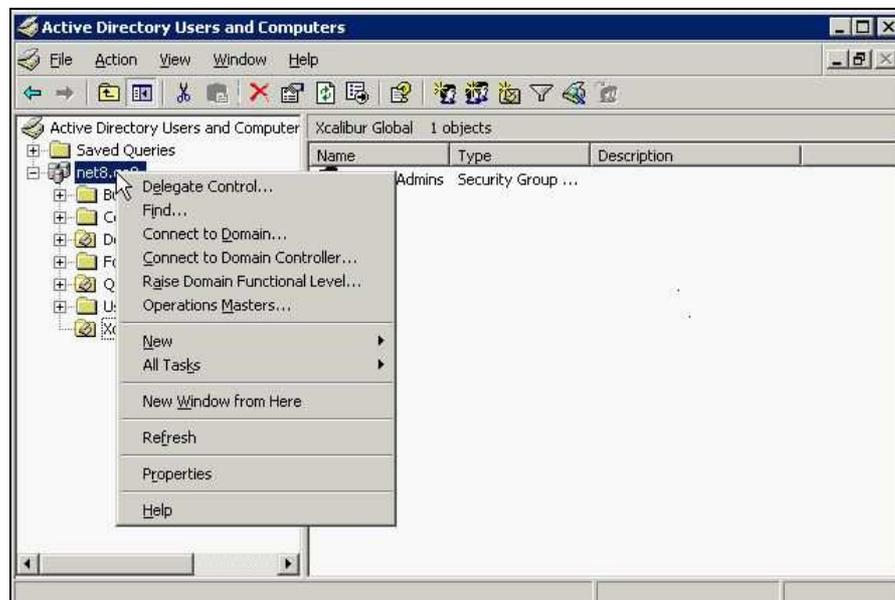
The following permissions must be assigned to the **Xcalibur Admins** group via the **Delegation of Control Wizard**:

- Generate Resultant Set of Policy (Planning)
- Generate Resultant Set of Policy (Logging)
- Read gPLink
- Write gPLink
- Read gPOptions
- Write gPOptions
- Create computer objects
- Delete computer objects

Important It is recommended to execute the **Delegation of Control Wizard** on the domain container. However, it is also possible to execute the wizard on the **Xcalibur Global OU**, in which case it is important to verify that all **Xcalibur Global** related objects (both present and future) are contained in this OU.

Proceed as follows to delegate permissions to the **Xcalibur Admins** group via the **Delegation of Control Wizard**:

- 1) In the **Active Directory Users and Computers** window, select the pertinent domain in the left pane then right click to display the right-click menu, as illustrated.





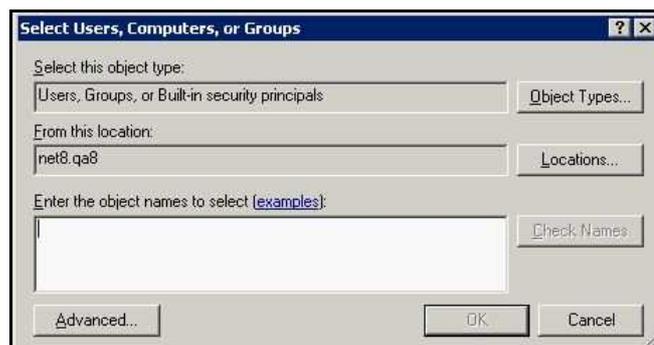
- 2) From the right click menu select **Delegate Control...** to run the **Delegation of Control Wizard**, as illustrated.



- 3) In the **Welcome to the Delegation of Control Wizard** window click **Next** to continue and display the **Users or Groups** window, as illustrated.



- 4) In the **Users or Groups** window, click **Add...** to display the **Select Users, Computers, or Groups** window, as illustrated.

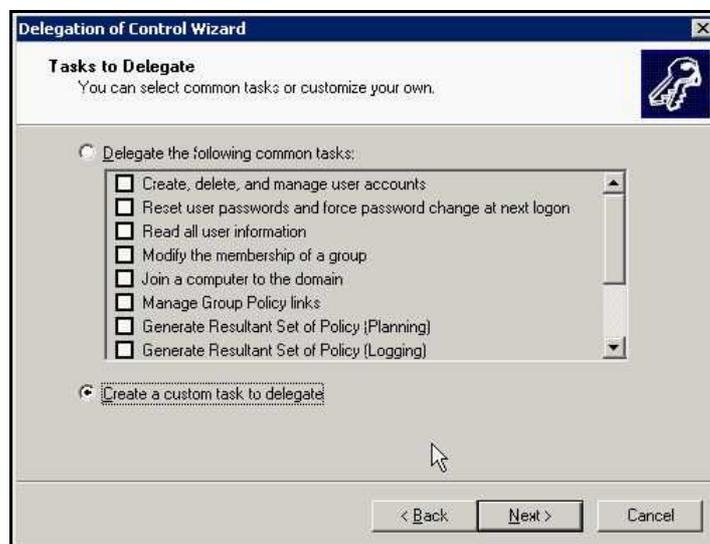




- 5) In the **Select Users, Computers, or Groups** window, in the **Enter the object names to select** field, enter **Xcalibur Admins** then click **Check Names** to verify the group name; a valid name is underlined automatically
- 6) Click **OK** to save your entry and return to the **Users or Groups** window - the entered group name is displayed, as illustrated.

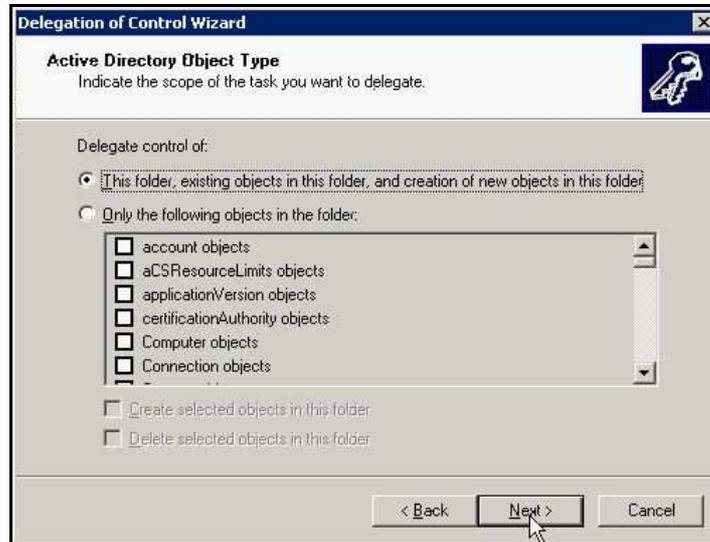


- 7) In the **Users or Groups** window, click **Next** to continue and display the **Tasks to Delegate** window.





- 8) In the **Tasks to Delegate** window, as illustrated, select the option **Create a custom task to delegate** then click **Next** to continue and display the **Active Directory Object Type** window.

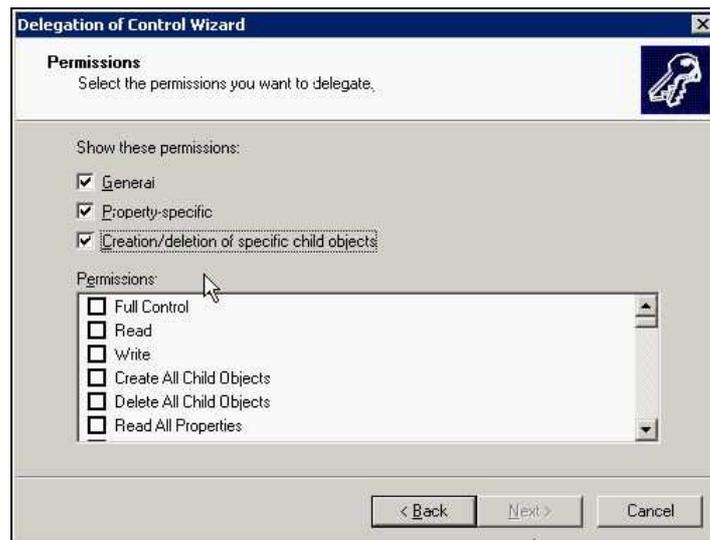


- 9) In the **Active Directory Object Type** window, as illustrated, select the option **This folder, existing objects in this folder, and creation of new objects in this folder**.

- 10) Click **Next** to continue and display the **Permissions** window.

- 11) In the **Permissions** window, as illustrated, check the following permission options:

- a) General
- b) Property-specific
- c) Creation/deletion of specific child objects





- 12) In the **Permissions** scroll box, use the scroll bar to scroll through the list and check the following permissions:
 - a) Generate Resultant Set of Policy (Planning)
 - b) Generate Resultant Set of Policy (Logging)
 - c) Read gPLink
 - d) Write gPLink
 - e) Read gPOptions
 - f) Write gPOptions
 - g) Create Computer objects
 - h) Delete Computer objects
- 13) Click **Next** to display the **Completing the Delegation of Control Wizard** window.



- 14) The **Completing the Delegation of Control Wizard** window, as illustrated, advises you that you have successfully completed the **Delegation of Control** wizard.
A list of all selected options is displayed - use the scroll bar to review the list. If changes are required click **Back** to locate the specific window, enter the required changes then click the **Next** button to return to this window.
- 15) Click **Finish** to complete and exit the wizard.
- 16) Proceed to the next stage, **Creating and Configuring an Xcalibur Global Administrative User Account**.



Creating and Configuring an Xcalibur Global Administrative User Account

The **Xcalibur Global** administrative user account is created for the purpose of performing the highest level administration tasks.

Stage 1- Creating an Xcalibur Global Administrative User Account

Create a new user account in the **Xcalibur Global** OU.

Use the following alternative definitions while repeating the procedure described in the section **Creating an Xcalibur Global Default User Account**:

First Name	Xcalibur Administrator
User logon name	xcaliburadministrator
Password	Enter a valid password.
Confirm password	Enter the password again for confirmation.

All other options must remain unchecked

Stage 2 - Assigning Permissions to Xcalibur Global Administrative users

Management permissions are assigned to **Xcalibur Global** Administrative users by adding the user account to the following groups:

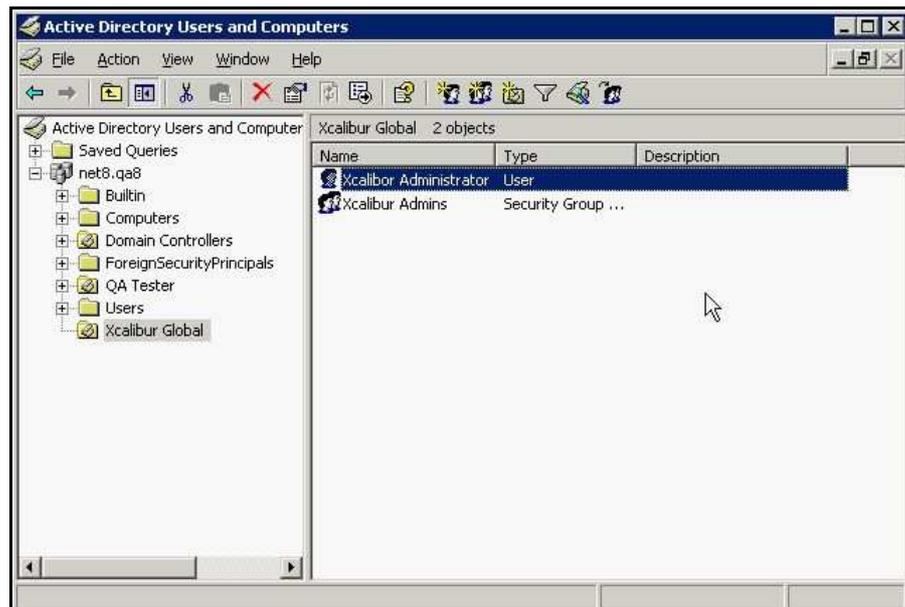
- Xcalibur Admins
- Group Policy Creator Owners



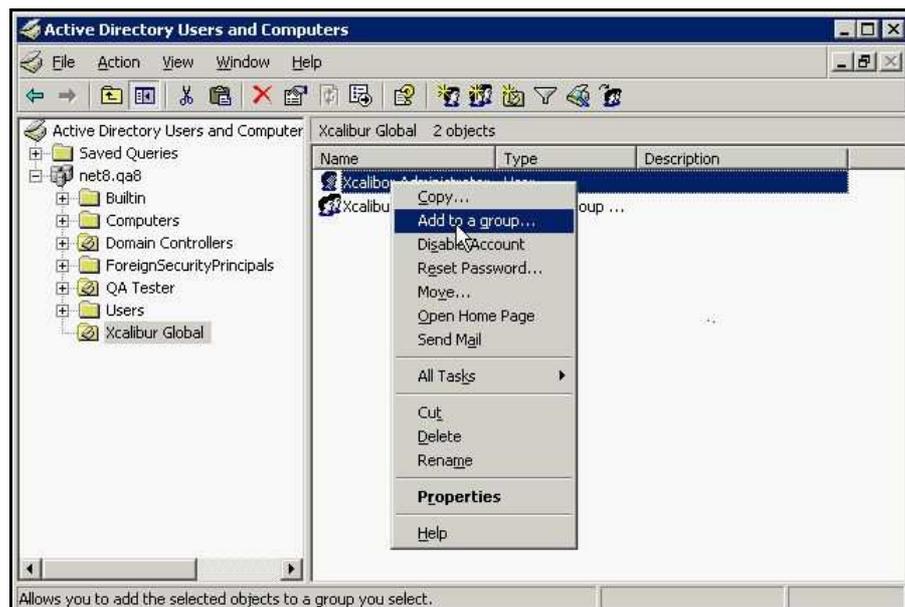
Proceed as follows to assign management permissions to **Xcalibur Global** administrative users:

Adding the User to the Xcalibur Admins Group

- 1) In the **Active Directory Users and Computers** window, under the pertinent domain in the left pane, select and highlight the previously-created OU **Xcalibur Global** to display all contained objects in the right pane, as illustrated.

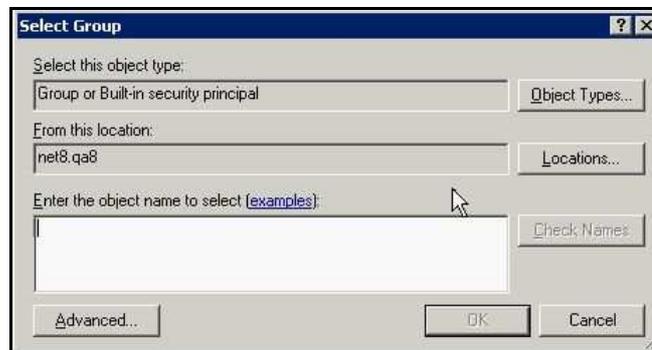


- 2) In the right pane select **Xcalibur Administrator**. From the right-click menu select **Add to a group...** as illustrated, to display the **Select Group** window.

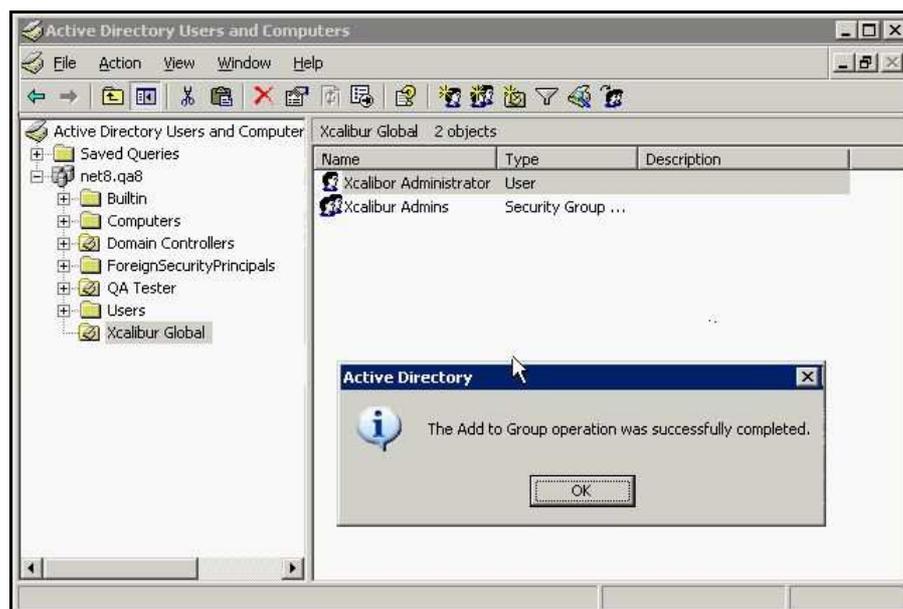




- 3) In the **Select Group** window, as illustrated, in the **Enter the object name to select** field, enter **Xcalibur Admins** then click **Check Names** to verify the group name; a valid name is underlined automatically.



- 4) Click **OK** to save your entry and return to the **Active Directory Users and Computers** window.
- 5) An **Active Directory** information message displays, as illustrated, advising you that the **Add to Group** operation was successfully completed.



- 6) Click **OK** in the **Active Directory** information message window to continue.

Adding the User to the Group Policy Creator Owners Group

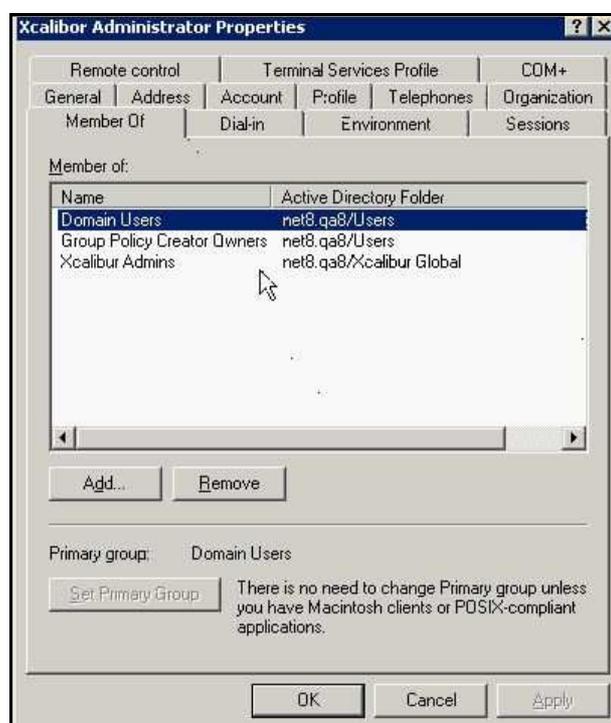
- 1) In the **Active Directory Users and Computers** window, in the right pane select and highlight **Xcalibur Administrator**.
- 2) From the right-click menu select **Add to a group...** to display the **Select Group** window.
- 3) In the **Enter the object name to select** field, enter **Group Policy Creator Owners** then click **Check Names** to verify the object name; a valid name is underlined automatically.



- 4) Click **OK** to save your entry and return to the **Active Directory Users and Computers** window.
- 5) An **Active Windows** information message displays, advising you that the **Add to Group** operation was successfully completed.

Verifying the User's Group Membership

- 1) To verify that the administrative user **Xcalibur Administrator** is a member of all the required groups, in the **Active Directory Users and Computers** window, in the right pane select and highlight **Xcalibur Administrator**.
- 2) From the right-click menu select **Properties** to display the **Xcalibur Administrator Properties** window, as illustrated, then click the **Member Of** tab to display the **Member Of** page.



- 3) Verify that the following groups are listed:
 - a) Domain Users
 - b) Group Policy Creator Owners
 - c) Xcalibur Admins
- 4) Click **OK** to exit the **Xcalibur Administrator Properties** window.
- 5) Proceed to the next section, **Creating and Configuring an Xcalibur Global Front End Server Service Account**.



Creating and Configuring an Xcalibur Global Front End Server Service Account

The **Xcalibur Global** Front End Server service account is required by the Front End Server service in order to log on as a service.

Stage 1- Create an Xcalibur Global Service Account

Create a new user account in the **Xcalibur Global** OU.

Use the following alternative definitions while repeating the procedure described in the section **Creating an Xcalibur Global Default User Account**:

First Name	xcaliburservice
User logon name	xcaliburservice
Password	Enter a valid password.
Confirm password	Enter the password again for confirmation.

Select the option **User cannot change password**.

Select the option **Password never expires**.

All other options must remain unchecked.

Proceed to the next stage, **Assigning Permissions for the Xcalibur Global Service Account**.

Stage 2 - Assigning Permissions for the Xcalibur Global Service Account

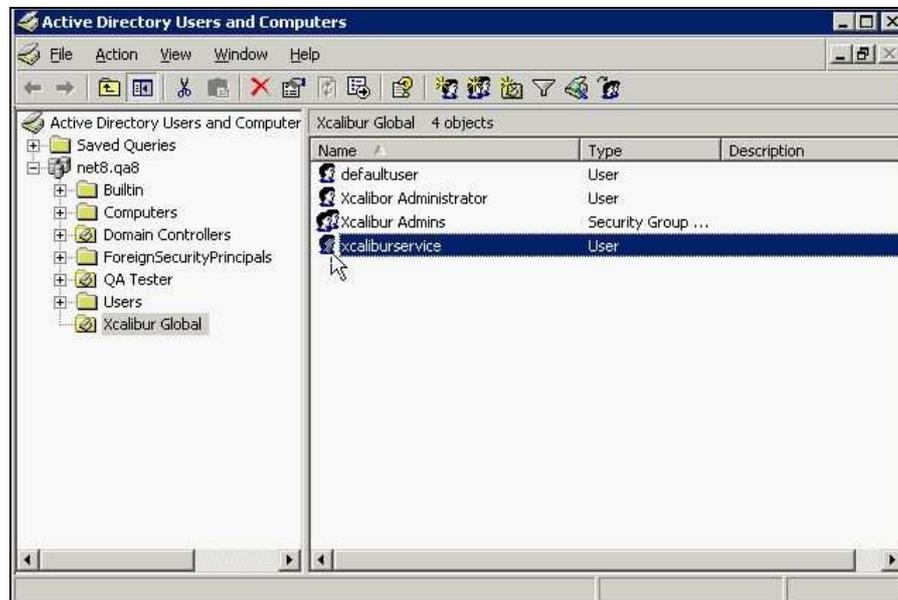
The **Xcalibur Global** service account is assigned permissions by adding it as a member to the following groups:

- Local Administrators on the Front End Server computer (required)
- Domain Users (required)
- Xcalibur Admins (highly recommended)
- Domain Admins (recommended)

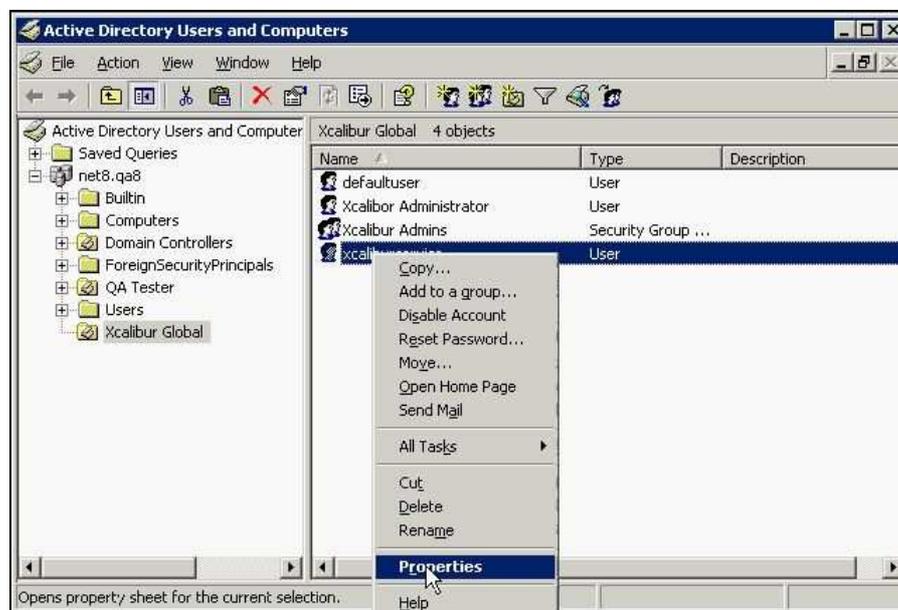


Adding the Xcalibur Global Service Account to Domain Groups

- 1) In the **Active Directory Users and Computers** window, select and highlight the previously-created OU **Xcalibur Global** in the left pane to display all attached objects in the right pane.

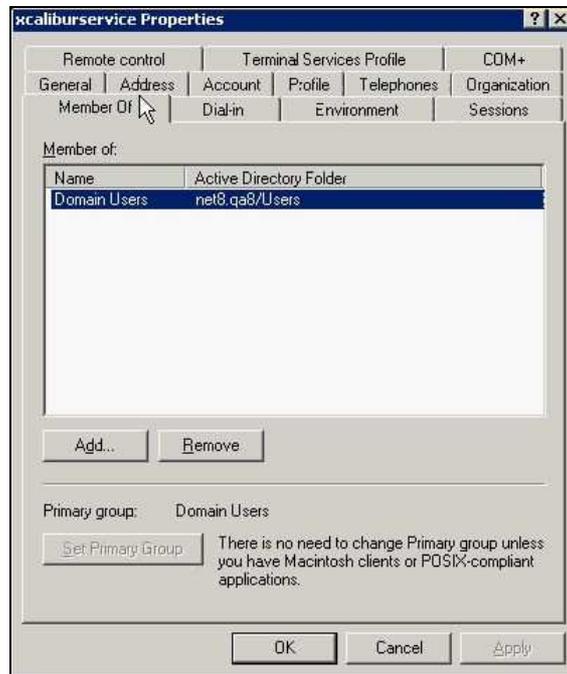


- 2) In the right pane, select and highlight the user **xcaliburservice** then from the right-click menu select **Properties** to display the **xcaliburservice Properties** window.





- 3) In the **xcaliburservice Properties** window, click the **Member Of** tab to display the **Member Of** window, as illustrated.



- 4) Click **Add...** to display the **Select Group** window, as illustrated.



- 5) In the **Enter the object name to select** field enter **Xcalibur Admins** then click **Check Names** to verify the group name; a valid name is underlined automatically.



- 6) Click **OK** to save your entry and return to the **Member Of** page.
The new group name, **Xcalibur Admins**, is listed as a member in the **Member Of** page, as illustrated.



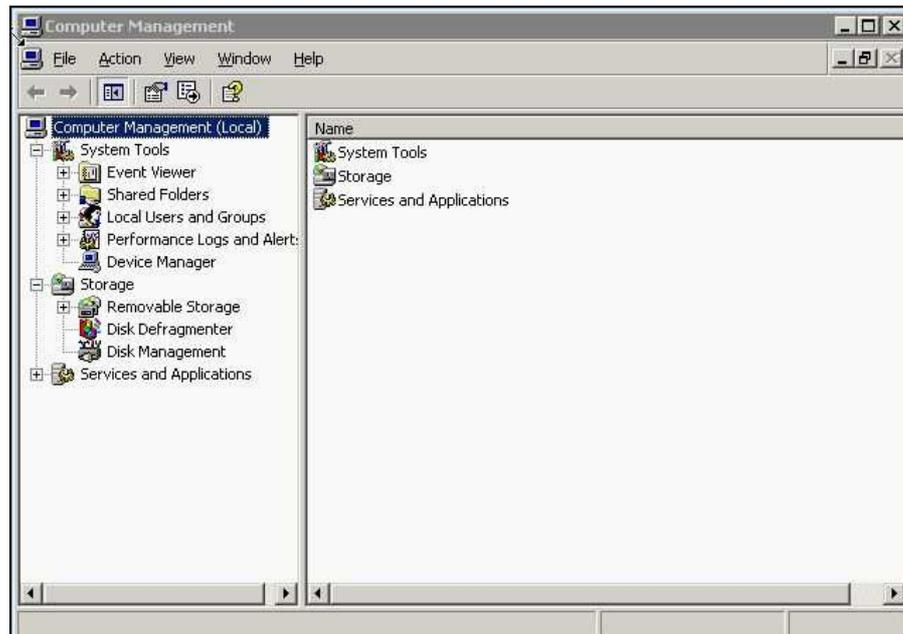
- 7) Click **Add...** to display the **Select Group** window.
- 8) In the **Enter the object name to select** field, enter **Domain Admins** then click **Check Names** to verify the group name; a valid name is underlined automatically.
- 9) Click **OK** to save your entry and return to the **Member Of** page.
- 10) The new group name, **Domain Admins**, is listed as a member in the **Member Of** page, as illustrated.
- 11) Click **OK** to save your changes and exit the **xcaliburservice Properties** window.



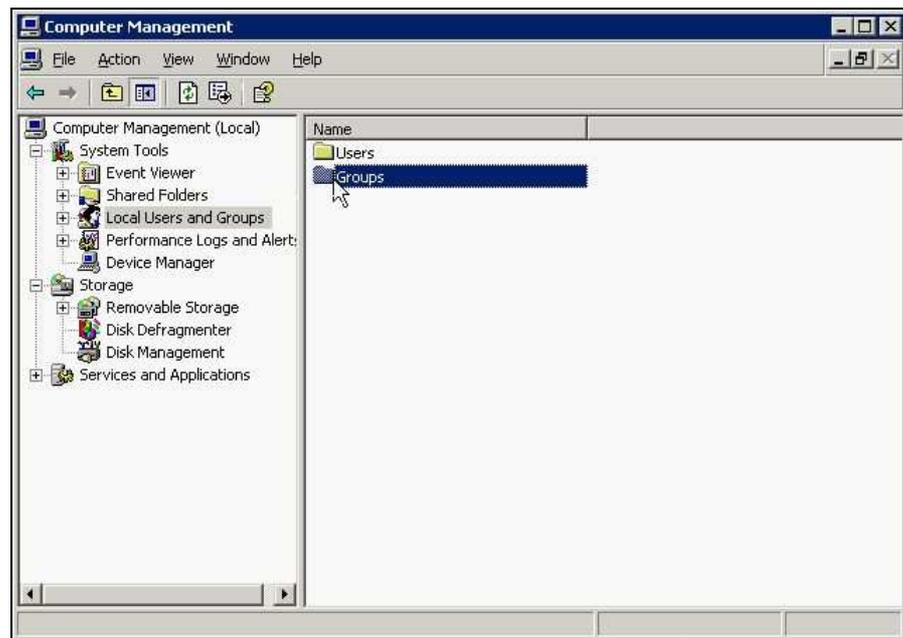
Adding the Xcalibur Global Service Account to Local Computer Groups

Perform the following task on the computer that will host the Front End Server:

- 1) From the **Start** button locate the **Administrative Tools** and select **Computer Management** to display the **Computer Management** window, as illustrated.

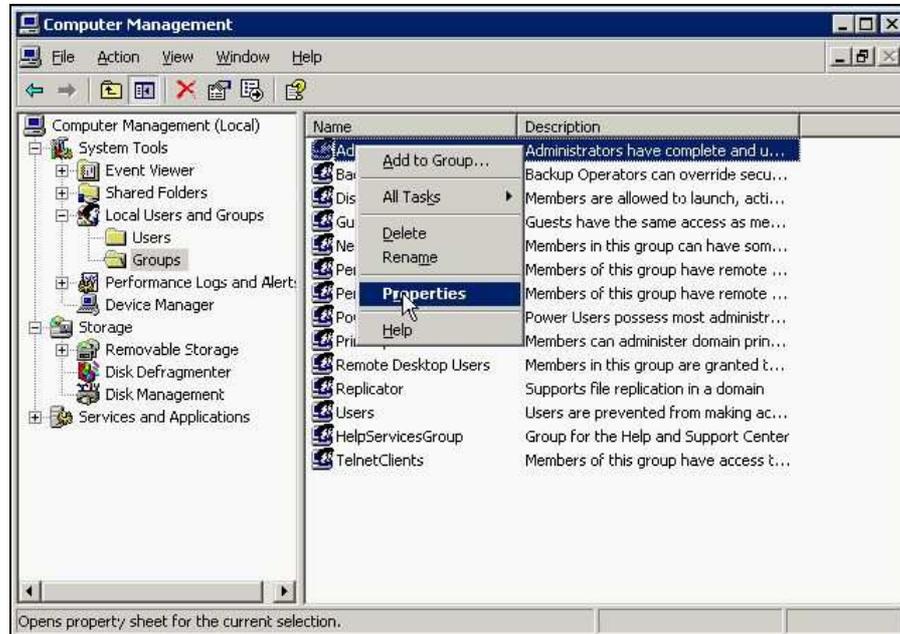


- 2) In the **Computer Management** window, in the left pane, expand **System Tools** then select and highlight **Local Users and Groups**, as illustrated.





- 3) In the right pane, double-click **Groups** to display a list of group names.
- 4) In the right pane select and highlight the group name **Administrators** and from the right-click menu select **Properties**, as illustrated, to display the **Administrators Properties** window.

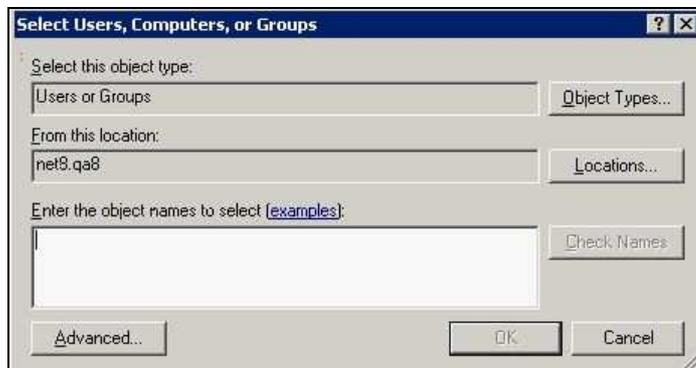


- 5) In the **Administrators Properties** window, as illustrated, click **Add...** to display the **Select Users, Computers, or Groups** window, as illustrated.



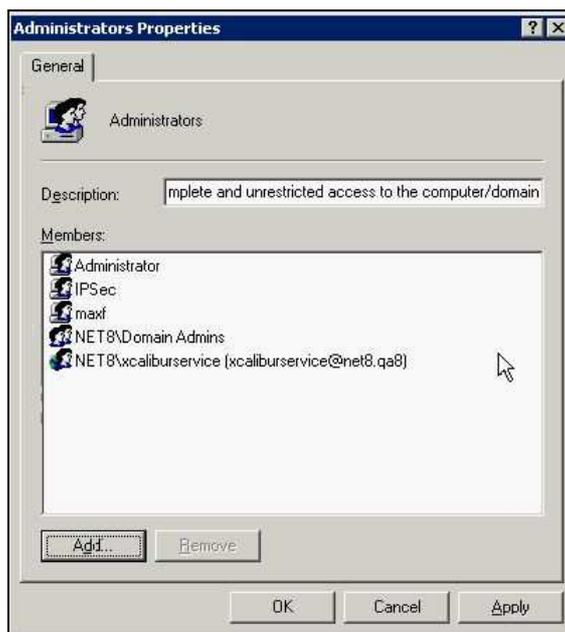


- 6) In the **Select Users, Computers, or Groups** window, in the **Enter the object names to select** field, enter **xcaliburservice** then click **Check Names** to verify the group name; a valid name is underlined automatically.



- 7) Click **OK** to save your entry and return to the **Administrators Properties** window.

In the **Administrators Properties** window, the entered group name is added to the list in the section **Members**, as illustrated.



- 8) Click **OK** to save your changes and exit the **Administrators Properties** window.
- 9) In the **Computer Management** window, select **File, Exit** to close the window.
- 10) Proceed to the next chapter, **Installation Prerequisites**.



Chapter 6 Installation Prerequisites

This chapter describes all prerequisites that must be adhered to prior to installing **Xcalibur Global**.

Introduction

The following prerequisites must be adhered to prior to installing **Xcalibur Global**:

- 1) Verify that all system requirements are met.
- 2) Verify that the installing user has Windows local administrative rights.
- 3) Verify that the installing user has SQL Administration/DB Ownership rights.
- 4) Verify that the installing user has Active Directory permissions.
- 5) Verify that the servers have domain membership.
- 6) Verify that UAC is disabled (Windows 2008/7 only).

Verifying System Requirements

Verify that the servers on which **Xcalibur Global** components are being installed comply with all system requirements specified in Chapter 3.

Verify Windows Local Administrative Rights

Verify that the user account used to perform the installation has local administrative privileges on the computer destined to host the **Xcalibur Global** components.

Administrative privileges are required to run Windows Installer packages.

Verify SQL Administration/DB Ownership Rights

The **Xcalibur Global** database component provides two installation options:

- Create a new database
- Use an existing database

The user account used to perform the installation option must have one of the following permissions:

- Create new database - requires the user to have SQL Administration rights
- Use an existing database - requires the user to have DB Owner rights on the particular database

Verify Active Directory Permissions

Verify that the user account used to perform the installation option has at least Read permission at the domain level.

It is recommended to run the installation with a user account that is a member of the Domain Admins group.



Verifying Server Domain Membership

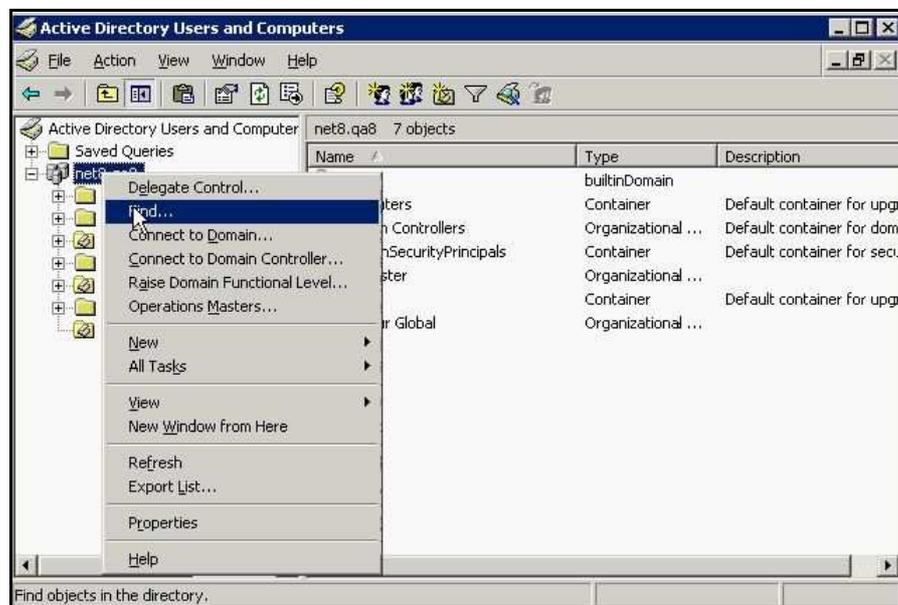
Verification needs to be made that the computer (or computers) used to run **Xcalibur Global** components are members of the domain in which the pre-installation tasks were performed. Verification can be performed using either of the following methods:

- Domain-side verification
- Computer-side verification

Domain-Side Verification

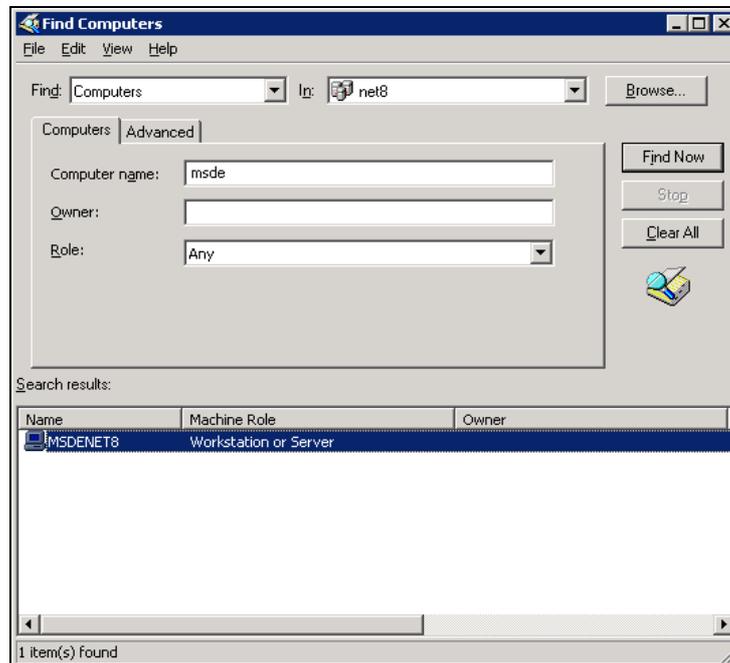
Proceed as follows to verify domain membership on the domain side:

- 1) In the **Active Directory Users and Computers** window, select and highlight the pertinent domain in the left pane, and from the right-click menu select **Find**, as illustrated, to display the **Find Users, Contacts, and Groups** window.





- 2) In the **Find Users, Contacts, and Groups** window, as illustrated, in the **Find** dropdown box select **Computers**.



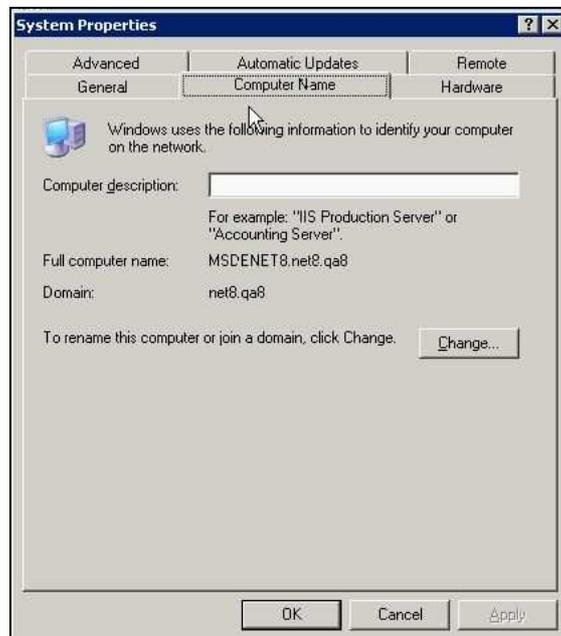
- 3) In the **In** dropdown box select the pertinent domain.
- 4) Click the **Computers** tab and in the **Computer name** text box enter the computer name required to run **Xcalibur Global** components.
- 5) In the **Search results** section, verify that the selected computer name required to run **Xcalibur Global** components is listed for the selected domain.



Computer-Side Verification

Proceed as follows to verify domain membership on the computer side:

- 1) From the desktop select **My Computer** then from the right-click menu select **Properties** to display the **System Properties** window, as illustrated.



- 2) In the **System Properties** window click the **Computer Name** tab to display the **Computer Name** window, as illustrated.
- 3) Verify that the **Domain** field displays the correct domain.
- 4) Click **OK** to exit the **System Properties** window.
- 5) Proceed to the next chapter, **Installing Xcalibur Global**.

Verify that UAC is disabled

Verify that UAC is disabled during the **Xcalibur Global** installation process.

To disable UAC apply the following Group Policy:

*Computer Configuration \ Policies \ Windows Settings \ Security Settings \ Local Policies \ Security Options *

User Account Control: Run all administrators in Admin Approval Mode

Policy setting: *Disabled*



Chapter 7 Installing Xcalibur Global

This chapter describes the process for installing **Xcalibur Global**, including how to install the **Xcalibur Global** Database, the Front End Server and the Management Console.

Introduction

After performing all pre-installation tasks and complying with all the installation prerequisites, the user can now proceed to install **Xcalibur Global**.

As previously mentioned, the core of the **Xcalibur Global** consists of the following system components:

- The Database Server
- The Front End Server
- The Management Console

The following rules apply when installing system components:

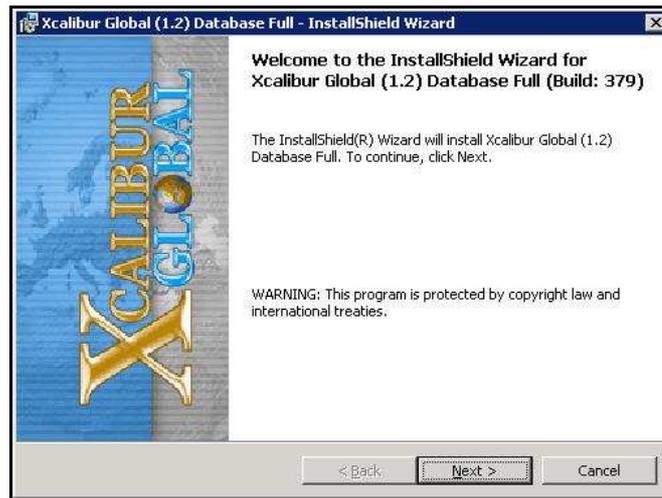
- The components can be all installed on the same computer or on separate computers.
- The Database Server must be installed before any other component.
- Only one Database Server can be installed in an **Xcalibur Global** system.
- Multiple installations of Front End Servers and Management Consoles are allowed within a single **Xcalibur Global** system.



Installing the Database

To run the **Xcalibur Global** installation process, proceed as follows:

- 1) From the installation media, run the MSI file **Xcalibur Global (1.2) Database Full**, to display the **Welcome** window, as illustrated, advising you that the **Xcalibur Global 1.2 Database Setup** is installing the database.



- 2) Click **Next** to continue to the next window and display the **License Agreement** window.

At any time during the installation process:

- Click **Cancel** to abort the installation
- Click **Back** to return to a previous window and make any necessary changes

- 3) Read the **Chip PC Software License Agreement** in the **License Agreement** window and select an option before proceeding with the database installation.





- **I accept the terms in the license agreement** - select this option to accept the terms and conditions for using the **Chip PC Software** and product
 - **I do not accept the terms in the license agreement** - select this option if you do not accept the terms and conditions for using the **Chip PC Software** and product. When you click **Next** to continue, the installation process is aborted.
 - **Print** - click to display the **Print** window to print a full copy of the license agreement.
- 4) Click **Next** to continue with the database installation and display the **Database Server** window, as illustrated.



- 5) Click **Browse...** to display a list of servers in the **Browse** window.



- 7) In the **Browse** window select the destination server then click **OK** to save the selection and exit the window. The selected server is added to the **Database Server** selection box.



- 8) If the server name is not listed in the **Browse** window, enter the server name manually in the **Destination Server** selection box.
- 9) In the **Database Server** window select one of the following options:
 - **Windows authentication using the credentials of the current user**
 - Or
 - **Server authentication using the Login ID and password below**

Login ID Enter the applicable SQL login ID (sa) for the selected server

Password Enter the applicable password for the selected server
- 10) Click **Next** to continue with the database installation process and display the **Database Selection** window, as illustrated.



- 11) In the **Database Selection** window, select one of the following options:
 - **Create new database** - this option is selected by default and a database name is automatically entered in the **Database name** text box. (If preferred, enter a different name directly into the text box.)
 - **Select existing database** - click **Browse** to display a list of databases in the **Browse** window and select the desired database.

Note If the database name is not listed in the **Browse** window, enter the database name manually in the **Database name** text box.
- 12) Click **Next** to continue with the database installation process and display the **Xcalibur Global 1.2 Service Account Information** window.



The **Xcalibur Global 1.2 Service Account Information** window, as illustrated, enables you to specify the authentication method and the credentials that will be required from the **Front End Server** service when accessing the **Xcalibur Global** database.



13) In the **Xcalibur 1.2 Service Account Information** window, select **one** of the following authentication methods:

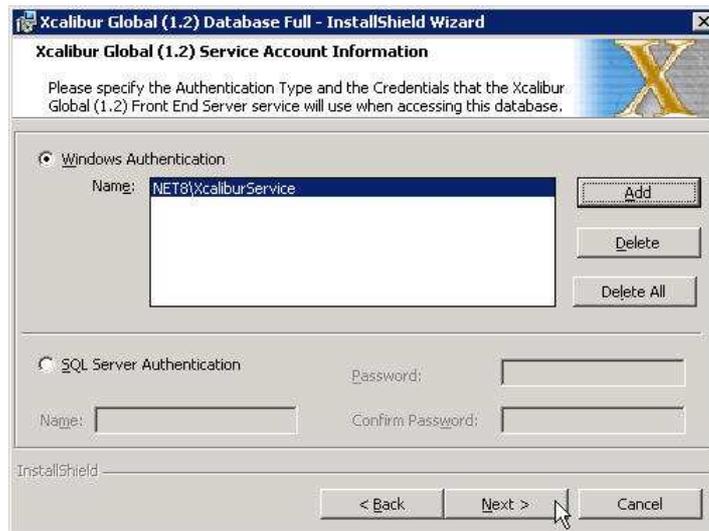
- Windows Authentication
- SQL Server Authentication

a) Windows Authentication

- i) Click **Add** to display the **Select Users or Groups** window, as illustrated.



- ii) In the **Select Users or Groups** window, in the **Enter the object names to select** field, enter **xcaliburservice** then click **Check Names** to verify the object name; a valid name is underlined automatically.
- iii) Click **OK** to save your entry and return to the **Xcalibur Global 1.2 Service Account Information** window; the entered object name is listed in the **Windows Authentication** pane, as illustrated.



b) SQL Server Authentication

Complete the following credential fields:

- Name** Enter the name of the SQL user (sa)
- Password** Enter the password for the SQL user name
- Confirm Password** Enter the password again to confirm the password for the SQL user

13) Click **Next** to continue with the database installation process and display the **Xcalibur Global 1.2 Management Account Information** window, as illustrated.

The **Xcalibur Global 1.2 Management Account Information** window, as illustrated, enables you to specify the authentication method and the credentials that will be required when attempting to connect to the database via the **Xcalibur Global Management Console**.





14) In the **Xcalibur Global 1.2 Management Service Account Information** window select **one** of the following authentication methods:

- Windows Authentication
- SQL Server Authentication

a) Windows Authentication

- i) Click **Add** to display the **Select Users or Groups** window, as illustrated.



- ii) In the **Select Users or Groups** window, in the **Enter the object names to select** field, enter **Xcalibur Admins** then click **Check Names** to verify the object name; a valid name is underlined automatically.

- iii) Click **OK** to save your entry and return to the **Xcalibur Global 1.2 Management Account Information** window; the entered object name is listed in the **Windows Authentication** pane.



b) SQL Server Authentication

Complete the following credential fields:

- | | |
|-------------------------|---|
| Name | Enter the name of the SQL user (sa) |
| Password | Enter the password for the SQL user name |
| Confirm Password | Enter the password again to confirm the password for the SQL user |



- 15) Click **Next** to continue with the database installation process and display the **Software Packages Installation** window, as illustrated.



- 16) In the **Software Packages Installation** window, select one of the following options:

- **Don't install packages, I will install them later** - select this option if you want to skip package installation during setup.
- **Install packages from** - select this option to install software packages into the Xcalibur Database during the installation process. As default all plug-ins files which are stored in the **Plug-ins** folder on the installation CD will be installed. To change the path from where Plug-ins are taken click **Change...** and select a different path.

- 17) Click **Next** to continue with the database installation process and display the **Import Policy Templates** window, as illustrated.

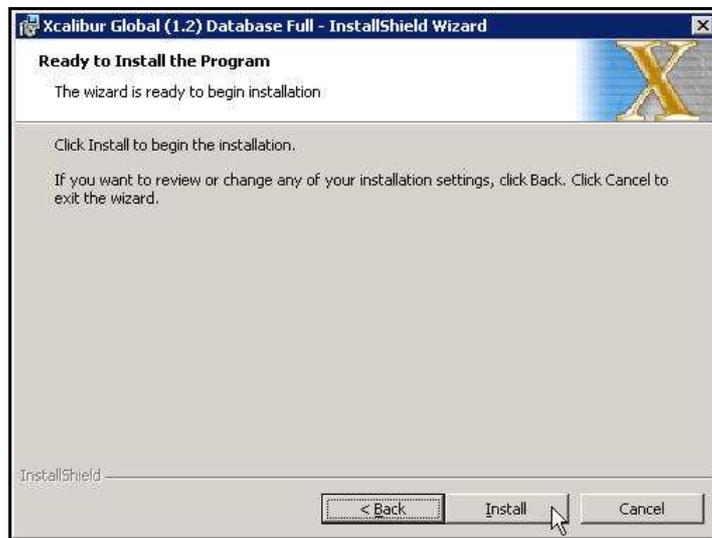




18) In the **Import Policy Templates** window, select one of the following options:

- **Don't import templates, I will import them later** - select this option if you want to skip policy template installation during setup.
- **Install templates from** - select this option to install policy templates into the Xcalibur Database during the installation process. As default all policy templates which are stored in the **Templates** folder on the installation CD will be installed. To change the path from where policy templates are taken click **Change...** and select a different path.

19) Click **Next** to continue with the database installation process and display the **Ready to Install the Program** window, as illustrated.



The **Ready to Install the Program** window advises you that the database is now ready to be installed.

Important If necessary, click **Back** now to make any last-minute changes to your selections. When the installation commences, you will be unable to stop the process until the installation is completed.



20) Click **Install** to continue and install the **Xcalibur Global 1.2 Database**.

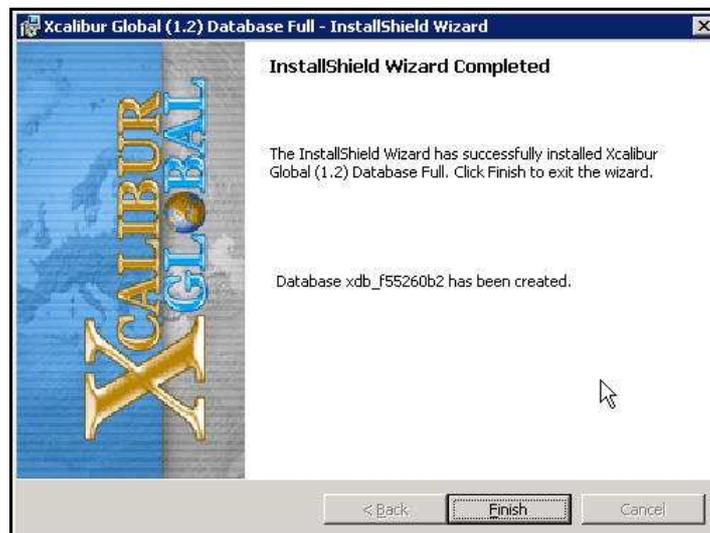
The installation process for the selected features may take several minutes to complete.

During the installation process, status is shown in the **Status** bar, as illustrated.



21) Upon completion, the **InstallShield Wizard Completed** window displays, as illustrated, informing you that the program has successfully installed the **Xcalibur Global 1.2 Database**.

Note The name of the created database is displayed. It is recommended that a record of the database name be kept for future reference.



22) Click **Finish** to complete the process and exit the installation wizard.

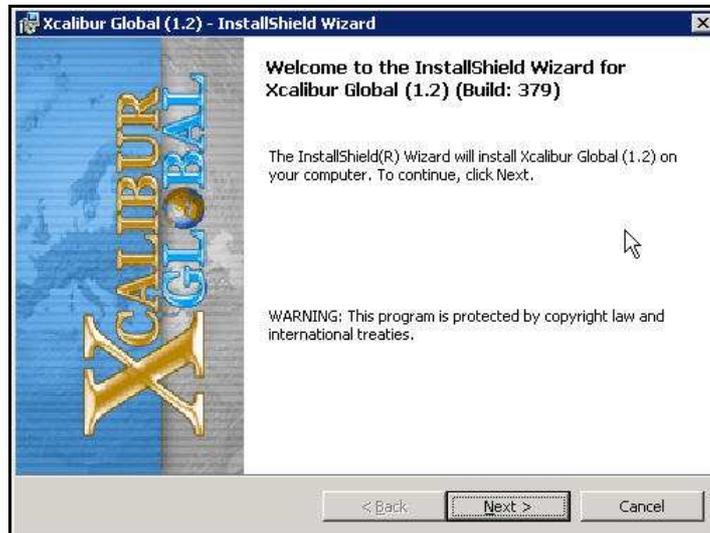
23) Proceed to the next step, **Installing the Front End Server**.



Installing the Front End Server

Proceed as follows to install the **Front End Server** component:

- 1) From the installation media, run the MSI file **Xcalibur Global (1.2) Front End Server**, to display the **Welcome** window, as illustrated, advising you that the **Xcalibur Global 1.2 Setup** is preparing the setup process.



- 2) Click **Next** to continue to the next window and display the **License Agreement** window, as illustrated.





- 3) Read the **Chip PC Software License Agreement** in the **License Agreement** window and select an option before proceeding with the **Front End Server** installation.
 - **I accept the terms in the license agreement** - select this option to accept the terms and conditions for using the **Chip PC Software** and product
 - **I do not accept the terms in the license agreement** - select this option if you do not accept the terms and conditions for using the **Chip PC Software** and product. When you click **Next** to continue, the installation process is aborted.
 - **Print** - click to display the **Print** window to print a full copy of the license agreement.
- 4) Click **Next** to continue with the **Front End Server** installation. When you select to accept the terms in the license agreement the process continues and the **Destination Folder** window displays.



In the **Destination Folder** window, as illustrated, the default path for the destination folder appears.

If preferred, click **Change...** to enter a different destination folder.

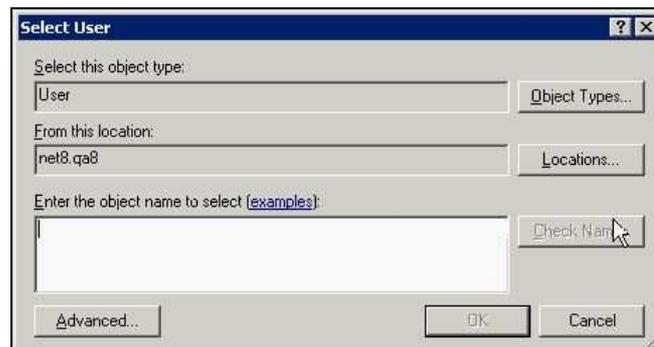
- 5) Click **Next** to continue with the **Front End Server** installation process and display the **Service Account Information** window.



- 6) The **Service Account Information** window, as illustrated, enables you to specify the domain user account used by the **Xcalibur Global 1.2** service.



- 7) Click **Browse...** to display the **Select Users** window, as illustrated, then in the **Enter the object names to select** field, enter **xcaliburservice**.



- 8) Click **Check Names** to verify the object name; a valid name is underlined automatically.
- 9) Click **OK** to save your entry and return to the **Service Account Information** window.



The account name **xcaliburservice** is added to the **Account Name** text box.

10) In the **Service Account Information** window, complete the following fields:

Password Enter a valid password

Confirm password Enter the password again for confirmation



11) Click **Next** to continue with the **Front End Server** installation process and display the **Service Settings** window, as illustrated.



The **Service Settings** window enables you to select various options in the possibility that the **Front End Server** service fails.

The following default options are selected automatically:

First failure	Take No Action (Recommended: Restart Service)
Second failure	Take No Action (Recommended: Restart Service)
Subsequent failure	Take No Action
Reset fail count after	0 day
Restart service after	1 minute



- 12) Click **Next** to continue with the **Front End Server** installation process and display the **Database Server** window, as illustrated.

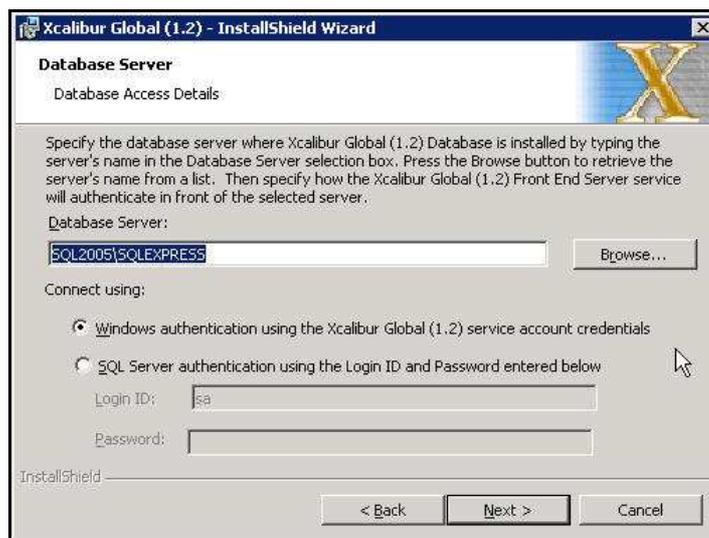


The **Database Server** window enables you to specify the database server where the **Xcalibur Global 1.2 Database** is installed, and specify how the **Front End Server** service authenticates with the selected server.

- 13) Click **Browse...** to display a list of servers in the **Browse** window.



- 14) In the **Browse** window select the server where the **Xcalibur Global 1.2 Database** is installed then click **OK** to save the selection and exit the window. The selected server appears in the **Database Server** text box.



Note If the desired server name is not listed in the **Browser** window, enter the server name manually in the **Database Server** text box.

15) In the **Database Server** window select **one** of the following options:

- Windows Authentication using the Xcalibur Global 1.2 service account credentials

Or

- SQL Server authentication using the SQL Login ID and Password entered below

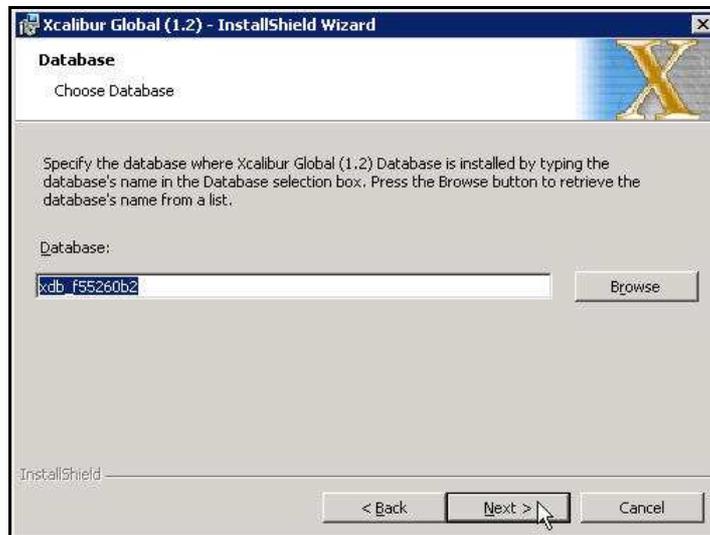
Login ID Enter the applicable SQL login ID (sa) for the selected server

Password Enter the applicable password for the SQL login ID

Note Enter the same authentication method and credentials that were specified during the database installation in the **Xcalibur Global 1.2 Service Account Information** window.



- 16) Click **Next** to continue with the **Front End Server** installation process and display the **Database** window.



In the **Database** window, as illustrated, a default database name is automatically generated in the **Database** text box.

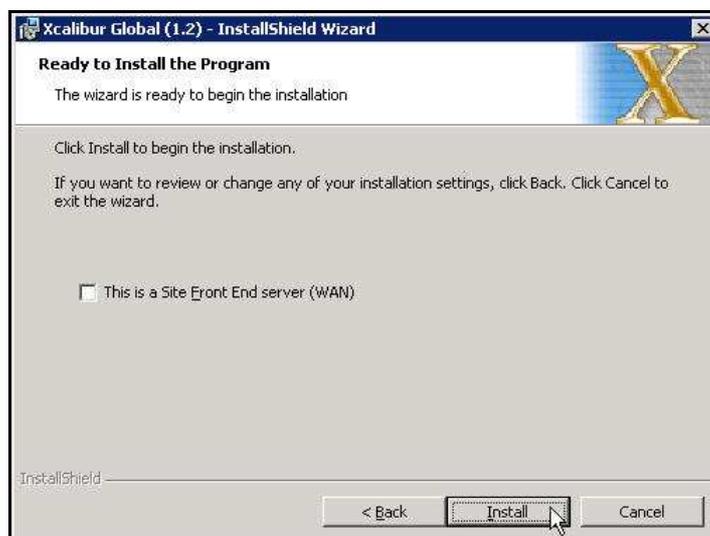
Make sure that the database name matches the database where **Xcalibur Global 1.2 Database** is installed.

To select the database from a list, click **Browse** and select the Xcalibur database from the list.

Note If the database name is not listed in the **Browse** window, enter the database name manually in the **Database** text box.

- 17) Click **Next** to continue with the **Front End Server** installation process and display the **Ready to Install the Program** window.

- 18) The **Ready to Install the Program** window now displays, as illustrated, informing you that the **Front End Server** service program is ready to be installed.





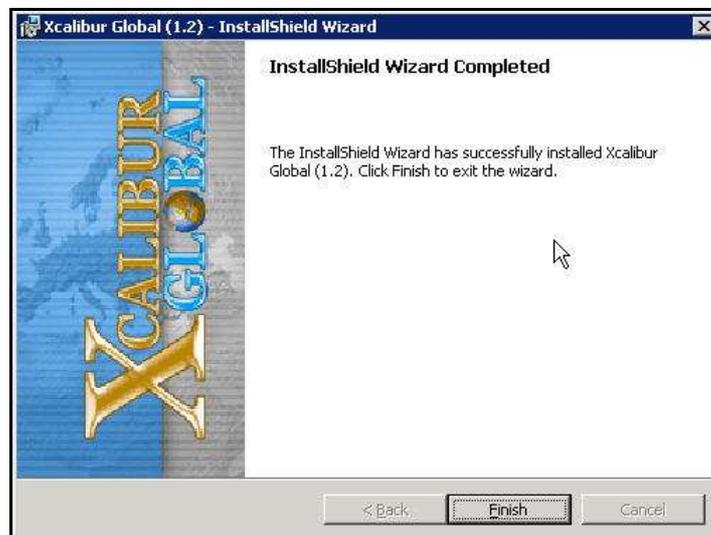
Note The option **This is a Site Front End server (WAN)** should remain unchecked.

19) Click **Install** to continue and install the **Front End Server** service.



During the installation process, status is shown in the **Status** bar, as illustrated.

20) Upon completion, the **InstallWizard Completion** window displays, as illustrated, informing you that the program successfully installed the **Xcalibur Global 1.2 Front End Server** service.



21) Click **Finish** to complete the process and exit the installation wizard.

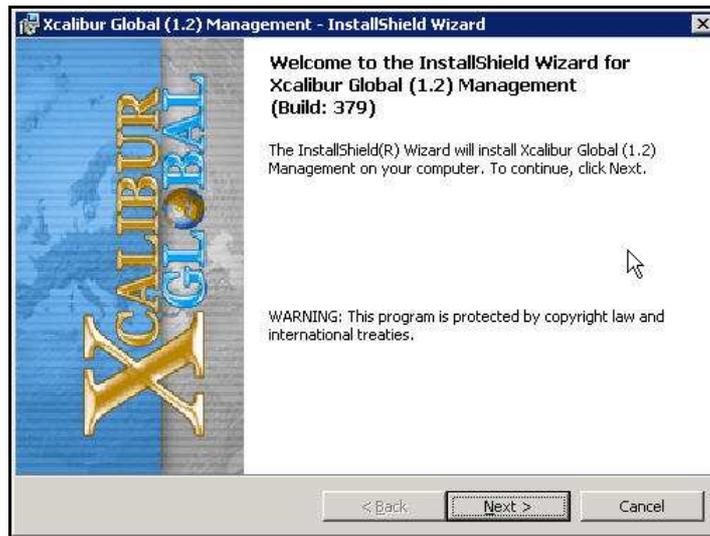
22) Proceed to the next installation process, **Installing the Management Console**.



Installing the Management Console

Proceed as follows to install the **Management Console**:

- 1) From the installation media, run the MSI file **Xcalibur Global (1.2) Management**, to display the **Welcome** window, as illustrated, informing you that the **Xcalibur Global 1.2 Management Setup** is preparing the setup process.



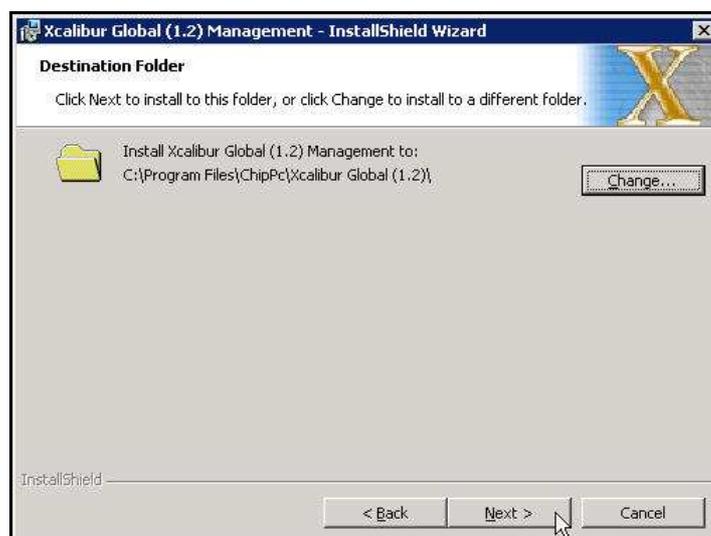
- 2) Click **Next** to continue with the installation process and display the **License Agreement** window.



- 3) Read the **Chip PC Software License Agreement** in the **License Agreement** window and select an option before proceeding with the **Management Console** installation.



- **I accept the terms in the license agreement** - select this option to accept the terms and conditions for using the **Chip PC Software** and product
 - **I do not accept the terms in the license agreement** - select this option if you do not accept the terms and conditions for using the **Chip PC Software** and product. When you click **Next** to continue, the installation process is aborted.
 - **Print** - click to display the **Print** window to print a full copy of the license agreement.
- 4) Click **Next** to continue with the **Management Console** installation. When you select to accept the terms in the license agreement the process continues and the **Destination Folder** window displays, as illustrated.





In the **Destination Folder** window, as illustrated, the default path for the destination folder appears.

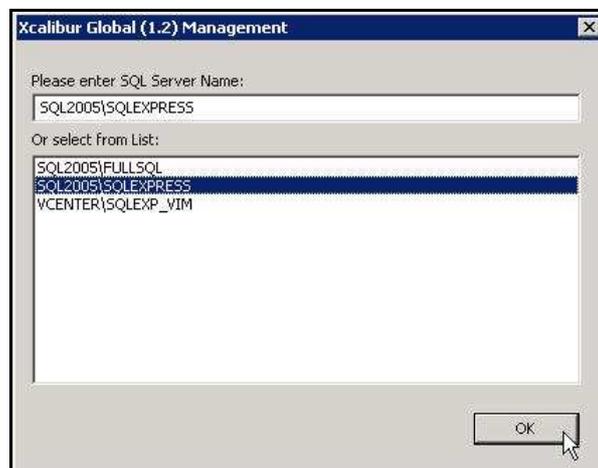
If preferred, click **Change...** to enter a different destination folder.

- 5) Click **Next** to continue with the **Management Console** installation process and display the **Database Server** window, as illustrated.



The **Database Server** window enables you to specify the database server where the **Xcalibur Global 1.2 Database** is installed, and how the **Management Console** authenticates with the selected server.

- 6) Click **Browse...** to display a list of servers in the **Browse** window.



- 7) In the **Browse** window select the server where the **Xcalibur Global 1.2 Database** is installed then click **OK** to save the selection and exit the window. The selected server appears in the **Database Server** text box.



Note If the server name is not listed in the **Browser** window, enter the server name manually in the **Database Server** text box.

In the **Database Server** window select **one** of the following options:

- Windows Authentication using the credentials of the current user

Or

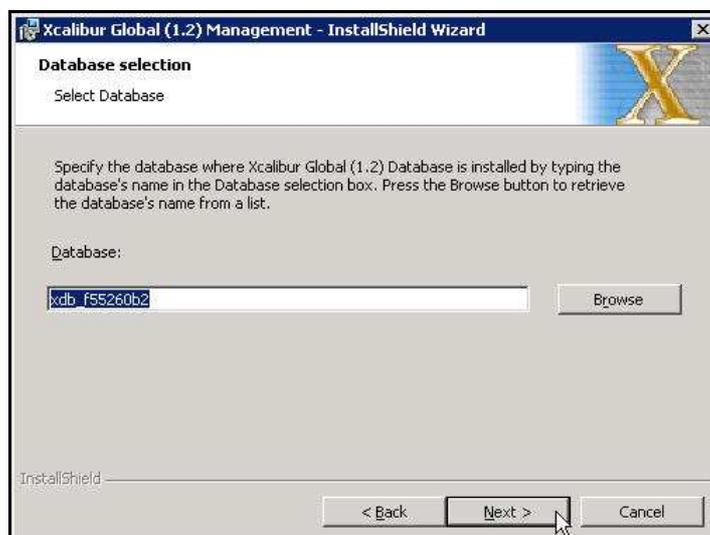
- SQL Server authentication using the Login ID and Password entered below

Login ID Enter the applicable SQL login ID (sa) for the selected server

Password Enter the password for the selected SQL login ID

Note Enter the same authentication method and credentials that were specified during the database installation in the **Xcalibur Global 1.2 Management Account Information** window.

8) Click **Next** to continue with the **Management Console** installation process and display the **Database Selection** window, as illustrated.





In the **Database** window, a default database name is automatically generated in the **Database** text box.

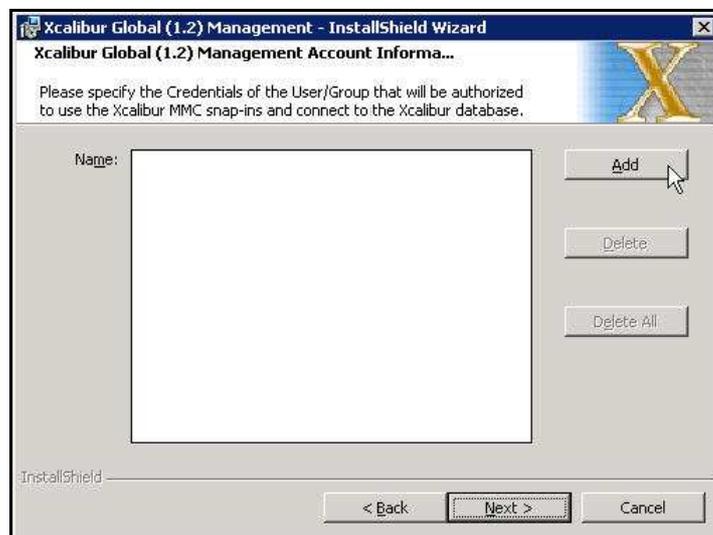
Make sure that the database name matches the database where **Xcalibur Global 1.2 Database** is installed.

To select the database from a list, click **Browse** and select the Xcalibur database from the list.

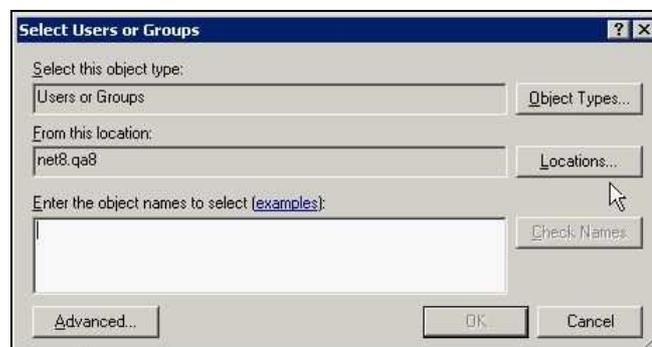
Note If the database name is not listed in the **Browse** window, enter the database name manually in the **Database** text box.

9) Click **Next** to continue with the **Management Console** installation process and display the **Xcalibur Global 1.2 Management Account Information** window.

10) In the **Xcalibur Global 1.2 Management Account Information** window, as illustrated, specify the credentials for the user/group authorized to use the **Xcalibur MMC** snap-ins and connect to the **Xcalibur** database.



11) Click **Add** to display the **Select Users or Groups** window, as illustrated. In the **Enter the object names to select** field, enter **Xcalibur Admins** then click **Check Names** to verify the object name; a valid name is underlined automatically.

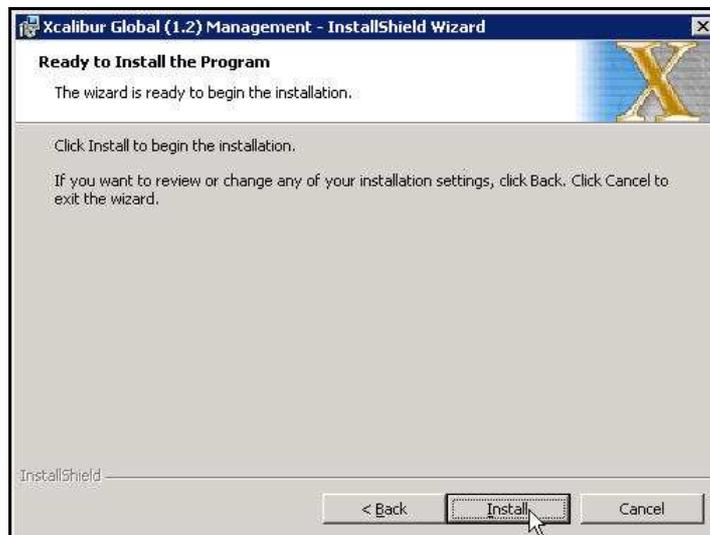




- 12) Click **OK** to save your entry and return to the **Xcalibur Global 1.2 Management Account Information** window; the entered object name is listed in the **Xcalibur Global 1.2 Management Account Information** window, as illustrated.



- 13) Click **Next** to continue with the **Management Console** installation process and display the **Ready to Install the Program** window, as illustrated.

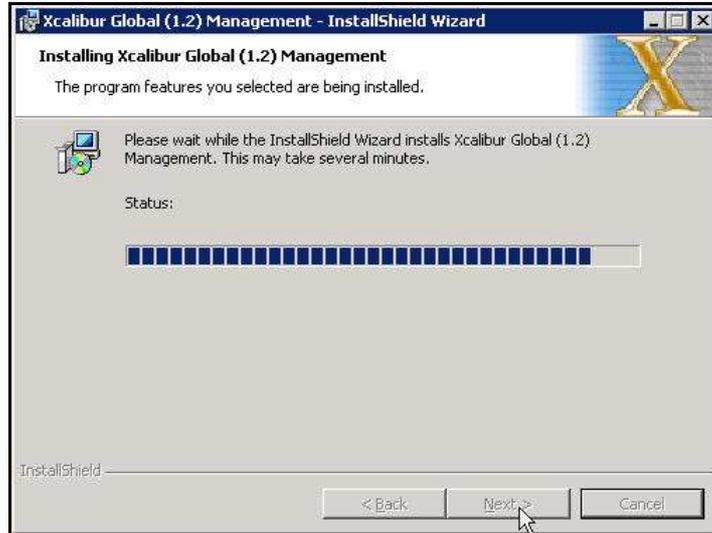


The **Ready to Install the Program** window advises you that the **Management Console** component is now ready to be installed.

Important If necessary, click **Back** now to make any last-minute changes to your selections. When the installation commences, you will be unable to stop the process until the installation is completed.

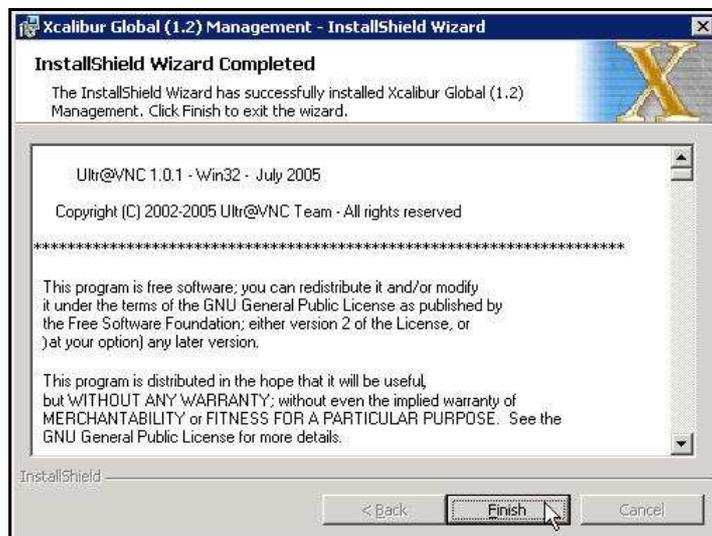


14) Click **Install** to continue and install the **Management Console** component.



During the installation process, status is shown in the **Status** bar, as illustrated.

15) Upon completion, the **Installing Xcalibur Global 1.2 Management** window displays, as illustrated, informing you that the program successfully installed the **Xcalibur Global 1.2 Management Console** component.



16) Read the copyright notice for the third party Ultr@VNC software.

17) Click **Finish** to complete the process and exit the installation wizard.



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