

# **Xcalibur Global - VDI Broker**

# **User Manual**

**Document Version 1.0** 



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## **Table of Contents**

CHAF	TER 1	INTRODUCTION	5
Hov	V TO USE TH	HIS DOCUMENT	.5
1	Step 1	- Understanding	.5
2	Step 2	- Planning	.5
3	Step 3	- Implementing	.5
4	Step 4	– Monitoring	.5
	otop i		
CHAF	TER 2	CONCEPTS	6
OVE	RVIEW		.6
Def	INITIONS		.7
1	Virtual	Desktop	.7
2	VD As	signment	.7
3	VDI Br	oker Plug-in	.7
4	Lease		.7
۵۵۵		EVELS	8
Δee		IEVELS.	ט. פ
			ט. פ
	SOURCE SE TVDE		0. 0
EYP		E	.5 ۵
			.5 ۵
5	Client	Side Process Autline	0
5	Sorvor	Side Process Outline	.9 IA
0		tan 1: Determine the Assignment Level (Liser/Device)	10
	6.2 St	tep 2. Examine the Assignment Method and Lease Status	11
	0.2 0		
CHAF	TER 3	PLANNING & IMPLEMENTING VD ASSIGNMENT1	2
PLA	NNING	1	2
1	Assian	ment Method	12
2	Assian	ment Level	12
3	VD So		12
4	l ease	Tyne	12
	Louoo	, , , , , , , , , , , , , , , , , , , ,	-
IMPL	EMENTING		3
1	Step 1	: Install the VDI Broker Plug-in onto the Thin Clients1	13
2	Step 2	: Configure The VDI Broker settings in Xcalibur Global 1	13
3	Step 3	: Launch a Virtual Desktop Session from the Thin Client 1	13
Con		THE VDI BROKER SETTINGS IN YOALIBUR GLOBAL	1
1	Manua	Illy Assigning a VD from a VMware Virtual Center, to a Device	14
1	11 A	ctive Directory Permissions	14
	1.2 X	calibur Farm Manager Permissions	14
	1.3 V	Mware Virtual Center Permissions	14
	1.4 X	calibur Global Virtual Center Settings	15
	1.5 X	calibur Global Device Settings	18
2	Manua	ally Assigning a VD from a VMware Virtual Center to a User 2	24
	2.1 A	ctive Directory Permissions	24
	2.2 X	calibur Farm Manager Permissions	24
	2.3 V	Mware Virtual Center Permissions	24
	2.4 X	calibur Global Virtual Center Settings	25
~	2.5 X	calibur Global User Settings	28
3	Manua	any Assigning a VD from the Active Directory to a Device	55
	3.1 A	ctive Directory Permissions	35
٨	J.Z X	Calibul Global Device Settings	10
4		any Assigning a volitorit the Active Directory to a User	+∠ 1つ
	4.1 A	calibur Global User Settings	+∠ 13
	r /		10



5 Autom	atically Assigning a VD from a VMware Virtual Center to a Device	
5.1 X	alibur Farm Manager Permissions	
5.2 V	Mware Virtual Center Permissions	
5.3 X	alibur Global Virtual Center Settings	
6 Autom	atically Assigning a VD from a VMware Virtual Center to a User	
61 X	alically Assigning a VD nonn a vinware vintual Genter to a Oser	
6.2 V	Allean Variation Manager Permissions.	
6.3 X	alibur Global Virtual Center Settings	64
6.4 X	calibur Global User Settings	67
7 Autom	atically Assigning a VD from the Active Directory to a Device	
7.1 A	tive Directory Permissions	77
7.2 X	alibur Farm Manager Permissions	
7.3 X	alibur Global Device Settings	
8 Autom	atically Assigning a VD from the Active Directory to a User	
0.1 A	alibur Farm Manager Permissions	
8.3 X	alibur Farm Manager Fermissions	
0.0 7.		
CHAPTER 4	MONITORING	95
USING DESKTO	PS TO MONITOR VD ASSIGNMENTS	
1 Access	ing the Desktops Section	
2 Monito	ring Listed VD Assignments	
2.1 V	D Assignment lcons	
2.2 V	DI Usage Properties	
3 Deskto	ps Management Options	
3.1 K 3.2 G	eneral Tasks	
USING FIND TO	MONITOR VD ASSIGNMENTS	102
1 Using	Find to Search for VD Assignments	102
2 Monito	ring Listed VD Assignments	107
3 Deskto	ns Management Ontions	107
o Doolaa		
CHAPTER 5	ADVANCED VD ASSIGNMENT	108
FILTERING		108
APPENDIX A	PROHIBITED VD ASSIGNMENT	
4 Instance - 1-		400
1 Introdu	ction	
2 PIUND	ting VD Assignment to a Llear	
3 PIOND		
APPENDIX B	HOW TO INSTALL THE VDI BROKER PLUG-IN ONTO TCS	115
1 Object	Ves	
2 Proced	ure	
2.1 S	elect the OU Containing the Target TCs	
2.2 C	eate an Xcalibur Policy that is Linked to the Target OU	
2.3 C	onfigure the Xcalibur Policy to install the VDI Broker Plug-in	119
3 Proces	s Outcome:	121
APPENDIX C	HOW TO LAUNCH A VIRTUAL DESKTOP SESSION	
APPENDIX D	CREATING VDI BROKER COMPATIBLE ACCOUNTS VIA SCRIPT	Г125



## Chapter 1 Introduction

### How to use this document

1 Step 1 - Understanding

Carefully read Chapter 2 (Concepts) to understand how the Xcalibur VDI Broker operates.

### 2 Step 2 - Planning

Review the "Planning" section inChapter 3 in order to decide on the appropriate implementation scenario.

#### 3 Step 3 - Implementing

Perform the 3 steps in the "Implementing" section of Chapter 3, select the appropriate implementation scenario and follow the procedures described to configure the Xcalibur VDI Broker.

#### 4 Step 4 – Monitoring

Follow the procedures described in Chapter 4 (Monitoring ) to monitor the VD assignments in Xcalibur Global.





## Chapter 2 Concepts

## Overview

Xcalibur Global enables Administrators to manage the assignment of Virtual Desktops to thin clients using Xcalibur VDI Broker functionality.

Xcalibur VDI Broker is a client-server system responsible for assigning Virtual Desktops to thin clients. The server side is embedded in Xcalibur Global Front End Server and the client side is installed on the thin client as a software add-on (named: VDI Broker Plug-in).

The following flowchart offers a general illustration of the Xcalibur VDI Broker functionality:



(5) Open RDP session to VD

#### Figure 2-1: Xcalibur VDI Broker Functionality Flowchart



## Definitions

This section introduces terms and definitions used throughout this document.

#### 1 Virtual Desktop

A Virtual Desktop (VD) refers to a computer OS (Operating System, i.e. Windows XP) running on hardware virtualization software such as VMware<sup>™</sup> Virtual Infrastructure or Microsoft<sup>™</sup> Virtual Server.

#### 2 VD Assignment

A VD Assignment refers to the assignment of a Virtual Desktop to a user or a thin client device.

#### 3 VDI Broker Plug-in

The VDI Broker Plug-in is a software add-on that enables a Chip PC thin client to receive a VD assignment from the Xcalibur VDI Broker and to open a remote desktop session to the assigned VD.

#### 4 Lease

A Lease is issued by the Xcalibur VDI Broker whenever a VD is assigned to a user/device. The lease includes the details of the VD and the details of the user/device to which the VD is assigned. A lease may remain valid indefinitely, may expire after a predefined time period, or may expire following a predefined event such as a device reboot.



## **Assignment Levels**

Assignment level represents the object-type to which a VD can be assigned to. The assignment of a VD to a thin client is possible on two assignment levels:

- User level A VD is assigned to a user.
- Device level A VD is assigned to a device.

Both assignment levels are examined when determining which VD will be assigned to a thin client. User level VD assignment takes priority over Device level VD assignment. If a VD assignment exists for the user that is currently logged-on to the thin client, then this will be the effective VD assignment for the thin client. The device level VD assignment will apply to the thin client only if the currently logged-on user does not have a VD assignment.

## **Assignment Methods**

An assignment method represents the way a VD is assigned to a user/device. The assignment of a VD is performed using one of the following methods:

- Manual An administrator manually assigns a specific VD to a specific user/device. In practice this is configured through the Directory Manager snap-in, on the specific user/device's properties.
  - Prohibited A user/device is explicitly prohibited from obtaining a VD. This is a special instance of the manual assignment method.
- Automatic Xcalibur VDI Broker mechanism dynamically assigns VDs to devices/users. In practice this is configured through the Farm Manager snap-in, on the Farm, Site and Scope levels. Higher level settings are inherited by the lower levels unless this option is disabled.

## **VD Source**

The VD Source is the repository from which VDs are taken when they need to be assigned to a device/user.

The assignment of a VD is performed using one of the following VD sources:

- Virtual Center The assigned VD is selected from a VMware<sup>™</sup> VirtualCenter.
- Active Directory The assigned VD is selected from the Active Directory.
  - Mixed –The assigned VD is selected from the Active Directory and its existence is verified by a VMware<sup>TM</sup> VirtualCenter. This is a special instance of the Active Directory source.



## Lease Type

A Lease determines how long a VD Assignment will be valid. The assignment of a VD is performed using one of the following lease types:

- Time Expiration The lease will expire after a designated period.
- Static The lease has an unlimited duration and it will never expire (it can only be deleted manually).
- Log Off / Reboot The lease will expire when the user logs off or when the device is rebooted. This lease type is only available when a VD is assigned to a user.

## **Expired Lease**

Whenever a thin client uses the VDI Broker plug-in to request a VD assignment, Xcalibur Global will search for an existing lease associated with the user that is currently logged-on to the thin client or with the thin client device. If a lease already exists, its status is examined to determine whether it is still valid.

- Valid Lease If the lease is valid, Xcalibur VDI Broker assigns the VD.
- Expired Lease If the lease expired, the outcome will depend on the assignment method (manual/automatic) by which the lease was created:
  - Automatic Assignment Xcalibur VDI Broker will issue a new lease if an available VD exists.
  - Manual Assignment Xcalibur VDI Broker will not issue a new lease, therefore a VD will not be assigned.

**IMPORTANT** An RDP session that was launched when the VD lease was valid will remain active even after the VD lease has expired.

### **Process Outline**

This section explains the VD assignment process as it is performed by the Xcalibur VDI Broker on the client side and on the server side.

#### 5 Client Side Process Outline

- 1. The user clicks on the VDI icon on the thin client's desktop
- 2. The VDI Broker Plug-in requests a VD assignment from the Xcalibur VDI Broker.
- 3. The Xcalibur VDI Broker assigns a VD to the thin client.
- 4. The VDI Broker Plug-in launches a remote desktop session to the assigned VD.



#### 6 Server Side Process Outline

When receiving a VD assignment request from a thin client, the Xcalibur VDI Broker performs the following assignment process:

#### 6.1 Step 1: Determine the Assignment Level (User/Device)

In this step, the Xcalibur VDI Broker determines the assignment level that applies to the thin client. The following flowchart illustrates the procedure:



Figure 2-2: Xcalibur VDI Broker Assignment Process Flowchart – Step 1

- User Level If the currently logged-on user has a VD assignment, then this assignment is applied to the thin client.
- Device level If the currently logged-on user does not have a VD assignment, and if the thin client's device has a VD assignment, then this assignment is applied to the thin client.

If a VD is assigned to either a user or a device, the assignment process continues to Step 2 (detailed in the next page).

If a VD is not assigned to a user or to a device, the assignment process ends and an indication message is displayed on the thin client's screen.



#### 6.2 Step 2: Examine the Assignment Method and Lease Status

This step is identical for both types of assignment level (user/device). The Xcalibur VDI Broker first examines the assignment method and then the lease status (when relevant). The following flowchart illustrates the procedure:



Figure 2-3: Xcalibur VDI Broker Assignment Process Flowchart – Step 2

- If the assignment method is Prohibited, a VD is not assigned.
- If the assignment method is Manual, the Xcalibur VDI Broker checks if the lease has expired.
  - If the lease has not expired, a VD is assigned based on the lease.
  - If the lease has expired, a VD is not assigned.
- If the assignment method is Automatic, Xcalibur VDI Broker checks if a lease exists.
  - If a lease exists and it has not expired, a VD is assigned based on the lease.
  - If a lease does not exist or if a lease exists but it has expired, Xcalibur VDI Broker checks if there is an available VD in the VD source.
    - If a VD is available, a new lease is issued and the VD is assigned.
    - If a VD is not available, a VD is not assigned.

The Xcalibur VDI Broker returns the result of this step to the thin client thus completing the assignment process.



## Chapter 3 Planning & Implementing VD Assignment

## Planning

Prior to configuring the VDI Broker's settings, a number of planning decisions are required:

#### 1 Assignment Method

What method is to be used?

- Manual
- Automatic

#### 2 Assignment Level

What object will the VD's be assigned to?

- User
- Device

#### 3 VD Source

What will be the source of the assigned VD's?

- VMware<sup>™</sup> VirtualCenter
- Active Directory

#### 4 Lease Type

What type of leases should be issued?

- Time Limited
- Unlimited
- Expire on log-off/reboot





## Implementing

1 Step 1: Install the VDI Broker Plug-in onto the Thin Clients

Refer to the appendix titled "How to Install the VDI Broker Plug-in onto TCs".

## 2 Step 2: Configure The VDI Broker settings in Xcalibur Global

Based on the decisions made in the **Planning** section, select one of the following scenarios and refer to the specified page for implementation instructions.

- To Manually assign a VD from a VMware Virtual Center to a Device, page 14.
- To Manually assign a VD from a VMware Virtual Center to a User, page 24.
- To Manually assign a VD from the Active Directory to a Device, page 35.
- To **Manually** assign a VD from the **Active Directory** to a **User**, page 42.
- To Automatically assign a VD from a VMware Virtual Center to a Device, page 49
- To Automatically assign a VD from a VMware Virtual Center to a User, page 63
- To Automatically assign a VD from the Active Directory to a Device, page 77
- To Automatically assign a VD from the Active Directory to a User, page 86
- 3 Step 3: Launch a Virtual Desktop Session from the Thin Client

Refer to the Appendix titled "How to Launch a Virtual Desktop Session from the Thin Client".



## Configuring the VDI Broker Settings in Xcalibur Global

1 Manually Assigning a VD from a VMware Virtual Center to a Device

#### 1.1 Active Directory Permissions

In order to perform VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Active Directory:

- The Read, Read gPLink, Write gPLink, Read gPOtions and Write gPOtions permissions are required on the parent OU containing the device to which the VD will be assigned.
- The user must be a member of the group "Group Policy Creator Owners".

#### 1.2 Xcalibur Farm Manager Permissions

In order to configure VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Xcalibur Farm Manager:

The Read Site Data and the Write Site Data permissions are required on the Administrative Suite.

#### **1.3 VMware Virtual Center Permissions**

In order to perform VD assignments from the Virtual Center, a user must be created on the Virtual Center for the use of the Xcalibur VDI Broker. The user must be assigned the following permissions:

- Required Read permission on the Virtual Center path to the VD.
- Optional Additional permission to perform management tasks on the VD such as Shutdown, Restart Etc.

**NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.



#### 1.4 Xcalibur Global Virtual Center Settings

The Farm Manager Virtual Center Settings are configured using the following procedure:

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, open Xcalibur Farm Manager / Administrative Suite and select Virtual Center.



Figure 3-1: Xcalibur Management Console - Select Virtual Center - Menu

3. Right-click **Virtual Center**, on the menu click **Properties** to open the **Virtual Center** dialog box.



- **NOTE** The Virtual Center dialog box is composed of two tabs each containing a separate set of parameters used to connect to the Virtual Center. This separation offers increased security by assigning different credentials to the different Xcalibur Global components.
  - 4. The **Front End Server VDI Credentials** tab contains the parameters used by the Xcalibur Global service to connect to the Virtual Center. The user selected will determine the permissions granted to the Xcalibur Global service when it interacts with the Virtual Center.
    - 4.1. In the Virtual Center Server text box, type the server's URL.
    - 4.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
    - 4.3. In the **Password** text box, type the user's password.
    - 4.4. Uncheck the **Connect to Virtual Center** check box.
    - 4.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Example: http(s)://SERVER_LIBL/s
'irtual Center <u>S</u> erve	r: https://192.168.8.35/sdk
<u>I</u> ser:	administrator
assword:	•••••
	Connect to Virtual Center

Figure 3-2: Virtual Center Dialog Box – Front End Server VDI Credentials Tab



- 5. The **MMC VDI Credentials** tab contains the parameters used by the Xcalibur Global Management Console to connect to the Virtual Center. The user selected will determine the Xcalibur Global Management Console's permissions when it interacts with the Virtual Center. In addition to the permission to retrieve information about VDs, this could also include permissions to: Start, Shutdown, Reboot, and Suspend VDs.
  - 5.1. In the Virtual Center Server text box, type the server's URL.
  - 5.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
  - 5.3. In the **Password** text box, type the user's password.
  - 5.4. Uncheck the **Connect to Virtual Center** check box.
  - 5.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Example: http(s)://SERVER_URL/sdk
√irtual Center <u>S</u> erver:	https://192.168.8.35/sdk
<u>J</u> ser:	administrator
eassword:	•••••
	Connect to Virtual Center

Figure 3-3: Virtual Center Dialog Box – MMC VDI Credentials Tab

6. Click **OK** to finish this procedure and return to Xcalibur Global Management Console.

**IMPORTANT** The Xcalibur Global Service must be restarted for the new Virtual Center settings to take effect.



#### 1.5 Xcalibur Global Device Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, expand the tree under Xcalibur Directory Manager to reveal the OU that contains the target device. In this example expand: net8.qa8 \ Chip PC \ Thin Clients \ Berlin.



Figure 3-4: Xcalibur Management Console - Select Target OU



- 3. Right-click on the target device (**KR\_000535018719** in this example) to display a menu.
- 4. On the menu, click **Properties** to display the *<Device>* Properties dialog box.

📸 Xcalibur - [Console Root\Xcalibur Directory	Manager\net8.qa8\Chip	PC\Thin Clients\f	Berlin] 💶 🗵 🗙
📸 File Action View Favorites Window H	elp		<u>_8×</u>
	0 2 🛍 足 🐯 8	2 🕹 🗟 💐 😂	
Console Root Xcalibur Directory Manager Reflection PC Grant Chip PC Grant Chi	Name Alice Bob Carol David Eve KR_000535018719 KR_000535018718 KR_000535018728 KR_000535018735	Type         User         User         User         User         This Cleast         Move         Show Resulting Po         Yiew Current Devic         Show Policy Link Er         Time Limited Overr         Thin Client Linked J         Thin Client Events         VDI Usage         Sessions Info         Cut         Delete         Ptoperties         Help	licy re Settings vents iding Policy Info
Opens the properties dialog box for the current selection	on.		

Figure 3-5: Xcalibur Management Console – Device - Menu

5. In the *<Device>* Properties dialog box, select the Assigned VDI Desktop tab.

_000535018719 Pr	operties	?
Advanced   General   M	Xcalibur Policy   Assign 1anaged By   Hardware	ned VDI Desktop
View o	general device details	
Device Name:	KR_000535018719	
Device Description:		Ţ
Туре:	Thin Client	
Unique ID:	{CD82FFD7-BE9F-4D14-A563-0	000535018719}
Site Name:	Europe	
Scope Name:	192.168.8.151 - 192.168.8.170	5
	OK Cance	l <u>A</u> pply

Figure 3-6: < Device> Properties Dialog Box – Assigned VDI Desktop Tab

Chapter 3 - Planning & Implementing VD Assignment



6. In the Assigned By drop down list box select Manual.

R_000535018	/19 Properties	? >
General Advanced	Managed By Hardware Xcalibur Policy Assigned	Software VDI Desktop
Assi	ned Virtual Desktop Information	
Assigned By	Manual	•
VDI Desktop DNS Name	Information Manual Prohibited	
Virtual Mad	hine Name	
Farm/Host	Name	
VirtualCe	nter Browse AD VM	Info
- VDI Desktop	Lease Information	i
Expiration	Unlimited	
Туре	Static Follow Me Non	e 💽
Duration	30 🚔 days 🛛 🚈 hours	
	OK Cancel	Apply

Figure 3-7: *<Device>* Properties Dialog Box – Assigned VDI Desktop Tab – Manual

7. Click VirtualCenter...to open the Browse for Virtual Desktop Objects... dialog box.

General	Managed By	Hardware	Software
Advanced	Xcalibur Policy	/ Assign	ed VDI Desktop
🦻 Assigr	ed Virtual Desktop Inl	formation	
ssigned By	Manual		
VDI Desktop Ir	formation		
DNS Name			
Virtual Machi	ne Name		
Farm/Host N	ame		
VirtualCent	erBrowse	AD	VM Info,
VDI Desktop Le	ease Information		
Expiration 1	Jnlimited		
Туре	itatic	Follow Me	lone 💌
Duration	0 🗄 days 🛛	hours	
		2.9253	

Figure 3-8: Assigned VDI Desktop Tab – Manual – Virtual Center



- 8. In the Browse for Virtual Desktop Objects... dialog box, perform the following:
  - 8.1. In the **Browse by** drop down list box, select a display format for the Virtual Center.

Browse by	Hosts and clusters	•	Refresh
E 🧔 Ho	Hosts and clusters Virtual machines and templates Networks Datastores		

Figure 3-9: Browse for Virtual Desktop Objects... Dialog Box

8.2. Browse and select the desired VD (XPNET8-6 in this example).



Figure 3-10: Browse for Virtual Desktop Objects... Dialog Box

8.3. Click **OK** to complete the VD selection and to return to the *device* **Properties** dialog box.



- 9. In the VDI Desktop Lease Information section, perform the following:
  - 9.1. From the **Type** drop down list box, select one of the following lease types:
    - Static for an unlimited lease duration (never expires).
    - Time Expiration for a time limited lease that will expire after a preset duration.

General   Ma	naged By   Hardware   Software
Advanced	Xcalibur Policy Assigned VDI Desktop
Assigned Virti	ual Desktop Information
Assigned By	Manual
VDI Desktop Informat	ion
DNS Name	XPNET8-6.net8.qa8
Virtual Machine Nan	ne XPNET8-6
Farm/Host Name	/192.168.8.55
VirtualCenter	Browse AD VM Info
- VDI Desktop Lease In	formation
Expiration Unlimite	d
Type Static	Follow Me None
Static	
Duration Line Ex	Diration

Figure 3-11: Assigned VDI Desktop Tab – Manual – Virtual Center – Lease Type



9.2. If a **Time Expiration** lease type is selected, enter the lease **Duration**. The lease expiration date and time appears in the **Expiration** field.

R_000535018719 Prope	rties		? >
General   Manar Advanced   Xo	ged By   Har :alibur Policy Desktop Informatio	dware   Assigned VD n	Software I Desktop
Assigned By	Manual		
VDI Desktop Information	ı		F
DNS Name	XPNET8-6.net8.c	ja8	
Virtual Machine Name	XPNET8-6		
Farm/Host Name	/192.168.8.55		
VirtualCenter	Browse AD	VM In	fo
→ VDI Desktop Lease Infor	mation		ii
Expiration 7/31/2007	4:17:32 PM		
Type Time Expire	ation 🗾 Fol	ow Me None	Ī
Duration 14	days 5 📑 H	iours	
	ОК	Cancel	Apply

Figure 3-12: Assigned VDI Desktop Tab – Manual – Virtual Center – Lease Duration

10. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# 2 Manually Assigning a VD from a VMware Virtual Center to a User

**IMPORTANT** Domain User Authentication must be activated on the scope containing the device receiving a VD assignment.

In Scope Properties \ Authentication Properties tab \ User Authentication Provider, verify that the Active provider is "Domain User Authentication Provider".

#### 2.1 Active Directory Permissions

In order to perform VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Active Directory:

- The Read, Read gPLink, Write gPLink, Read gPOtions and Write gPOtions permissions are required on the parent OU containing the user to which the VD will be assigned.
- The user must be a member of the group "Group Policy Creator Owners".

#### 2.2 Xcalibur Farm Manager Permissions

In order to configure VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Xcalibur Farm Manager:

The Read Site Data and the Write Site Data permissions are required on the Administrative Suite.

#### 2.3 VMware Virtual Center Permissions

In order to perform VD assignments from the Virtual Center, a user must be created on the Virtual Center for the use of the Xcalibur VDI Broker. The user must be assigned the following permissions:

- Required Read permission on the Virtual Center path to the VD.
- Optional Additional permission to perform management tasks on the VD such as Shutdown, Restart, etc.

**NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.



#### 2.4 Xcalibur Global Virtual Center Settings

The Farm Manager Virtual Center Settings are configured using the following procedure:

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, open Xcalibur Farm Manager / Administrative Suite and select Virtual Center.



Figure 3-13: Xcalibur Management Console - Select Virtual Center

3. Right-click **Virtual Center**, on the menu click **Properties** to open the **Virtual Center** dialog box.



- **NOTE** The Virtual Center dialog box is composed of two tabs each containing a separate set of parameters used to connect to the Virtual Center. This separation offers increased security by assigning different credentials to different Xcalibur Global components.
  - 4. The **Front End Server VDI Credentials** tab contains the parameters used by the Xcalibur Global service to connect to the Virtual Center. The user selected will determine the permissions granted to the Xcalibur Global service when it interacts with the Virtual Center.
    - 4.1. In the Virtual Center Server text box, type the server's URL.
    - 4.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
    - 4.3. In the **Password** text box, type the user's password.
    - 4.4. Uncheck the **Connect to Virtual Center** check box.
    - 4.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Example: http(s)://SERVER_LIBL/s
'irtual Center <u>S</u> erve	r: https://192.168.8.35/sdk
<u>I</u> ser:	administrator
assword:	•••••
	Connect to Virtual Center

Figure 3-14: Virtual Center Dialog Box – Front End Server VDI Credentials Tab



- 5. The **MMC VDI Credentials** tab contains the parameters used by the Xcalibur Global Management Console to connect to the Virtual Center. The user selected will determine the Xcalibur Global Management Console's permissions when it interacts with the Virtual Center. In addition to the permission to retrieve information about VDs, this could also include permissions to: Start, Shutdown, Reboot, and Suspend VDs.
  - 5.1. In the Virtual Center Server text box, type the server's URL.
  - 5.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
  - 5.3. In the **Password** text box, type the user's password.
  - 5.4. Uncheck the **Connect to Virtual Center** check box.
  - 5.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Evample: http:///SEDVED_1101/cdk
'irtual Center <u>S</u> erver:	https://192.168.8.35/sdk
<u>J</u> ser:	administrator
assword:	•••••
	Connect to Virtual Center

Figure 3-15: Virtual Center Dialog Box – MMC VDI Credentials Tab

6. Click **OK** to finish this procedure and return to Xcalibur Global Management Console.

**IMPORTANT** The Xcalibur Global Service must be restarted for the new Virtual Center settings to take effect.



#### 2.5 Xcalibur Global User Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, expand the tree under **Xcalibur Directory Manager** to reveal the OU that contains the target user. In this example expand: **net8.qa8** \ **Chip PC** \ **Thin Clients** \ **Berlin**.



Figure 3-16: Xcalibur Management Console - Select Target OU



- 3. Right-click on the target user (Alice in this example) to display a menu.
- 4. On the menu, click **Properties** to display the *<User>* **Properties** dialog box.

Bie Action View Favorites Window ! ← → 1 10 100 100 100 100 100 100 100 100	<u>t</u> elp 1 🗊 🕹 😂		<u>_8×</u>
Console Root Console Root Co	Name / Alice Bob Carol David Eve KR_000535018719 KR_000535018719 KR_000535018718 KR_000535018728 KR_000535018735	Type User User Show F Show F User User User Thin ( Proper Thin ( <u>H</u> elp Thin Client Thin Client	Description Resulting Policy Policy Link Events age hs Info ties

Figure 3-17: Xcalibur Management Console

5. In the *<User>* Properties dialog box, select the Assigned VDI Desktop tab.

ce Properties	?
Environment Profile	Sessions Assigned VDI Desktop Security Terminal Services Profile Rendste control
General   Alice	Member of Account Xcalibur Policy
Eirst name:	Alice Initials:
Last name:	
Di <u>s</u> play name:	Alice
Description:	
Offi <u>c</u> e:	
<u>I</u> elephone numb	er Diher
E- <u>m</u> ail:	
<u>W</u> eb page:	Other

Figure 3-18: *<User> Properties* Dialog Box – Assigned VDI Desktop Tab



6. In the Assigned By drop down list box select Manual.

e Properties			-	1
Profile	Terminal S	Services Profile	Remo	te control
General	Member of	Account	Xcal	ibur Policy
Environment	Sessions	Assigned VDI	Desktop	Security
Assign	ned Virtual Des	ktop Information anual		
VDI Desktop I DNS	nformation - M Pr	utomatic anual ohibited		ht
Virtual Mach Farm/Host N	ine Name 🛛			
VirtualCen	ter	Browse AD	VM In	fo
- VDI Desktop L	.ease Informati	on		
Expiration	Inlimited			
- E	. 72			
Type [	Static	Follow	Me None	×
Duration	i0 📑 day:	s 🛛 🚊 hour	s	

Figure 3-19: *<User>* Properties Dialog Box – Assigned VDI Desktop Tab – Manual

7. Click VirtualCenter...to open the Browse for Virtual Desktop Objects... dialog box.

General       Member of       Account       Xcalibur Pol         Profile       Terminal Services Ptofile       Remote contr         Environment       Sessions       Assigned VDI Desktop       Sec         Image: Second Se	erties		?
Profile       Terminal Services Profile       Remote contr         Environment       Sessions       Assigned VDI Desktop       Sec         Image: Session Second Session Sessi	ral Member of	Account	Xcalibur Policy
Environment Sessions Assigned VDI Desktop Sec Assigned Virtual Desktop Information Assigned By Manual VDI Desktop Information DNS Virtual Machine Name Farm/Host Name VirtualCenter VDI Desktop Lease Information Environment	e Terminal Service	s Profile	Remote control
Assigned Virtual Desktop Information Assigned By VDI Desktop Information DNS Virtual Machine Name Farm/Host Name VirtualCenter Browse AD VM Info VVDI Desktop Lease Information Exclusion Utelimited	iment Sessions A	Assigned VDI Des	ktop Security
Assigned By Manual VDI Desktop Information DNS Virtual Machine Name Farm/Host Name VirtualCenter Browse AD VM Info VDI Desktop Lease Information Excitation	Assigned Virtual Desktop In	formation	
VDI Desktop Information DNS Virtual Machine Name Farm/Host Name VirtualCenter VirtualCenter VM Info VDI Desktop Lease Information Excitation Utelimited	d By Manual		
DNS Virtual Machine Name Farm/Host Name VirtualCenter VirtualCenter VM Info  TVDI Desktop Lease Information Exclusion Uplimited	esktop Information		
Virtual Machine Name Farm/Host Name VirtualCenter VirtualCenter VM Info VDI Desktop Lease Information Excitation Uplimited	3		
Farm/Host Name VirtualCenter VM Info VM Info VDI Desktop Lease Information Excitation Unlimited	ual Machine Name		
VirtualCenter Browse AD VM Info	n/Host Name		Ī
VDI Desktop Lease Information	rtualCenter	e AD	VM Info
Everyteen Uplimited	esktop Lease Information		
Expiration Journmood	ation Unlimited		
Type Static 💌 Follow Me None 💌	Static	Follow Me	None
Duration 20 💼 days 🛛 🚊 hours	ion 30 😤 days 🛛	+ hours	
		Canc	el Anniv

Figure 3-20: Assigned VDI Desktop Tab – Manual – Virtual Center



- 8. In the Browse for Virtual Desktop Objects... dialog box, perform the following:
  - 8.1. In the **Browse by** drop down list box, select a display format for the Virtual Center.

rowse for <b>\</b>	/irtual Desktop Objects	2
Browse by	Hosts and clusters	▼ Refresh
⊡ 🧔 Ho ⊕-⊕- ⊕-∰	Hosts and clusters Virtual machines and templates Networks Datastores	2
		1

Figure 3-21: Browse for Virtual Desktop Objects... Dialog Box – Browse by



8.2. Browse and select the desired VD (XPNET8-2 in this example).



Figure 3-22: Browse for Virtual Desktop Objects... Dialog Box - Select VD

8.3. Click **OK** to complete the VD selection and to return to the *<User>* **Properties** dialog box.



Profile Tern	ninal Services Profile 🕴 Remote control
General Memb	per of Account Xcalibur Policy
Environment   Sess	ions Assigned VDI Desktop Securit
	· · · · · · ·
Assigned Virtua	Il Desktop Information
ssigned By	Manual
VDI Deskton Informatio	
DNC	
UND	IN ME TO ONEO. GOD
Virtual Machine Name	XPNET8-6
Farm/Host Name	/192.168.8.55
VirtualCenter	Browse AD VM Info
VDI Desktop Lease Info	ormation
Expiration User Log	Off / Device Restart
-	
Type Log Off /	Heboot T Follow Me None T
Duration	nation
Log Ult 7	Heboot V

Figure 3-23: Assigned VDI Desktop Tab – Manual – Virtual Center – Lease Type

- 9. In the VDI Desktop Lease Information section, perform the following:
  - 9.1. From the **Type** drop down list box, select one of the following lease types:
    - Static for an unlimited lease duration (never expires).
    - Time Expiration for a time limited lease that will expire after a preset duration.
    - Log Off / Reboot for temporary lease that will expire when the user logs off or when the device is rebooted.



9.2. If a **Time Expiration** lease type is selected, enter the lease **Duration**. The lease expiration date and time appears in the **Expiration** field.

Properties	?
Profile   Termi General   Membe Environment   Sessic	nal Services Profile   Remote control erof   Account   Xcalibur Policy ns Assigned VDI Desktop   Security
Assigned Viitual	Desktop Information
Assigned By	Manual
VDI Desktop Information	
DNS	XPNET8-6.net8.qa8
Virtual Machine Name	XPNET8-6
Farm/Host Name	/192.168.8.55
VirtualCenter	Browse AD VM Info
VDI Desktop Lease Infor	mation
Expiration 7/31/2007	4:34:22 PM
Type Time Expire	ation 💌 Follow Me None 💌
Duration 14 🔹	days 5 1 🕂 hours
	12 223 W

Figure 3-24: Assigned VDI Desktop Tab – Manual – Virtual Center – Lease Duration

10. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# 3 Manually Assigning a VD from the Active Directory to a Device

#### 3.1 Active Directory Permissions

In order to perform VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Active Directory:

- The Read permission is required on the Active Directory path (Domain\OU...) to the VD that will be assigned.
- The Read, Read gPLink, Write gPLink, Read gPOtions and Write gPOtions permissions are required on the parent OU containing the device to which the VD will be assigned.
- The user must be a member of the group "Group Policy Creator Owners".
- **NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.



#### 3.2 Xcalibur Global Device Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, expand the tree under Xcalibur Directory Manager to reveal the OU that contains the target device. In this example expand: net8.qa8 \ Chip PC \ Thin Clients \ Berlin.



Figure 3-25: Xcalibur Management Console - Select Target OU


- 3. Right-click on the target device (**KR\_000535018719** in this example) to display a menu.
- 4. On the menu, click **Properties** to display the *Device* **Properties** dialog box.

🐂 Xcalibur - [Console Root\Xcalibur Directory N	Manager\net8.qa8\Chip	PC\Thin Clients\I	Berlin] 💶 🗖 🗙
📸 File Action View Favorites Window He	əlp		X
	01020	2 😣 🗟 🕹 😂	
Console Root Xcalibur Directory Manager net8.qa8 Chip PC Grant Thin Clients Grant Computers Computers Computers ForeignSecurityPrincipals ForeignSecurityPrincipals Grant Calibur Global All thin clients Xcalibur Farm Manager	Name ▲ Alice Bob Carol David ▲ Eve ■ KR_000535018719 ■ KR_000535018718 ■ KR_000535018728 ■ KR_000535018735	Type User User User User User This Client Move Show Resulting Po Yiew Current Devi Show Policy Link E Time Limited Over Thin Client Linked Thin Client Events VDI Usage Sessions Info Cut Delete Properties	Description
Opens the properties dialog box for the current selection	n.		

Figure 3-26: Xcalibur Management Console – Device – Menu

5. In the *<Device>* Properties dialog box, select the Assigned VDI Desktop tab.

_000535018719 Pi	operties	?
Advanced	Xcalibur Policy Assig	ned VDI Desktop
General	Managed By Hardware	Software K
View	general device details	
Device Name:	KR_000535018719	
Device Description:	ſ	1
Туре:	Thin Client	
Unique ID:	{CD82FFD7-BE9F-4D14-A563-	000535018719}
Site Name:	Europe	
Scope Name:	192.168.8.151 - 192.168.8.17	Ö
	OK Cance	el <u>Apply</u>

Figure 3-27: < Device> Properties Dialog Box – Assigned VDI Desktop Tab



6. In the Assigned By drop down list box select Manual.

R_000535018	719 Proper	ties		1	? >
General Advanced	Manag   Xca	ed By   alibur Policy Desktop Infor	Hardware Assig mation	Software Ined VDI Desktop	
Assigned By		Manual			3
VDI Desktop DNS Name	Information	Manual Prohibited	k		
Virtual Ma	chine Name				
VirtualCe	nter	I Browse Al	»] [	VM Info	-
VDI Desktop	Lease Inform	mation			ř
Expiration	Unlimited				
Туре	Static	•	Follow Me	None 💌	
Duration	30 <u>+</u>	days 0	hours		
		ОК	Canc	el Apply	ş

Figure 3-28: < Device> Properties Dialog Box – Assigned VDI Desktop Tab – Manual

7. Click Browse AD...to open the Select Computer dialog box.

Advanced     Xcalibur Policy     Assigned VDI Desktop       Assigned Virtual Desktop Information     signed By     Manual       /DI Desktop Information     DNS Name     Manual       /DI Desktop Information     DNS Name     Manual       /Virtual Machine Name     Manual     Manual       /Virtual Center     Browse AD     VM Info       /DI Desktop Lease Information     Expiration       Expiration     Unlimited       Type     Static     Total Advance       Duration     30     days     0	General ]	Managed By	Hardware	1 Software
Assigned Virtual Desktop Information  signed By  Manual  (DI Desktop Information  DNS Name  Virtual Machine Name  Farm/Host Name  VirtualCenter  Browse AD V/M Info  (DI Desktop Lease Information  Expiration  Unlimited  Type  Static  Follow Me None  Duration  Static  St	Advanced	Xcalibur Policy	7 Assign	ed VDI Desktop
signed By Manual /DI Desktop Information DNS Name Virtual Machine Name Farm/Host Name VirtualCenter Browse AD VM Info /DI Desktop Lease Information Expiration Unlimited Type Static T Follow Me None T Duration 30 days 0 hours	Assigne	d Virtual Desktop In:	formation	
/DI Desktop Information DNS Name Virtual Machine Name Farm/Host Name VirtualCenter Browse AD VM Info /DI Desktop Lease Information Expiration Unlimited Type Static Follow Me None Duration Duration 30 days 0 days 10 days	ssigned By	Manual		
DNS Name Virtual Machine Name Farm/Host Name VirtualCenter Browse AD VM Info /DI Desktop Lease Information Expiration Unlimited Type Static Follow Me None Duration 30 days 0 hours	VDI Desktop Inf	ormation		
Virtual Machine Name Farm/Host Name VirtualCenter Browse AD V/M Info //DI Desktop Lease Information Expiration Unlimited Type Static Follow Me None Duration 30 days 0 hours	DNS Name			
Farm/Host Name       VirtualCenter     Browse AD     VM Info       /DI Desktop Lease Information     Expiration     Unlimited       Type     Static     Image: Comparison of the state of	Virtual Machin	e Name		
Farm/Host Name       VirtualCenter       Browse AD       /DI Desktop Lease Information       Expiration       Unlimited       Type       Static       Duration       30       days       0       hours				
VirtualCenter Browse AD VM Info VDI Desktop Lease Information Expiration Unlimited Type Static Follow Me None Duration 30 days 0 hours	Farm/Host Na	me		
/DI Desktop Lease Information Expiration Unlimited Type Static To Follow Me None To Duration 30 days 0 hours	VirtualCente	r Browse	AD	VM Info,
Expiration Unlimited Type Static To Follow Me None  Duration 30  days 0  hours	UDI Deelstee Le	and and a		
Type Static Tollow Me None Tollow Me None Tollow Me None		nlimited		
Type Static. Tollow Me None Duration 30 days 0 hours	Expiration j =		-	
Duration 30 days 0 hours	Type St	atic	▼ Follow Me  ∧	lone 🗾
	Duration 3	days 0	hours	
I	8		2001	
OK Cancel Appl				

Figure 3-29: Assigned VDI Desktop Tab – Manual – Active Directory



8. In the Select Computer dialog box, enter the name of the desired VD.

Gelect Computer	? ×
Select this object type:	
Computer	<u>O</u> bject Types
From this location:	
net8.qa8	Locations
Enter the object name to select ( <u>example</u> XPNET8-6	<u>s</u> ) 
I Advanced	OK Cancel

Figure 3-30: Select Computer Dialog Box

- **NOTE** The computer must have a valid "DNS Name" attribute. See the Appendix titled "Creating VDI Broker Compatible Accounts via Script".
- 9. Click **Check Names** to verify that the VD name exists in the Active Directory.
- 10. Click **OK** to complete the VD selection and to return to the *Apevice* Properties dialog box.



000535018	19 Properties	?
General Advanced	Managed By Hardware Xcalibur Policy Assigned	Software VDI Desktop
🕗 Assi	ned Virtual Desktop Information	
Assigned By	Manual	
- VDI Desktop	Information	
DNS Name	XPNET8-6.net8.ga8	
Virtual Mac	hine Name	
Farm/Host	Name /	
VirtualCe	nter  Browse AD  W	1 Info
VDI Desktop	Lease Information	
Expiration	Unlimited	
Туре	Static 💽 Follow Me Nor	ie 👻
Duration	Static Time Expiration	
	OK Cancel	Apply

Figure 3-31: Assigned VDI Desktop Tab – Manual – Active Directory – Lease Type

- 11. In the VDI Desktop Lease Information section, perform the following:
  - 11.1. From the **Type** drop down list box, select one of the following lease types:
    - Static for an unlimited lease duration (never expires).
    - Time Expiration for a time limited lease that will expire after a preset duration.



11.2. If a **Time Expiration** lease type is selected, enter the lease **Duration**. The lease expiration date and time appears in the **Expiration** field.

(R_000535018719 Prop	erties ? 🗙
General   Man Advanced   Assigned Virtu	aged By Hardware Software Xcalibur Policy Assigned VDI Desktop Jual Desktop Information
Assigned By	Manual
VDI Desktop Informati DNS Name	on XPNET8-6.net8.qa8
Virtual Machine Nam	
VirtualCenter	Browse AD VM Info
VDI Desktop Lease Inf Expiration 7/24/200 Type Time Exp Duration 7 🚊	ormation D7 7:24:12 PM iration Tollow Me None Tollow Me Mone Tollow Me None Tol
	OK Cancel Apply

Figure 3-32: Assigned VDI Desktop Tab – Manual – Active Directory – Lease Duration

12. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# 4 Manually Assigning a VD from the Active Directory to a User

**IMPORTANT** Domain User Authentication must be activated on the scope containing the device receiving a VD assignment.

In Scope Properties \ Authentication Properties tab \ User Authentication Provider, verify that the Active provider is "Domain User Authentication Provider".

# 4.1 Active Directory Permissions

In order to perform VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Active Directory:

- The Read permission is required on the Active Directory path (Domain\OU...) to the VD that will be assigned.
- The Read, Read gPLink, Write gPLink, Read gPOtions and Write gPOtions permissions are required on the parent OU containing the user to which the VD will be assigned.
- The user must be a member of the group "Group Policy Creator Owners".
- **NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.



### 4.2 Xcalibur Global User Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, expand the tree under **Xcalibur Directory Manager** to reveal the OU that contains the target user. In this example expand: **net8.qa8** \ **Chip PC** \ **Thin Clients** \ **Berlin**.



Figure 3-33: Xcalibur Management Console - Select Target OU



- 3. Right-click on the target user (Alice in this example) to display a menu.
- 4. On the menu, click **Properties** to display the *<User>* **Properties** dialog box.

🏠 Eile Action ⊻ew Favorites ⊻indow ← →   🔁 📧   😭 🔂   😤 💷   😗 🦉	Help I 🔞 🕹 😂		
Console Root X Xcalibur Directory Manager net8.qa8 Grig Chip PC Grig Berlin Grig Berlin Grig Paris Computers Grig Domain Controllers Grig Domain Controllers Grig Domain Controllers Grig Domain Controllers Grig Domain Controllers Grig SecurityPrincipals Grig Xcalibur Global All thin clients Computers C	Name / Alice Bob Carol David Eve KR_000535018719 KR_000535018718 KR_00053501871E KR_000535018728 KR_000535018735	Type User User Shy User User Thin ( Thin ( <u>He</u> Thin Client Thin Client	Description ow Resulting Policy ow Policy Link Events I Usage ssions Info operties

Figure 3-34: Xcalibur Management Console

5. In the *<User>* Properties dialog box, select the Assigned VDI Desktop tab.

Environment	Sessions Ass	igned VDI Desktop	Security
Profile	Terminal Services F	Profile Reht	Ste control
General	Member of	Account   Xc	alibur Policy
Alice			
<u>F</u> irst name:	Alice	Initials:	
<u>L</u> ast name:	ſ		
Di <u>s</u> play name:	Alice		
Description:			
Offi <u>c</u> e:			
<u>I</u> elephone numbe	r.		<u>O</u> ther
E- <u>m</u> ail:	<b></b>		
<u>W</u> eb page:			Other
		Cancel	Apola

Figure 3-35: *<User> Properties* Dialog Box – Assigned VDI Desktop Tab



6. In the Assigned By drop down list box select Manual.

e Properties				1
Profile   General   Environment	Terminal Member of Sessions	Services Profile Accou Assigned \	Remo nt   Xca /DIDesktop	ote control Ilibur Policy Security
Assigned By	ned Virtual Des Marcon Marcon P	sktop Information fanual utomatic Janual		<u>-</u>
Virtual Mach Farm/Host N VirtualCen	ine Name     ame     ter	Browse AD	∫ VM h	
VDI Desktop I Expiration	ease Informat	ion		
Type	Static	Follo	ow Me None	~
Duration	N 📑 day	s∥ ∃h	ours	
	1.12	1000		

Figure 3-36: *<User>* Properties Dialog Box – Assigned VDI Desktop Tab – Manual

7. Click Browse AD...to open the Select Computer dialog box.

e Properties		?
Profile   General	Terminal Services Profile Member of Account	Remote control
Environment	Sessions Assigned VDI I	Desktop   Security
Assigned Bu	Manual	•
Assigned by	Judiade	1000
-VDI Desktop I	nformation	
DNS		
Virtual Mach	nine Name	
Farm/Host N	Jame	T
VirtualCen	ter Browse AD	VM Info
- VDI Desktop l	.ease Information	
Expiration [	Jnlimited	
Туре [	Static 📃 Follow M	de None 💌
Duration	30 🖾 days 🛛 🖃 hours	8
	10 556	927

Figure 3-37: Assigned VDI Desktop Tab – Manual – Active Directory



8. In the Select Computer dialog box, enter the name of the desired VD.

Gelect Computer	? ×
Select this object type:	
Computer	<u>O</u> bject Types
From this location:	
net8.qa8	Locations
Enter the object name to select ( <u>example</u> XPNET8-6	<u>s</u> ) 
I Advanced	OK Cancel

Figure 3-38: Select Computer Dialog Box

- **NOTE** The computer must have a valid "DNS Name" attribute. See the Appendix titled "Creating VDI Broker Compatible Accounts via Script".
- 9. Click **Check Names** to verify that the VD name exist in the Active Directory.
- 10. Click **OK** to complete the VD selection and to return to the *<User>* **Properties** dialog box.



e Properties	?
Profile   General   Environment	Terminal Services Profile         Remote control           Member of         Account         Xcalibur Policy           Sessions         Assigned VDI Desktop         Security
Assigne	d Virtual Desktop Information
-VDI Desktop Inf	
DNS	XPNET8-6.net8.ga8
Virtual Machin	e Name
Farm/Host Na	me /
VirtualCenter	r Browse AD VM Info
- VDI Desktop Le	ase Information
Expiration Un	limited
Type Sta	atic 💽 Follow Me None 💌
Duration Lo	ne Expiration hours



- 11. the VDI Desktop Lease Information section, perform the following:
  - 11.1. From the **Type** drop down list box, select one of the following lease types:
    - Static for an unlimited lease duration (never expires).
    - Time Expiration for a time limited lease that will expire after a preset duration.
    - Log Off / Reboot for temporary lease that will expire when the user logs off or when the device is rebooted.



11.2. If a **Time Expiration** lease type is selected, enter the lease **Duration**. The lease expiration date and time appears in the **Expiration** field.

e Properties	?
Profile   General   Environment	Terminal Services Profile   Remote control Member of   Account   Xcalibur Policy Sessions Assigned VDI Desktop   Security
Assigned By	Manual
- VDI Desktop Infi DNS Virtual Machin	xmation XPNET8-6.net8.ga8
Farm/Host Na	ne //
- VDI Desktop Le. Expiration 772 Type Tin Duration 7	se Information 4/2007 7:38:19 PM the Expiration Follow Me None S days 8 the hours
	NS Cancel Apply

Figure 3-40: Assigned VDI Desktop Tab – Manual – Active Directory – Lease Duration

12. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# 5 Automatically Assigning a VD from a VMware Virtual Center to a Device

### 5.1 Xcalibur Farm Manager Permissions

In order to configure automatic VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Xcalibur Farm Manager:

- The Read Site Data and the Write Site Data permissions are required on the Administrative Suite.
- The Read Site Data and the Write Site Data permissions are required on the site where the automatic assignment will be configured.

**NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.

### 5.2 VMware Virtual Center Permissions

In order to perform VD assignments from the Virtual Center, a user must be created on the Virtual Center for the use of the Xcalibur VDI Broker. The user must be assigned the following permissions:

- Required: Read permission on the Virtual Center path to the VD.
- Optional: Additional permission to perform management tasks on the VD such as Shutdown, Restart, etc.



# 5.3 Xcalibur Global Virtual Center Settings

The Farm Manager Virtual Center Settings are configured using the following procedure:

- 13. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 14. In the Xcalibur Management Console window, open Xcalibur Farm Manager / Administrative Suite and select Virtual Center.



Figure 3-41: Xcalibur Management Console - Select Virtual Center

15. Right-click **Virtual Center**, on the menu click **Properties** to open the **Virtual Center** dialog box.





- **NOTE** The Virtual Center dialog box is composed of two tabs each containing a separate set of parameters used to connect to the Virtual Center. This separation offers increased security by assigning different credentials to different Xcalibur Global components.
  - 16. The **Front End Server VDI Credentials** tab contains the parameters used by the Xcalibur Global service to connect to the Virtual Center. The user selected will determine the permissions granted to the Xcalibur Global service when it interacts with the Virtual Center.
    - 16.1. In the Virtual Center Server text box, type the server's URL.
    - 16.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
    - 16.3. In the **Password** text box, type the user's password.
    - 16.4. Uncheck the **Connect to Virtual Center** check box.
    - 16.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Example: http(s)://SERVER_URL/s
irtual Center <u>S</u> erv	er: https://192.168.8.35/sdk
lser:	administrator
assword:	•••••
	Connect to Virtual Center

Figure 3-42: Virtual Center Dialog Box – Front End Server VDI Credentials Tab



- 17. The **MMC VDI Credentials** tab contains the parameters used by the Xcalibur Global Management Console to connect to the Virtual Center. The user selected will determine the Xcalibur Global Management Console's permissions when it interacts with the Virtual Center. In addition to the permission to retrieve information about VDs, this could also include permissions to: Start, Shutdown, Reboot, and Suspend VDs.
  - 17.1. In the Virtual Center Server text box, type the server's URL.
  - 17.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
  - 17.3. In the **Password** text box, type the user's password.
  - 17.4. Uncheck the **Connect to Virtual Center** check box.
  - 17.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Example: http(s)://SERVER_URL/sdk
virtual Center <u>S</u> erve	r: https://192.168.8.35/sdk
Jser:	administrator
eassword:	•••••
	Connect to Virtual Center

Figure 3-43: Virtual Center Dialog Box – MMC VDI Credentials Tab

18. Click **OK** to finish this procedure and return to Xcalibur Global Management Console.

**IMPORTANT** The Xcalibur Global Service must be restarted for the new Virtual Center settings to take effect.



#### 5.4 Xcalibur Global Device Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.1 > Management Console** to launch the Xcalibur Global Management Console.
  - **NOTE** Automatic VD assignment can be configured on the Farm / Site / Scope level using the exact same procedure. In this document the procedure will be described on the scope level.
- In the Xcalibur Management Console window, expand the folders under Xcalibur Farm Manager to reveal the target scope. In this example expand: Sites \ Europe \ IP Scopes.



Figure 3-44: Xcalibur Management Console - Select Target Scope

3. Select the target scope (In this example Germany).



- 4. Right-click on the target scope (**Germany** in this example) to display a menu.
- 5. On the menu, click **Properties** to display the *Site Scope* dialog box.



Figure 3-45: Xcalibur Management Console – Target Scope > Properties



6. In the *Site Scope* dialog box, select the **Device** *VDI* tab.

rope \ German	y .	?
Hotfix Servic Protocol Setting: General Authe	e   Plugins Service   Client Discovery s   Notes   Policy Updater   Device VDI   User Intication Properties   Recovery service   UpgNade Se	/ VDI rvice
Name	Value	
Scope Id	5	
Scope GUID	{4A328BCE-7911-4A83-BC7B-D1B84667640A}	
Start IP Addr	192.168.8.131	
End IP Address	192.168.8.150	
Netmask	255.255.255.0	
Scope Name	Germany	
Site Name	Europe	
	Image:	
		8
	OK Cancel App	ly:

Figure 3-46: <Site \ Scope> Dialog Box

7. Uncheck the Inherit From Parent check box.

Hotfix Servi	ce	Plugins Ser	vice	Client Di	iscovery
Protocol Setting	gs   Notes	Policy U	pdater	Device VDI	User VDI
Assignment	VDI service o	offers conne	ctivity to	virtual servers	; Parent —
Туре:	Manual	<u></u>	Me";	None	Z
Assign Virtual Desktop from	Parent O	U			-
DNS Name Pattern	*		Lease Type:	Static	v
Power optic	ins		Lease	Duration	
Action	Don't Wake u	up 💌	Days:	0	<u>~</u>
Timeout (se	:): [	10 💌	Hours	; ]1	~
Operating System	<b>*</b>		W62.		Ivanced 1
Computer Account	<any></any>			-	

Figure 3-47: <Site \ Scope> Dialog Box - Device VDI Tab

Chapter 3 - Planning & Implementing VD Assignment



8. In the Assignment type drop down list box, select Automatic.

rope \ Germany	?
Hotfix Service   Plugins Serv Seneral   Authentication Properties   R Protocol Settings   Notes   Policy Up	vice Client Discovery ecovery service Upgrade Service odater Device VDI User VDI
Assignment Type: Autometic	Inherit From Parent     'Follow     Me"; None
Desktop from: Manual	
Pattern 7	Type: Static
Timeout (sec):	Hours: 1
Operating System Computer Account	Advanced
OK	Cancel Apply

Figure 3-48: <Site / IP Scope> Dialog Box – Device VDI Tab



9. In the Assign Virtual Desktop from drop down list box, select Virtual Center.

General   Au	thentication Properties	Recovery service U	pgrade Service
Protocol Setti	ngs 🗍 Notes 🗍 Policy (	Jpdater Device VD	I User VDI
<u> </u>			
لاق	VDI service offers conn	ectivity to virtual serv	ers
		🗌 🗌 Inherit Fra	om Parent —
Assignment	Automatic	Follow None	-
Assian Virtu	al	- Me . J.	
Desktop fro	m: Virtual Center		<u> </u>
	Parent OU		
	Virtual Center		
VM Name	*	Lease Static	-
Pattern		Type: 100000	
Power op	tions	Lease Duration	
Action	Don't Wake up 💌	Days: 0	×
Timeout (s	ec): 10 💌	Hours: 1	¥
			Based.
Guest	<any></any>		
OS	Landa		Advanced
CONTRACTOR OF	CADVO	-	
VM Chaba			

Figure 3-49: <Site / IP Scope> Dialog Box – Device VDI Tab



10. Click the Browse button to open the **Browse for Virtual Desktop Objects**... dialog box.

ope \ Germa	iny		?
Seneral   Auth Hotfix Serv Protocol Settin	nentication Properties   lice   Plugins Si gs   Notes   Policy	Recovery service   Upgrade Ser ervice   Client Discovery Updater Device VDI   User	vice VDI
Ø	VDI service offers con	nectivity to virtual servers	
Assignment Type:	Automatic	T "Follow None _	1
Assign Virtua Desktop fron	l Nirtual Center	J	-
VM Name Pattern	*	Lease Type: Static	
Power opti	ons	Lease Duration	
Timeout (se	rc): 10 💌	Hours: 1	
Guest OS	<any></any>		e 1
VM State	<any></any>	Advanced	

Figure 3-50: Device VDI Tab – Virtual Center Browse Button



- 11. In the Browse for Virtual Desktop Objects... dialog box, perform the following:
  - 11.1. In the **Browse by** drop down list box, select a display format for the Virtual Center.

owse for \	irtual Desktop Objects		
Browse by	Hosts and clusters	•	Refresh
E 🧔 Ho	Hosts and clusters Virtual machines and templates Networks		
	Datastores	- f	
	<u>17</u>	1	
		OK .	Cancel

Figure 3-51: Browse for Virtual Desktop Objects... Dialog Box



- 11.2. Browse Virtual Center and select the branch that contains the target VD's (Admin Desktops in this example).
  - **NOTE** When using automatic assignment the allocation of VDs is dynamic and therefore specific VD selection is disabled.

Browse by	Hosts and clusters		<ul> <li>Refresh</li> </ul>
	Admin Desktops Admin Desktops Admin Desktops Admin Desktops PORET8-4 PORET8-5 PORET8-6 PORET8-6 PORET8-7 AD Desktops PORET8-7 AD DESKtops PORET8-7		
		OK	Cancel

Figure 3-52: Browse for Virtual Desktop Objects... Dialog Box

11.3. Click **OK** to complete the branch selection and to return to the *Site Scope* dialog box.



Hothix Serv	rice Plugi	ns Service	Client Di	scovery
rotocol Settin	gs Notes P	olicy Updater	Device VDI	User VD
-				
	VDI service offers	connectivity to vi	rtual servers	
		——————————————————————————————————————	nherit From	Parent —
Assignment	Automatic	Follow	V Nope	-
Type: Assign Virtua		IVIE 7	Income	
Desktop from	N: Virtual Center			1
	Datacenters\QA8	192.168.8.55\Ad	lmin Desktop	s l
	Jeanson	1		
VM Name Pattern	*	Lease Type:	Static	-
Descention			Static	
- vower opr	la kuul	▼ Days:		w R
Action	Don't Wake up	2002/2007/2007/2007/2007/2007/2007/2007	100	- Annual -
Action	Don't Wake up	Hours	1	-
Action Timeout (se	jDon't Wake up c): 10	Hours:	1	<b>_</b>
Action Timeout (se	pont wake up	Hours:		Y
Action Timeout (se Guest OS	c): 10	Hours:	1 Ad	vanced

Figure 3-53: Assigned VDI Desktop Tab – Automatic – Virtual Center – Lease Type

- 12. From the Lease Type drop down list box, select one of the following lease types:
  - Static for an unlimited lease duration (never expires).
  - **Time Expiration** for a time limited lease that will expire after a preset duration.



13. If a **Time Expiration** lease type is selected, enter the **Days** and **Hours** in the **Lease Duration** section.

ope \ Germa	iny	?
Hotfix Serv eneral   Auth Protocol Settin	ice   Plugins Sei nentication Properties   F gs   Notes   Policy L	vice Client Discovery Recovery service Upgrade Service Ipdater Device VDI User VDI
	VDI service offers conn	ectivity to virtual servers
Type:	Automatic	∐ <sub>Me</sub> "; None <u> </u>
Assign Virtua Desktop fron	n; Virtual Center	
	Datacenters\QA8\192.	168.8.55\Admin Desktops
VM Name Pattern	*	Lease Time Expiration 💌
Power opti	ons	
Action	Don't Wake up 📃	Days: 7 🕏 💌
Timeout (se	c): 10 💌	Hours: 8
Guest OS	<any></any>	T Advaced
VM State	<any></any>	Mayanceu

Figure 3-54: Assigned VDI Desktop Tab – Automatic – Virtual Center – Lease Duration

14. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# 6 Automatically Assigning a VD from a VMware Virtual Center to a User

**IMPORTANT** Domain User Authentication must be activated on the scope containing the device receiving a VD assignment.

In Scope Properties \ Authentication Properties tab \ User Authentication Provider, verify that the Active provider is "Domain User Authentication Provider".

# 6.1 Xcalibur Farm Manager Permissions

In order to configure automatic VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Xcalibur Farm Manager:

- The Read Site Data and the Write Site Data permissions are required on the Administrative Suite.
- The Read Site Data and the Write Site Data permissions are required on the site where the automatic assignment will be configured.
- **NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.

#### 6.2 VMware Virtual Center Permissions

In order to perform VD assignments from the Virtual Center, a user must be created on the Virtual Center for the use of the Xcalibur VDI Broker. The user must be assigned the following permissions:

- Required: Read permission on the Virtual Center path to the VD.
- Optional: Additional permissions to perform management tasks on the VD such as Shutdown, Restart Etc.



# 6.3 Xcalibur Global Virtual Center Settings

The Farm Manager Virtual Center Settings are configured using the following procedure:

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, open Xcalibur Farm Manager / Administrative Suite and select Virtual Center.



Figure 3-55: Xcalibur Management Console - Select Virtual Center

3. Right-click **Virtual Center**, on the menu click **Properties** to open the **Virtual Center** dialog box.



- **NOTE** The Virtual Center dialog box is composed of two tabs each containing a separate set of parameters used to connect to the Virtual Center. This separation offers increased security by assigning different credentials to different Xcalibur Global components.
  - 4. The **Front End Server VDI Credentials** tab contains the parameters used by the Xcalibur Global service to connect to the Virtual Center. The user selected will determine the permissions granted to the Xcalibur Global service when it interacts with the Virtual Center.
    - 4.1. In the Virtual Center Server text box, type the server's URL.
    - 4.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
    - 4.3. In the **Password** text box, type the user's password.
    - 4.4. Uncheck the **Connect to Virtual Center** check box.
    - 4.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Example: http(s)://SERVER_LIBL/s
'irtual Center <u>S</u> erve	r: https://192.168.8.35/sdk
<u>I</u> ser:	administrator
eassword:	•••••
	Connect to Virtual Center

Figure 3-56: Virtual Center Dialog Box – Front End Server VDI Credentials Tab



- 5. The **MMC VDI Credentials** tab contains the parameters used by the Xcalibur Global Management Console to connect to the Virtual Center. The user selected will determine the Xcalibur Global Management Console's permissions when it interacts with the Virtual Center. In addition to the permission to retrieve information about VDs, this could also include permissions to start, shutdown, reboot, and suspend VDs.
  - 5.1. In the Virtual Center Server text box, type the server's URL.
  - 5.2. In the **User** text box, type the name of the Virtual Center user that was created in the previous section "VMware Virtual Center Permissions".
  - 5.3. In the **Password** text box, type the user's password.
  - 5.4. Uncheck the **Connect to Virtual Center** check box.
  - 5.5. Click **Test Connection** to verify that the parameters entered above are correct (if correct **Success** appears in box, if incorrect **Failure** appears in box).

	Server Example: http:///SEBVEB_LIBL/sdk
virtual Center <u>S</u> erver:	https://192.168.8.35/sdk
Jser:	administrator
eassword:	
	Connect to Virtual Center

Figure 3-57: Virtual Center Dialog Box – MMC VDI Credentials Tab

6. Click **OK** to finish this procedure and return to Xcalibur Global Management Console.

**IMPORTANT** The Xcalibur Global Service must be restarted for the new Virtual Center settings to take effect.



#### 6.4 Xcalibur Global User Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.1 > Management Console** to launch the Xcalibur Global Management Console.
  - **NOTE** Automatic VD assignment can be configured on the Farm / Site / Scope level using the exact same procedure. In this document the procedure will be described on the scope level.
- In the Xcalibur Management Console window, expand the folders under Xcalibur Farm Manager to reveal the target scope. In this example expand: Sites \ Europe \ IP Scopes.



Figure 3-58: Xcalibur Management Console - Select Target Scope

3. Select the target scope (In this example Germany).



- 4. Right-click on the target scope (**Germany** in this example) to display a menu.
- 5. On the menu, click **Properties** to display the *Site Scope* dialog box.



Figure 3-59: Xcalibur Management Console – Target OU > Properties



6. In the *Site* **Scope** dialog box, select the **User VDI** tab.

roper, dennan		
Hotfix Servic Protocol Setting General Authe	e   Plugins Service   Client Disco s   Notes   Policy Updater   Device VDI   Intication Properties   Recovery service   Upgrac	overy User VDI le Servici
Name	Value	
Scope Id	5	
Scope GUID	{4A328BCE-7911-4A83-BC7B-D1B84667640A}	
Start IP Addr	192,168.8.131	
End IP Address	192.168.8.150	
Netmask	255.255.255.0	
Scope Name	Germany	
Site Name	Europe	
		2
	OK Cancel	Apply

Figure 3-60: <Site \ Scope> Dialog Box

7. Uncheck the Inherit From Parent check box.

ope \ Germany				?
Hotfix Service Seneral DAutbent	Plugin:	s Service	Client D ervice   Unc	iscovery Irade Service
Protocol Settings	Notes   Poli	icy Updater	Device VDI	User VDI
<b>A</b>				
VC VC	I service offers c	onnectivity to v	/irtual server	5
			Inherit From	Parenti
Assignment Type:	Manual	→ "Fokk Me";	W None	-
Assign Virtual Deskton from:	Parent OU	and suders	Wi	T
	*			
I				
DNS Name *		Lease	Static	-
Power ontions		Lease	Duration	
Action De	n't Wake up	Days:	0	~
Timeout (sec):	10	Hours:	1	
Operating F		100		<u> </u>
System *			-	Ivanced
Computer Account	Any>			ay an record
	 [*	ок и	Cancel	Apply
	Le:	OE	1	

Figure 3-61: <Site \ Scope> Dialog Box - User VDI Tab



8. In the Assignment type drop down list box, select Automatic.

ope \ German <del>y</del>	?
Hotfix Service   Plugins Ser Seneral   Authentication Properties   R Protocol Settings   Notes   Policy U	vice Client Discovery Recovery service Upgrade Service pdater Device VDI User VDI
VDI service offers conne	activity to virtual servers
Assignment Type: Assign Virtual Desktop from: Manual	Me": None 💌
DNS Name *	Lease Static V
Power options       Action     Don't Wake up       Timeout (sec):     10	Lease Duration Days: 0 Hours: 1
Operating System * Computer Account <	Advanced
OK	Cancel Apply

Figure 3-62: <Site \ Scope> Dialog Box – VDI Tab



9. In the Assign Virtual Desktop from drop down list box, select Virtual Center.

Hotfix Service	Plugins Ser	vice	Client Di	scovery
General Authentication Pro	operties R	ecovery se	rvice   Upgr	ade Service
Protocol Settings   Notes	Policy U	odater	Device VDI	User VDI
0				
VDI service	offers conne	ctivity to vi	irtual servers	
			Inherit From I	Darent
2000 C			ginone rioni i	arone
Assignment Automat	ic 🖉	Me":	None	7
Assign Virtual		n 1.1870	<i>1</i> 11	
Desktop from: Parent C	)U			
Parent O				÷.
Virtual C	enter			
DNS Name *		Lease	Static	<b>T</b>
Pattern		Type:	Tocacie	
Power options		Lease [	Duration	
Action Don't Wake	up 💌	Days:	0	~
Timeout (sec):	10 -	Hours	1	*
				السند
Operating T*				
System 1				1
Computer Computer			- Au	vanceu.
Account [SALIY>			<u> </u>	

Figure 3-63: <Site \ Scope> Dialog Box – Device VDI Tab



10. Click the Browse button to open the **Browse for Virtual Desktop Objects**... dialog box.

rope \ German	y			?
Hotfix Service	e   Plug	jins Service	Client D	iscovery
General 🛛 Authei	ntication Propert	ies Recovery	service Upg	rade Service
Protocol Settings	Notes F	Policy Updater	Device VDI	User VDI
	/DI service offer	s connectivity to	virtual server	s Parent —
Assignment Type:	Automatic	Fo Me	None	7
Assign Virtual			16 M	
Desktop from:	wirtual Center			
Г				
1				
VM Name p	*	Leas	e Consta	- 13
Pattern		Туре	a locatic	<u> </u>
Power option	s	Leas	e Duration	1
Action	Don't Wake up	Days	: 0	*
Time and ( )				
rimeout (sec)	10	Hour	s: ] 1	<u> </u>
		1000		8
OS	<any></any>			
UM			Åg	ivanced
State	<any></any>			
			and I	Sec.

Figure 3-64: Device VDI Tab – Virtual Center Browse Button


- 11. In the Browse for Virtual Desktop Objects... dialog box, perform the following:
  - 11.1. In the **Browse by** drop down list box, select a display format for the Virtual Center.

owse for \	irtual Desktop Objects		
Browse by	Hosts and clusters	•	Refresh
E 🧔 Ho	Hosts and clusters Virtual machines and templates Networks		
	Datastores	- f	
		1	
		OK .	Cancel

Figure 3-65: Browse for Virtual Desktop Objects... Dialog Box



- 11.2. Browse the Virtual Center and select the branch that contains the target VD's (Admin Desktops in this example).
  - **NOTE** When using automatic assignment the allocation of VDs is dynamic and therefore specific VD selection is disabled.

Browse by Hosts and clusters    Refr Hosts and clusters  Refr Refr Refr Refr Refr Refr Refr Ref	
<ul> <li>Image: Provide the second state of the second state</li></ul>	esh
Sales Desktops     XPNET8-7     XPNET8-8	

Figure 3-66: Browse for Virtual Desktop Objects... Dialog Box – OK Unavailable

11.3. Click **OK** to complete the branch selection and to return to the *Site Scope* dialog box.



er Device VDI User VD ty to virtual servers Inherit From Parent Me": None I S.55\Admin Desktops
ty to virtual servers Inherit From Parent "Follow Me": None  3.55\Admin Desktops
ty to virtual servers Inherit From Parent ''Follow Me'': None
Inherit From Parent "Follow None Me": 3.55\Admin Desktops
"Follow Me": None
Me": None Z
3.55\Admin Desktops
3.55\Admin Desktops
ease Static 🔹
Static
ease Di Time Expiration
)ays: Log Ofr / Reboot A
lours: 1
21
<b></b>
Advanced
.ease )ays: Hours:

Figure 3-67: Assigned VDI Desktop Tab – Automatic – Virtual Center – Lease Type

- 12. From the Lease Type drop down list box, select one of the following lease types:
  - Static for an unlimited lease duration (never expires).
  - **Time Expiration** for a time limited lease that will expire after a preset duration.
  - Log Off / Reboot for temporary lease that will expire when the user logs off or when the device is rebooted.



If a **Time Expiration** lease type is selected, enter the **Days** and **Hours** in the **Lease Duration** section.

ope \ Germa	ny		?
Hotfix Servi Seneral   Auth Protocol Setting	ce   Plugins Ser entication Properties   R gs   Notes   Policy Uj	vice Client Di ecovery service Upgr odater Device VDI	scovery ade Service User VDI
	VDI service offers conne	ctivity to virtual servers	Parent —
Type: Assign Virtual	Automatic <u>*</u>	Me", None	
VM Name Pattern	Datacenters\QA8\192.1	68.8.55\Admin Desktop Lease Type: Time Expira	s
Power optic	Ins	Lease Duration	]
Action	Don't Wake up 🔄	Days: 30 12	
Timeout (see	:): 10 💌	Hours: 16	<b>_</b>
Guest OS	<any></any>		vanced 1
VM State	<any></any>	×	- Contractor
	ок	Cancel	Apply

Figure 3-68: Assigned VDI Desktop Tab – Automatic – Virtual Center – Lease Duration

13. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# 7 Automatically Assigning a VD from the Active Directory to a Device

### 7.1 Active Directory Permissions

In order to perform VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Active Directory:

The Read permission is required on the parent OU containing the VDs that will be assigned.

### 7.2 Xcalibur Farm Manager Permissions

In order to configure automatic VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Xcalibur Farm Manager:

- The Read Site Data and the Write Site Data permissions are required on the site where the automatic assignment will be configured.
- **NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.



### 7.3 Xcalibur Global Device Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.1 > Management Console** to launch the Xcalibur Global Management Console.
  - **NOTE** Automatic VD assignment can be configured on the Farm / Site / Scope level using the exact same procedure. In this document the procedure will be described on the scope level.
- In the Xcalibur Management Console window, expand the folders under Xcalibur Farm Manager to reveal the target scope. In this example expand: Sites \ Europe \ IP Scopes.



Figure 3-69: Xcalibur Management Console - Select Target OU

3. Select the target scope (In this example Germany).



- 4. Right-click on the target scope (**Germany** in this example) to display a menu.
- 5. On the menu, click **Properties** to display the *Site Scope* dialog box.



Figure 3-70: Xcalibur Management Console – Target OU > Properties



6. In the *Site Scope* dialog box, select the **Device** *VDI* tab.

rope \ German	y .	?
Hotfix Servic Protocol Setting: General Authe	e   Plugins Service   Client Discovery s   Notes   Policy Updater   Device VDI   User Intication Properties   Recovery service   UpgNade Se	/ VDI rvice
Name	Value	
Scope Id	5	
Scope GUID	{4A328BCE-7911-4A83-BC7B-D1B84667640A}	
Start IP Addr	192.168.8.131	
End IP Address	192.168.8.150	
Netmask	255.255.255.0	
Scope Name	Germany	
Site Name	Europe	
	Image:	
		8
	OK Cancel App	ly:

Figure 3-71: <Site \ Scope> Dialog Box

7. Uncheck the Inherit From Parent check box.

Hotfix Servi	- 1	Diuging Serv		Client D	iccoverv
Protocol Setting	is   Notes	Policy Up	dater	Device VDI	Liser VDI
	VDI service o	offers connec	tivity to v	irtual server: Inherit From	s Parent —
Type:	Manual	¥	Me";	None	<b>T</b>
Assign Virtual Desktop from	Parent O	U			_
DNS Name Pattern	*		Lease Type:	Static	<u></u>
Power optio	ns		Lease	Duration	1
Action	Don't Wake	up 💌	Days:	0	<u>*</u>
Timeout (see	:): [	10 🔽	Hours:	1	<u>*</u>
Operating System	*	1		Ad	Ivanced
Computer Account	<any></any>				

Figure 3-72: <Site \ Scope> Dialog Box - Device VDI Tab

Chapter 3 - Planning & Implementing VD Assignment



8. In the Assignment type drop down list box, select Automatic.

Seneral Authentication Properties	Recovery service   Upgrade Servic
Protocol Settings   Notes   Policy	Updater Device VDI User VD
<b>7</b>	
VDI service offers conr	hectivity to virtual servers
ingeneration de la la	I Inherit From Parent
Assignment Manual	▼ "Follow None ▼
Assign Virtual Deckton from	
DNS Name	Lease
Pattern J	Type: Prau
Power options	Lease Duration
Action Don't Wake up 💌	Days: 0 💌
Timeout (sec):	Hours: 1
Operating * System	in the second se
Computer r	Advanced
Account SADV>	¥

Figure 3-73: <Site / IP Scope> Dialog Box – VDI Tab



- 9. In the Assign Virtual Desktop from drop down list box, select one of the following:
  - Select Parent OU to assign the VD from the parent OU of the device requesting a VD assignment.
  - Select **Other OU** to enter a specific OU from which the VDs will be assigned.

ope \ Germ	any	224	?
Hotfix Serv General   Aut Protocol Settir	vice   Plugins Se hentication Properties   ngs   Notes   Policy (	rvice Client Dis Recovery service Upgr Jpdater Device VDI	covery ade Servic User VD
Ø	VDI service offers conn	ectivity to virtual servers	arent —
Assignment Type:	Automatic	Follow None	~
Assign Virtua Desktop fror	al n: Parent OU Parent OU Other OI		
DNS Name Pattern	Virtual Center	Lease Type: Static	
Power opt	ions	Lease Duration	
Action	Don't Wake up 🔄	Days: 0	<u></u>
Timeout (se	ec): 10 💌	Hours: 1	*
Operating System Computer Account	*   <any></any>	Adv	anced
	<b>1</b>		2.4

Figure 3-74: <Site \ Scope> Dialog Box – Device VDI Tab



10. Click the Browse button **button** to open the **Browse for OU** dialog box.

HOULD SELVIC	e   Plugins S	ervice	Client D	iscovery
eneral   Authe Protocol Setting:	ntication Properties   5   Notes   Policy	Recovery se Updater	rvice   Upg Device VDI	User VDI
<b>a</b>	<u>.</u>			
	VDI service offers con	nectivity to vi	rtual servers	;
Assignment	r.	L		Parent
Type:	Automatic	⊥ Me";	None	<u> </u>
Assign Virtual Desktop from:	Other OU			
]				
DNS Name #				-12
Pattern	*	Lease Type:	Static	<b>_</b>
Power option	15	Lease [	Duration	1
Action	Don't Wake up 📃 💌	] Days:	0	
Timeout (sec)	: 10 <u>*</u>	] Hours:	1	<u>*</u>
Operating	*	10	-	8
System			Ăc	lvanced
Computer r	<any></any>		<b>-</b>	-
Account				

Figure 3-75: Device VDI Tab – Active Directory - Browse Button

11. In the **Browse for OU** dialog box, select the OU containing the VDs that will be assigned.



Figure 3-76: Browse for OU dialog box

12. Click **OK** to complete the OU selection and to return to the *Site Scope* dialog box.



ope \ Germa	iny		?
Hotfix Serv General   Auth	rice   Plugins Ser hentication Properties   F	vice Cl Recovery service	ient Discovery Upgrade Service
Protocol Settin	igs   Notes   Policy L	Ipdater Device	VDI User VDI
P	VDI service offers conne	ectivity to virtual s	ervers
		Inherit	From Parent —
Assignment Type:	Automatic 📃	- "Follow IN Me"; IN	one 💌
Assign Virtua Desktop from	il n: Other OU	an takin ma	•
	net8.ga8/Chip PC		
DNS Name	[*	Lease Stati	
Pattern	K	Type: Stati	
Power opti	ons	Lease De Time	Expiration
Action	Don't Wake up	Days: U	
Timeout (se	ic): 10 💌	Hours: 1	*
Operating	*	165. 71	
System			Advanced
Computer Account	<any></any>	•	

Figure 3-77: Assigned VDI Desktop Tab – Automatic – Active Directory – Lease Type

- 13. From the Lease Type drop down list box, select one of the following lease types:
  - Static for an unlimited lease duration (never expires).
  - **Time Expiration** for a time limited lease that will expire after a preset duration.



14. If a **Time Expiration** lease type is selected, enter the **Days** and **Hours** in the **Lease Duration** section.

Hotfix Servic		200
eneral Author rotocol Setting	e Plugins Ser entication Properties   R (s   Notes   Policy U VDI service offers conne	vice Client Discovery tecovery service Upgrade Servic pdater Device VDI User VD ectivity to virtual servers
		Inherit From Parent
Assignment Type:	Automatic	Follow None
Assign Virtual Desktop from:	Other OU	
	net8.qa8/Chip PC	
DNS Name Pattern	*	Lease Time Expiration 💌
Power optio	ns	Lease Duration
Action	Don't Wake up 💌	Days: 1 🗸 💌
Timeout (sec	); 10 💌	Hours: 8
Operating System	*	
Computer Account	<any></any>	Advanced
	OK	Cancel Apply

Figure 3-78: Assigned VDI Desktop Tab – Automatic – Active Directory - Lease Duration

15. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# 8 Automatically Assigning a VD from the Active Directory to a User

**IMPORTANT** Domain User Authentication must be activated on the scope containing the device receiving a VD assignment.

In Scope Properties \ Authentication Properties tab \ User Authentication Provider, verify that the Active provider is "Domain User Authentication Provider".

## 8.1 Active Directory Permissions

In order to perform VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Active Directory:

The Read permission is required on the parent OU containing the VDs that will be assigned.

## 8.2 Xcalibur Farm Manager Permissions

In order to configure automatic VD assignments, the user running the Xcalibur Global Management Console must have the following permissions in the Xcalibur Farm Manager:

- The Read Site Data and the Write Site Data permissions are required on the site where the automatic assignment will be configured.
- **NOTE** The above permissions are in addition to any other permissions required for Xcalibur Global Management.



### 8.3 Xcalibur Global User Settings

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.1 > Management Console** to launch the Xcalibur Global Management Console.
  - **NOTE** Automatic VD assignment can be configured on the Farm / Site / Scope level using the exact same procedure. In this document the procedure will be described on the scope level.
- In the Xcalibur Management Console window, expand the folders under Xcalibur Farm Manager to reveal the target scope. In this example expand: Sites \ Europe \ IP Scopes.



Figure 3-79: Xcalibur Management Console - Select Target OU

3. Select the target scope (In this example Germany).



- 4. Right-click on the target scope (**Germany** in this example) to display a menu.
- 5. On the menu, click **Properties** to display the *Site Scope* dialog box.



Figure 3-80: Xcalibur Management Console – Target OU > Properties



6. In the *Site* **Scope** dialog box, select the **User VDI** tab.

Hotfix Servic	e Plugins Service Client Dis	covery
Protocol Setting: General Authe	s Notes Policy Updater Device VDI ntication Properties Recovery service Upgra	User VDI ade Service
Name	Value	1
Scope Id	5	2
Scope GUID	{4A328BCE-7911-4A83-BC7B-D1B84667640A}	
Start IP Addr	192.168.8.131	
End IP Address	192.168.8.150	
Netmask	255.255.255.0	
Scope Name	Germany	
Site Name	Lurope	
		2
		Analys

Figure 3-81: <Site \ Scope> Dialog Box – User VDI Tab

7. Uncheck the Inherit From Parent check box.

ope \ Germany			?
Hotfix Service Seneral   Authenticat Protocol Settings	Plugins Se ion Properties     Notes   Policy (	rvice Clie Recovery service J Jodater Device V	nt Discovery Upgrade Service /DI User VDI
VDI se	rvice offers conn	ectivity to virtual se	vers rom Parenti —
Assignment Ma	inual 🔄	Me"; No	ne 🗾
Assign Virtual Desktop from: Pa	rent OU		
DNS Name Pattern	]	Lease Static	
Power options		Lease Duration	
Timeout (sec):	wake up	Hours: 1	× ×
Operating * System			Advanced
Computer Account	>	Y	
	ОК	Cancel	Apply

Figure 3-82: <Site \ Scope> Dialog Box – User VDI Tab

Chapter 3 - Planning & Implementing VD Assignment



8. In the Assignment type drop down list box, select Automatic.

eneral Authentication Properties R	ecovery service Upgrade Servic
Protocol Settings   Notes   Policy U	pdater   Device VDI   User VD
<b>a</b>	
VDI service offers conne	ctivity to virtual servers
	Inherit From Parent
Assignment Manual	Follow None
Assign Virtual	Mer: 1.000
Desktop from: Manual	
1	
DNS Name * Pattern	Lease Static 💌
- Power options	
Action Don't Wake up	Davs: 0
Operating	
System I	ådvanced 1
Computer	The rest of the second
Account 1 Shure	

Figure 3-83: <Site / IP Scope> Dialog Box – VDI Tab – Assignment Type



- 9. In the Assign Virtual Desktop from drop down list box, select one of the following:
  - 9.1. Select **Parent OU** to assign the VD from the parent OU of the user requesting a VD assignment.
  - 9.2. Select **Other OU** to enter a specific OU from which the VDs will be assigned.

ope \ Germa	any	204	?
Hotfix Serv General   Auth Protocol Settin	rice   Plugins Serv hentication Properties   R igs   Notes   Policy Up	vice   Client Dis ecovery service   Upgra odater   Device VDI	covery ide Servici User VDI
Ø	VDI service offers conne	ctivity to virtual servers	arent —
Assignment Type:	Automatic	Follow None	~
Assign Virtua Desktop fron	al n; Parent OU Parent OU		
DNS Name Pattern	Virtual Center 15	Lease Type: Static	•
Power opti	ions	Lease Duration	
Action	Don't Wake up 💌	Days: 0	v
Timeout (se	sc): 10 💌	Hours: 1	*
Operating System Computer Account	*   <any></any>	Adv	anced
	ОК	Cancel	Apply

Figure 3-84: <Site \ Scope> Dialog Box – Device VDI Tab



10. Click the Browse button **button** to open the **Browse for OU** dialog box.

Hotrix Service	e   Plugins Se	ervice	Client Dis	covery
eneral Authe	ntication Properties	Recovery ser	vice Upgr	ade Servic
rotocol Settings	;   Notes   Policy	Updater   D	Device VDI	User VD.
<b>7</b>				
<b>6</b> 7 '	/DI service offers conn	ectivity to vir	tual servers	
		— — [] D	nherit From P	Parent —
Assignment Type:	Automatic	Me";	None	<u> </u>
Assign Virtual	Other OU			-
Desktop from:	1.			
ļ				
DNS Name p	*	Lease	(	
Pattern		Type:	Static	1
Power option	15	Lease D	uration	
Action	Don't Wake up 🛛 🗾	Days:	0	×
Timeout (sec)	10 💌	Hours:	1	*
	10.		<u>.</u>	
Operating	*			
Suctor			Ad	/anced
System I			¥	
System   Computer   Account	<any></any>			

Figure 3-85: Device VDI Tab – Active Directory - Browse Button

11. In the **Browse for OU** dialog box, select the OU containing the VDs that will be assigned.



Figure 3-86: Browse for OU Dialog Box

12. Click **OK** to complete the OU selection and to return to the *Site Scope* dialog box.

Chapter 3 - Planning & Implementing VD Assignment



Hothx Serv General   Autl	nce   Nentication Pro	Plugins Ser operties   F	rvice   Recovery se	Client Di rvice Upg	iscovery rade Servic
Protocol Settin	gs   Notes	Policy L	Ipdater	Device VDI	User VDI
0					
C	VDI service	offers conne	ectivity to vi	irtual servers	;
			— <b>C</b> )	Inherit From	Parent —
Assignment	Automat	ic N	, "Follo	//	
Type:	Maconiac	iu: <u>110</u>	Me";	Inoue	
Assign Virtua Desktop fron	l Other Ol	Ĵ			•
	net8.ga8/C	hip PC			<u> </u>
	1				
DNS Name Pattern	*		Lease	Static	•
			Type:	Static	
Power opti	ons		Lease [	Time Expire	ation
Action	Don't Wake	up 🔳	Days:	LUGONTR	
Timeout (se	c): [	10 💌	Hours:	1	×
Operating	*		483	-	20 
System				Ad	vanced.
Computer Account	<any></any>				
100000000000000000000000000000000000000					

Figure 3-87: Assigned VDI Desktop Tab – Automatic – Active Directory – Lease Type

- 13. From the Lease Type drop down list box, select one of the following lease types:
  - Static for an unlimited lease duration (never expires).
  - **Time Expiration** for a time limited lease that will expire after a preset duration.
  - Log Off / Reboot for temporary lease that will expire when the user logs off or when the device is rebooted.



14. If a **Time Expiration** lease type is selected, enter the **Days** and **Hours** in the **Lease Duration** section.

ope \ Germa	iny	?
Hotfix Serv eneral   Autl Protocol Settin	rice   Plugins Ser hentication Properties   R igs   Notes   Policy U	vice   Client Discovery ecovery service   Upgrade Servic pdater   Device VDI User VD
Assignment	VDI service offers conne	ctivity to virtual servers
Type: Assign Virtua	Automatic	Me": None
DNS Name Pattern	net8.qa8/Chip PC	Lease Time Expiration 💌
Power opti	ons	Lease Duration
Action	Don't Wake up 💌	Days: 6
Timeout (se	c): 10 💌	Hours: 6
Operating System	*	Advanced
Computer Account	<any></any>	• • • • • • • • • • • • • • • • • • •
	ок	Cancel Apply

Figure 3-88: Assigned VDI Desktop Tab – Automatic – Active Directory – Lease Duration

15. Click **OK** to complete the VD assignment procedure and to return to the Xcalibur Global Management Console.



# Chapter 4 Monitoring

This chapter explains how to monitor VD assignments. Monitoring allows us to keep track of various VD assignment information such as: lease expiration, assignment method, active user, active device, etc. There are two monitoring interfaces available for VD assignments:

- The Desktops section used to monitor assignments within a particular site.
- The **Find** option used to monitor assignments based on advanced cross-site queries.

# **Using Desktops to Monitor VD Assignments**

A **Desktops** section is found in each of the sites and it lists all VD assignments for devices belonging to the site or for users that are logged-on to devices belonging to the site. This Section explains how to access the Desktops section and how to monitor the listed VD assignments. In addition, there is an overview of some of the management options that are available in the **Desktops** section.

# 1 Accessing the Desktops Section

Perform the following steps to access the **Desktops** section:

- 1. In the Xcalibur Management Console window, expand the path: Xcalibur Farm Manager \ Administrative Suite \ Sites.
- 2. Select the site that contains the target desktops (in this example: Europe).
- 3. Within the selected site, select **Desktops**.



Figure 4-1: Xcalibur Farm Manager – Desktops

**NOTE** The list of Desktops can be sorted by any one of the information fields. Similarly the Filter option within the View menu, enables the list to be filtered based on values in any one of the information fields.



# 2 Monitoring Listed VD Assignments

After selecting the **Desktops** section, a list of VD assignments appears in the right pane. Each line represents an assignment of a VD to a user or to a device. The lines are divided into columns listing the major properties that define the VD assignment including:

- The IP address of the VD
- The Lease Expiration Time
- The IP of the Device
- The assignment method
- The VD NetBIOS name
- The Device NetBIOS name
- The User name

Two additional monitoring options are available via the Desktops section:

- The VD assignment icons provide summary information regarding the VD assignment method and the lease status.
- The VDI Usage properties provides detailed information regarding all of the properties that define the VD assignment.

## 2.1 VD Assignment Icons

In the list of VD assignments that appear in the Desktops section, each line is preceded by an icon indicating the assignment method and the status of the lease assignment (refer to Table 4-1).

#### Table 4-1: Desktop Status Icon

Icon	Description
	Assignment Method: Prohibited
稽	The device/user is prohibited from being assigned a VD.
	Assignment Method: Automatic
<b>Ť</b>	Expired lease.
<b>*</b>	Valid lease. Will expire upon Device Restart or User Log-off.
춗	Valid lease. One of the following types: Time Expiration – will expire after a fixed period. Static (unlimited) – will never expire.



#### Table 4-1: Desktop Status Icon - continued

lcon	Description			
Assignment Method: Manual				
	Valid lease. One of the following types: Time Expiration – <b>more</b> then 30% of lease time remains. Static (unlimited) – will never expire. Will expire upon Device Restart or User Log-off.			
<b>,</b>	Valid lease. Time Expiration – <b>less</b> then 30% of Lease time remains.			
	The Lease has expired.			
Error Status				
2	There has been a Device error <sup>1</sup>			
	There has been a User error <sup>1</sup>			

<sup>&</sup>lt;sup>1</sup> In the event of an unexpected and/or illegal mode (not listed in the table above), an error will appear as a Device error or a User error depending on the Assigned To object type.



## 2.2 VDI Usage Properties

The VDI Usage properties are all of the properties that define the VD assignment. Perform the following steps to view the VDI Usage properties:

1. Select the **Desktops** section to view a list of VD assignments in the right pane.



Figure 4-2: Xcalibur Farm Manager - Desktops

2. In the right pane, select and right-click the desired assignment to display a menu.

🌇 Xcalibur - [Console Root\Xcalibu	r Farm Manager\Sites\Europe\Desktops	3	
🚡 Eile Action View Favorites	<u>W</u> indow <u>H</u> elp		<u>_8×</u>
🧢 🔶 🖻 💽 🗡 😰 😫	😰 🔟   🖳 📮 💋 🍓 🗶 🌲	🕹 📴 🖻 🔯 🕹 🧶 🦉 🔧 🙀	
Console Root	Desktop IP Address Friendly Name DNS N	lame Lease Expiration Time	Lease Duration
🗄 🔀 Xcalibur Directory Manager	192.168.8.173 XPNET8-5 XPNE	18-5.net8.qa8 Unlimited	n/a
E G Xcalibur Farm Manager	View Current Device/User Settings     Remote Control	net8.qa8 9/26/2007 3:31:11 PM	30 days 1 hours
E-VO Sites	Linked Info	Thin Client <u>D</u> evice	
Europe	All Tas <u>k</u> s	AD Devi <u>c</u> e     AD Use <u>r</u>	
Tasks	Delete	<u>V</u> DI Desktops	
E G Front End Servers Gients Gients Gients Gients Desktops	Refresh	Sessions Info 45	
	Properties	Events Resulting Policy	
	Help		
⊕ - III Asia     ⊕ - III North America     ⊕ - III North America		_	
a sossiell book			•
Show VDI Usage			

Figure 4-3: Desktop Menu - Linked Info

3. In the menu, click **Properties** or **Linked Info** > **VDI Desktops** to display **VDI Usage Properties** dialog box.



4. Select the **VDI usage** tab to view properties related to the lease and properties related to the assigned user/device.

IP Address VM Guid Assigned Object GUID (Device / User) Assigned Object Name (Device / Us Assigned Object Type (Device / User)	192.168.8.173 {503493D6-E12D-CEC8-4208-1508B8 {CD82FFD7-BE9F-4D14-A563-000535	
VM Guid Assigned Object GUID (Device / User) Assigned Object Name (Device / User) Assigned Object Type (Device / User)	{503493D6-E12D-CEC8-4208-1508B8 {CD82FFD7-BE9F-4D14-A563-000535	
Assigned Object GUID (Device / User) Assigned Object Name (Device / Us Assigned Object Type (Device / User)	{CD82FFD7-BE9F-4D14-A563-000535	
Assigned Object Name (Device / Us Assigned Object Type (Device / User)		
Assigned Object Type (Device ( User)	KR_00053501872B	
issigned object type (bettee / eser/	Device	
Assigned By	Manual	
Assigned Device MAC	00053501872B	
User GUID	{FE6D0127-F733-4308-A241-100945	
Active Name	Administrator@net8.ga8	
Device GUID	{CD82FFD7-BE9F-4D14-A563-000535	
Device IP	192.168.8.163	
Active Device	KR_00053501872B	
Front End Server GUID	{FF673E0D-B1DB-64B0-BD3A-989C4C	
Front End Server IP	192.168.8.70	
Lease Time	8/27/2007 10:29:44 AM	
Lease Expiration Time	Unlimited	
Lease Duration	n/a	
Lease Type	Unlimited	
4		

Figure 4-4: VDI Usage Properties – VDI Usage Tab

5. Select the VM info tab to view properties related to the assigned VD.

Name	Value
Desktop ID	5
PoolID	1
VM DB Guid	{D1C58F18-082D-4560-8590-EBE308F6093A}
AD Guid	{FACE5A45-FC64-4767-B6F3-2A0A6FA7CFB0}
ADParent Guid	{FC671DF2-8812-46AE-8A4D-D493B6C53583}
ADParent Name	net8.ga8/Xcalibur Global/VDI
Desktop IP Address	192.168.8.173
DNS Name	XPNET8-5.net8.ga8
VM Guid	{503493D6-E12D-CEC8-4208-1508B881CCB3}
Host Guid	n/a
Host Name	192.168.8.55
OS Id	n/a
Friendly Name	XPNET8-5
VM State	n/a
VM Machine Type	1
•]	<b>]</b> •

Figure 4-5: VDI Usage Properties – VM Info Tab



# 3 Desktops Management Options

A number of management options can be performed on the VD assignments via the **Desktops** section. Following are a few selected management options:

- Remote Control
- General Tasks

### 3.1 Remote Control

Three remote control options are available:

- Thin Client (VNC) remote control the device using the VNC plug-in.
- Virtual Desktop (VM Console) remote control the VD using the VMware Remote Console utility.
- Virtual Desktop Session (RDP/ICA) shadow an active session using the RDP client.

Perform the following steps to use a remote control option:

- 1. Select the **Desktops** section to view a list of VD assignments in the right pane.
- 2. In the right pane, select and right-click the desired assignment to display a menu.
- 3. On the menu, click **Remote Control** and select the desired remote control option.

🌇 Xcalibur - [Console Root\Xcalibu	r Farm Manager\Sites\Europe\Desktops		
📸 Eile Action View Favorites	<u>W</u> indow <u>H</u> elp		_8×
'← →   € 💽 🗡 🗗 🗟	😫 🖭   🖳 🐺 🛃 🍓 🗏 🕹	🕹 😂 🖸 🔯 🕹 🧐 🛃	
Console Root	Desktop IP Address   Friendly Name   DNS N	ame Lease Expiration Time	Lease Duration
Xcalibur Directory Manager Xcalibur Farm Manager Administrative Suite Administrative Suite Sites Default Site Europe Tasks Front End Servers Clients Susers Users Desktops Asia North America Session Desk	192.168.8.173       XPNET8-5       XPNET         31       View Current Device/User Settings         Remote Control       Linked Info         All Tasks       Delete         Refresh       Properties         Help       Yes	8-5.net8.qa8 Unlimited net8.qa8 9/26/2007 3:31:11 PM ▶ Thin Client (VNC) ▶ Virtual Desktop (VM Console) ₩irtual Desktop Session (RDP/ICA)	n/a 30 days 1 hours

Figure 4-6: Desktops - Menu – Remote Control



### 3.2 General Tasks

Five general task options are available:

- Log-off User
- Reboot Device
- Send Message sends a message to the device.
- Ping Client pings the device.
- Ping Desktop pings the VD.

Perform the following steps to use a general task option:

- 1. Select the **Desktops** section to view a list of VD assignments in the right pane.
- 2. In the right pane, select and right-click the desired assignment to display a menu.
- 3. On the menu, click **All Tasks** and select the desired general task option.

🌇 Xcalibur - [Console Root\Xcalibu	r Farm M	anager\Sil	tes\Europe\De	sktops]			_ 🗆 🗙
🚡 Eile Action View Favorites	<u>W</u> indow	Help					<u>_8×</u>
⇐ ⇒ 🗈 📧 🗙 😭 🖻	1 😭 🗖	🖳 📮	0 🛃 😸 🔱	🛃 🏯 💐	🗑 🗟	👸 🕹 🤓 🥌 🙀	
Console Root	Desktop	IP Address	Friendly Name	DNS Name		Lease Expiration Time	Lease Duration
Xcalibur Directory Manager     Xcalibur Farm Manager     Administrative Suite     Sites	<b>192.</b> (3) 192	168.8.173 View Curre Re <u>m</u> ote Co Linked Info	XPNET8-5 ent Device/User S ontrol	XPNET8-5. ettings •	net8.qa8 et8.qa8	Unlimited 9/26/2007 3:31:11 PM	n/a 30 days 1 hours
		All Tas <u>k</u> s		, X	Log-of	f User	
		<u>D</u> elete Re <u>f</u> resh			<u>R</u> eboo Send f Pina C	ot Device Message Ilient	
- 👬 Clients		Properties			Pi <u>ng</u> D	esktop	
		<u>H</u> elp			]		
E III Asia E IIII North America E IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	4						×
Send an instant message to the selected	clients						

Figure 4-7: Desktop - Menu – All Tasks



# **Using Find to Monitor VD Assignments**

**Find** is used to locate and monitor VD assignments across sites based on used specified criteria input to search engine. This Section explains how to access and use the **Find** section and how to monitor the listed VD assignments.

# 1 Using Find to Search for VD Assignments

- 1. In the Xcalibur Management Console window, expand the path: Xcalibur Farm Manager \ Administrative Suite
- 2. Select and right-click **Find** to open a menu.
- 3. On the menu, click **New** > **VDI Search...**.



Figure 4-8: Xcalibur Farm Manager - Find



4. In the VDI Search dialog box, click More >> to display more search filtering criteria.

arch Name	Enter Filter Search Name He	are.]			
signed Object	y		dress		
ame (Device / User)		From:	1	8	80 E
isigned to	(any)	То;	1	8	2
er Name					
tive Device	-	Device IP	-		
lease Type	(any)	From:		<u>8</u> 8	¥
vice MAC		To:		81	3E .
IS Name		1 <u>1</u>			
st Name	-	Server IP			
a d	(apy)	From:	- X	())	х ,
l Friendly Name		To:		8	(h)
r nendry Marile	areas a	L			
IState	(any)				

Figure 4-9: VDI Search Dialog Box



5. In the Search Name text box, type in a name for the search (in this example: Device 1).

earch Name	Device 1				
			dua an in		
Assigned Object Name (Device / User)	1	From:	uress	771	
Assigned to	(any)	Tax			•:
Jser Name	(any) Device	10;	1 .		
Active Device	User	r Device IP			
Release Type	(any)	From:	35	<u></u>	x
Device MAC		To:	1	8	10
DNS Name					
Host Name	<u>.</u>	Server IP	-		
OS Id	(any)	From:	X	(3) -	x
VM Friendly Name		To:	13	Ċ.	(†). 57
VM State	(any)	<b>T</b>			
Lease Duration (min)				Less	<<
/M DB Id	l	From:	1 8	3	8
Jser GUID		To:	1	3	7
Device GUID		-Lassa Tie			
Assigned By	(any)	Erom:	E (OTC)	33.12:0	9:2007
-ollow Me		To:	22:58:	33 12:09	9:2007
Machina Tuna			, finns		· · · ·
denine rype	((gi)y)		n Time (UTC) -	22 12/0	1/2007
		From:	122;50;	33 12;0	9:2007
AD Parent Name		To:	22:58:	33 12:09	9:2007

Figure 4-10: VDI Search Dialog Box - Full

- 6. Use the drop down list boxes and text boxes to further define the search as required (refer to Table 4-2).
- **NOTE** The search criteria are cumulative; each new criteria will either further narrow the results or have no effect (if it does not apply). The search results are those that have met all the input criteria.





#### Table 4-2: VDI Search Dialog Box Definitions

Box	Description
Search Name	A user-friendly name for the current search
Assigned Object Name (Device/User)	If the name that was assigned to the Device or User that is target of the search, is known type it in here.
Assigned to	To select to search by User or Device, select in the drop-down list: (any) default Device User
User name	If the User name of the target is known, type it in here.
Active Device	
Release Type	To select to search by Release Type, select in the drop-down list: <ul> <li>(any) default</li> <li>Unlimited</li> <li>Time Expiration</li> <li>User Logoff/Device Reboot</li> </ul>
Device MAC	If the MAC address of the target is known, type it in here.
DNS Name	If the DNS name of the target is known, type it in here.
Host Name	If the Host name of the target is known, type it in here.
OS ld	Select the OS (Operating System type) in the drop-down list
VM Friendly Name	If the VM Friendly name of the target is known, type it in here
VM State	To search by VM State, select in the drop-down list: (any) default Off On Suspended
Lease Duration (min)	If the Lease duration in minutes of the target is known, type it in here
VM DB Id	If the VM DB Id of the target is known, type it in here
User GUID	If the User GUID of the target is known, type it in here
Device GUID	If the Device GUID of the target is known, type it in here



### Table 4-2: VDI Search Dialog Box Definitions - continued

Box	Description
Assigned By	To search by Assignment, select in the drop-down list: (any) default Automatic Manual Prohibited
Follow Me	
Machine Type	To search by Machine Type, select in the drop-down list: (any) default VM VM Template
AD Parent Name	Click the browse button to open a dialog box and navigate to the AD parent directory
VM IP Address	Search range of VM IP addresses, type in beginning and end addresses
Device IP	Search range of Device IP addresses, type in beginning and end addresses
Server IP	Search range of Server IP addresses, type in beginning and end addresses
Lease Time (UTC)	Search range for Lease assignment begin time (UTC), select time range
Expiration Time (UTC)	Search range for Lease expiration time (UTC), select time range

7. In the **VDI Search** dialog box, click OK after completing the desired search criteria.



8. In the Xcalibur window, under **Find** select the search name (in this example: **Device 1**), the results of the search are then displayed in the right pane.

Tonsole Root\Xcalibur - [Console Root\Xcalibur	Farm Manager\Adn <u>W</u> indow <u>H</u> elp	ninistrative Sui	ite\Find\Device	₽ 1 <u>]</u>		
← →   🖻 💽 🗡 😰 😫	😤 🖬					
🔁 Console Root	Desktop IP Address	Friendly Name	DNS Name	Lease Expiration	Lease Duration	Assigned Object Type
🗄 🔀 Xcalibur Directory Manager	🦓 n/a	n/a	X-Test27.ne	Expired	1 hours	Device
😑 🌍 Xcalibur Farm Manager	🍈 🍋 n/a	n/a	n/a	Prohibited	n/a	Device
🖻 🍯 Administrative Suite	i 🍓 n/a	n/a	X-Test26.ne	Expired	1 hours	Device
📕 Database	🌀 n/a	n/a	n/a	Prohibited	n/a	Device
E Servers	🏠 n/a	n/a	X-Test30.ne	Unlimited	n/a	Device
Site Assigned Servers	si n/a	n/a	X-Test31.ne	2/19/2008 4:02:	155 days	Device
	🧴 n/a	n/a	X-Test32.ne	11/21/2007 4:03	65 days	Device
Software Repository	🤳 n/a	n/a	X-Test33.ne	Expired	8 hours	Device
Backed up Sites	🤳 n/a	n/a	X-Test34.ne	Expired	4 hours	Device
Unaccigned Clients	🤳 n/a	n/a	X-Test35.ne	Expired	1 hours	Device
	🦓 n/a	n/a	X-Test22.ne	Expired	1 hours	Device
	🧓 n/a	n/a	n/a	Prohibited	n/a	Device
Device 1	(an/a	n/a	n/a	Prohibited	n/a	Device
Virtual Center	(an/a	n/a	n/a	Prohibited	n/a	Device
🗄 🍪 Sites	[ 💁 n/a	n/a	X-Test18.ne	Unlimited	n/a	Device
🗄 👲 Session Desk	🐁 n/a	n/a	X-Test19.ne	Unlimited	n/a	Device
00.00070000000000000000000000000000000	i 🆓 n/a	n/a	X-Test24.ne	Expired	1 hours	Device
	😭 n/a	n/a	X-Test25.ne	Expired	1 hours	Device
	🚰 n/a	n/a	X-Test23.ne	Expired	1 hours	Device
	•					•
ollects VDI desktops whose parameters o	orrespond to search crit	eria				Total: 38

Figure 4-11: Xcalibur Farm Manager – Find – Search Monitor

- **NOTE** The search is ongoing and the results are continuously updated.
- **NOTE** Multiple searches can be launched simultaneously; they are listed chronologically below the first search.

# 2 Monitoring Listed VD Assignments

Refer to Monitoring Listed VD Assignments in previous Chapter.

# 3 Desktops Management Options

Refer to Desktops Management Options in previous Chapter.



# Chapter 5 Advanced VD Assignment

# Filtering


# Appendix A Prohibited VD Assignment

#### 1 Introduction

This Appendix describes the procedures for the options of prohibiting either

- VD Assignment to a Device
- VD Assignment to a User

### 2 Prohibiting VD Assignment to a Device

To prohibit VD assignment to a device:

- 1. On the Task Bar, click **Start** > **Programs** > **Xcalibur Global 1.2** > **Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, expand the tree under Xcalibur Directory Manager to reveal the OU that contains the target device. In this example expand: net8.qa8 \ Chip PC \ Thin Clients \ Berlin.



Figure 5-1: Xcalibur Management Console - Select Target OU



- 3. Right-click on the target device (**KR\_000535018719** in this example) to display a menu.
- 4. On the menu, click **Properties** to display the *<Device>* Properties dialog box.

📸 Xcalibur - [Console Root\Xcalibur Directory	Manager\net8.qa8\Chip	PC\Thin Clients\f	Berlin] 💶 🗵 🗙
📸 File Action View Favorites Window H	elp		<u>_8×</u>
	0 2 🛍 足 🐯 8	2 🕹 🗟 💐 😂	
Console Root Xcalibur Directory Manager Reflection PC Grant Chip PC Grant Chi	Name Alice Bob Carol David Eve KR_000535018719 KR_000535018718 KR_000535018728 KR_000535018735	Type         User         User         User         User         This Cleast         Move         Show Resulting Po         Yiew Current Devic         Show Policy Link Er         Time Limited Overr         Thin Client Linked J         Thin Client Events         VDI Usage         Sessions Info         Cut         Delete         Ptoperties         Help	licy re Settings vents iding Policy Info
Opens the properties dialog box for the current selection	on.		

Figure 5-2: Xcalibur Management Console – Device - Menu

5. In the *<Device>* Properties dialog box, select the Assigned VDI Desktop tab.

_000535018719 Pr	operties ?
Advanced   General   N	Xcalibur Policy   Assigned VDI Desktop Aanaged By   Hardware   Software
View ç	general device details
Device Name:	KR_000535018719
Device Description:	T.
Туре:	Thin Client
Unique ID:	{CD82FFD7-BE9F-4D14-A563-000535018719}
Site Name:	Europe
Scope Name:	192.168.8.151 - 192.168.8.170
	OK Cancel Apply

Figure 5-3: < Device> Properties Dialog Box – Assigned VDI Desktop Tab

Chapter 5 - Advanced VD Assignment



6. In the Assigned By drop down list box select Prohibited.

e Properties	1
Profile	Terminal Services Profile
General	Member of Account Xcalibur Policy
Environment	Sessions Assigned VDI Desktop Security
🕗 Assign	ned Virtual Desktop Information
Assigned By	Automatic
	Automatic
VUI Desktop I	nformation Manual Prohibited
DNS	N N
Virtual Mach	ine Name
Farm/Host N	lame
VirtualCen	ter Browse AD VM Info
VDI Desktop L	ease Information
Expiration	Jnlimited
- E	
Type [:	ptatic rollow Me None Y
Duration	0 🚽 days 0 🚽 hours
Duration J	

Figure 5-4: < Device> Properties Dialog Box – Assigned VDI Desktop Tab – Manual

7. Click **OK** to complete the procedure and to return to the Xcalibur Global Management Console.



## 3 Prohibiting VD Assignment to a User

To prohibit VD assignment to a User:

- 1. On the Task Bar, click **Start > Programs > Xcalibur Global 1.2 > Management Console** to launch the Xcalibur Global Management Console.
- 2. In the Xcalibur Management Console window, expand the tree under **Xcalibur Directory Manager** to reveal the OU that contains the target user. In this example expand: **net8.qa8** \ **Chip PC** \ **Thin Clients** \ **Berlin**.



Figure 5-5: Xcalibur Management Console - Select Target OU



- 3. Right-click on the target user (Alice in this example) to display a menu.
- 4. On the menu, click **Properties** to display the *<User>* **Properties** dialog box.

Hin A Calibour - Console Rooc A Calibour Directory Calibour - Console Rooc A Calibour - Console Rooc A Calibour Directory Calibour - Console Rooc A Calibour - Console Rooc A Cal	Hanayer (neto-yao (cm jelp 😨 🕹 😂		
Console Root Console Root Co	Name Alice Bob Carol David Eve KR_000535018719 KR_000535018719 KR_000535018718 KR_000535018728 KR_000535018735	Type User Show I User Show I User VDI Us User Sessio Thin ( Proper Thin ( <u>H</u> elp Thin Client Thin Client	Description Resulting Policy Policy Link Events rage ns Info ties

Figure 5-6: Xcalibur Management Console

5. In the *<User>* Properties dialog box, select the Assigned VDI Desktop tab.

e Properties		<u>`</u>
Environment	Sessions Assign	ed VDI Desktop
General	Member of Ac	count Xcalibur Policy
alice		
<u>F</u> irst name:	Alice	Initials:
Last name:	l.	
Di <u>s</u> play name:	Alice	
Description:		
Offi <u>c</u> e:	ľ.	
<u>I</u> elephone numbe	r.	<u>O</u> ther
E- <u>m</u> ail:		11.000
<u>W</u> eb page:		Öther
	OK	Cancel Apply

Figure 5-7: *<User> Properties* Dialog Box – Assigned VDI Desktop Tab

Chapter 5 - Advanced VD Assignment



6. In the Assigned By drop down list box select Prohibited.

e Properties	
Profile   General   Environment	Terminal Services Profile Remote control Member of Account Xcalibur Policy Sessions Assigned VDI Desktop Securit
🥭 Assign	ed Virtual Desktop Information
Assigned By	Automatic
VDI Desktop Ir DNS	formation Automatic Manual Prohibited
Virtual Machi Farm/Host N	ne Name
VirtualCent	er Browse AD VM Info
VDI Desktop L	ease Information
Expiration U	nlimited
Type S	tstic 🔄 Follow Me None 💌
Duration 3	days 0 👘 hours

Figure 5-8: < User> Properties Dialog Box – Assigned VDI Desktop Tab – Manual

7. Click **OK** to complete the procedure and to return to the Xcalibur Global Management Console.



# Appendix B How to Install the VDI Broker Plug-in onto TCs

### 1 Objectives

This appendix explains how to use Xcalibur Global to install the VDI Broker plug-in onto thin clients.

The procedure is based on the following steps:

- 1. Select the OU containing the target TCs
- 2. Create an Xcalibur Policy that is linked to the target OU
- 3. Configure the Xcalibur Policy to install the VDI Broker plug-in
- 2 Procedure

#### 2.1 Select the OU Containing the Target TCs

- 1. Launch the Xcalibur Global Management Console by clicking on **Start > Programs > Xcalibur Global 1.2 > Management Console**.
- 2. In the left pane of the Xcalibur Management Console, expand the tree under **Xcalibur Directory Manager** to reveal the OU that contains the target TCs. In this example expand: **net8.qa8** \ **Chip PC** \ **Thin Clients**.

← →   🔁 📧   💼   💕 🙆 😫	😫 💷 🛛 🔂 🛟	🔌 🔯 🔞 🤻	Ø		
Console Root Xcalibur Directory Manager net8.qa8 Chip PC Chip PC Chip C Chip C	Name Alice Bob Carol David Eve KR_0005350 KR_0005350 KR_0005350 KR_0005350	Type User User User User Thin Client Thin Client Thin Client Thin Client Thin Client	Description	Assigned VM De	DNS Name

Figure 5-9: Xcalibur Management Console - Select Target OU

3. In the expanded folders, select the target OU (In this example **Berlin**).



#### 2.2 Create an Xcalibur Policy that is Linked to the Target OU

- 1. Right-click on the target OU (**Berlin** in this example) to display a menu.
- 2. On the menu, click **Properties** to display the *OU***Properties** dialog box.



Figure 5-10: Xcalibur Management Console – Target OU > Properties



3. In the *OU* Properties dialog box, select the Xcalibur Policy tab.

Berlin       Description:       Street:       City:       State/progince:       Zip/Postal Code:       Cigunity/region:	General	Managed By	] Xealibi	It Policyal Se	ecurity )	
Description:   Street:   City:   State/progince:   Zip/Postal Code:   Cguntty/region:	12	Berlin	1. com	Ą		
Street:       ▲         City:       ▲         State/province:       ▲         Zip/Postal Code:       ▲         Cguntry/region:       ▲	<u>D</u> escrip	ition:	1			
City:       State/proyince:       Zip/Postal Code:       Cgunty/region:	<u>S</u> treet:					<u> </u>
⊆ity:       State/progince:       Zip/Postal Code:       Country/region:						
State/province:       Zip/Postal Code:       Country/region:	<u>C</u> ity:					<u> </u>
Zip/Postal Code: Country/region:	State/p	ro <u>v</u> ince:				
Country/region:	Zip/Po:	stal Code:				
	C <u>o</u> untry	Vregion:				
					-	
				OK	Cancel	Apply

Figure 5-11: <OU> Properties Dialog Box – Select Xcalibur Policy Tab

4. In the **Xcalibur Policy** tab, click **New** to open a menu.

eneral   Managed By Xcalibur Po	licy Security	
Current Xcalibur Policy	Object Links for Berlin	
Xcalibur Policy Object Links	No Override	Disabled
calibur Policy Objects higher in the	list have the highest p	riority.
New TC Policy	<u> </u>	Up
Options Create from tem	plate	Do <u>w</u> n

Figure 5-12: Xcalibur Policy Tab – New > TC Policy

5. On the menu, select **TC Policy** to create a **New Xcalibur Policy Object** that will appear in the **Xcalibur Policy Object Links** column.



Cur	rent Xcalibur Policy (	OF   Security   Dbject Links for Berlin	
Xcalibur Policy	Object Links	No Override	Disabled
Xcalibur Policy C	Ibjects higher in the	list have the highest p	riority.
Options	Delete	<u>Properties</u>	Down
Block Policy	nheritance		(.

Figure 5-13: Xcalibur Policy Tab – New Xcalibur Policy Object

6. Type a new policy name ("Device – VDI Broker Plug-in" in this example) over the default name "New Xcalibur Policy Object".



#### 2.3 Configure the Xcalibur Policy to install the VDI Broker Plug-in

1. Select the newly created policy ("**Device – VDI Broker Plug-in**" in this example) and click **Edit** to open the **Policy Editor** window.

🔏 Cu	rrent Xcalibur Policy (	Dbject Links for Berlin	1
Xcalibur Policy	Object Links DI Broker Plug-in	No Override	Disabled
Xcalibur Policy I	Dbjects higher in the	list have the highest	priority.
New		<u>E</u> dit	
	inheritance		Lown

Figure 5-14: Xcalibur Policy Tab – Edit New Policy



In the Policy Editor window, expand the following path:
 <Policy Name> \ Device Configuration \ Installable Software Modules \ Connections

PolicyEditor - [Console Root\l	Device - VDI Br	oker Plug-in\Device Configuration\Ins	tallable Software N	1odules\Connection 🖃 🗖 🗙
Eile Action View Window ← → € II B 2 2 II	Help			<u>_8×</u>
Image: Section of the section of th	nications s des Modules top Connection connection ernet Explorer Properties Installation Pol	Name VDI Broker Usage Info Settings VDI Broker Default Connection Settings VDI BrokerICA Connection Settings VDI Broker RDP Connection Settings	Status Not Configured Not Configured Not Configured	Description VDI Broker Usage Info Set VDI Broker Default Conne VDI Broker ICA Connectio VDI Broker RDP Connectio
2007 Resource Kit \         User Configuration	<u>V</u> iew New <u>W</u> indow fr Export <u>L</u> ist	rom Here		
Installation policy	Help			

Figure 5-15: Policy Editor Window – VDI Broker - Installation Policy

- 3. Under **Connections**, select and right-click **VDI Broker** to open a menu.
- 4. On the menu, click **Installation Policy...** to open the **Installation Policy Properties** dialog box.



- 5. In the **Installation Policy Properties** dialog box, perform the following:
  - 5.1. Select Enabled

stallation Policy Properties	? ×	
Settings Explain Supported Clients		
This third-party Plug-in offers of	connectivity to virtual server/s.	
	Erev	
C Disabled	Next	
Operation Type	Install	
File Placing		
🥅 Prohibit Flas <u>h</u> Usage		
Downloading options	As Policy Recie 💌	
🥅 Prohibit Ram-File usage		
🧮 Prohibit On-Line file obtainment		
Add application icon to		
✓ Desktop	📕 Start Men <u>u</u>	
☐ Settings <u>M</u> enu	📕 System Tray	
Startup options		
Run plug-in on startup	Run Orger 🛛 🚊	
OK	Cancel Apply	

Figure 5-16: Installation Policy Properties Dialog Box

- 5.2. Optional: Select **Run plug-in on startup** to automatically launch a VDI session when the thin client starts up.
- 5.3. Click **OK** to return to the **Policy Editor** window.
- 6. In the **Policy Editor** window, on the **File** menu, click **Exit** to return to the *<OU>* **Properties** dialog box.
- 7. In the *<OU>* Properties dialog box, click Close to complete the procedure and return to the Xcalibur Global Management Console.

#### 3 Process Outcome:

- **X**calibur Global now has a policy that will install the VDI Broker plug-in.
- The policy is linked to the OU that was selected.
- The policy will affect all devices within the OU and any child OUs (as long a there are no restrictions on policy inheritance).



## Appendix C How to Launch a Virtual Desktop Session

This appendix describes the procedure for launching a virtual desktop session from the thin client. The following flowchart offers a general illustration of the opening of a Desktop Session:



Figure 5-17: Opening Desktop Session Flowchart

1. On the Desktop, click on the **My Virtual desktop connection** icon to launch the Virtual Desktop session.



Figure 5-18: Window's Desktop – My Virtual Desktop Connection Icon

Chapter 5 - Advanced VD Assignment



The following events will follow:

1.1. The **VDI Launcher** dialog box appears with the **Waiting for VDI reply...** message. This indicates that the thin client has requested a VD assignment from the server and is now waiting for a reply.



Figure 5-19: VDI Launcher Dialog Box - Waiting for VDI reply...

1.2. The **VDI Launcher** dialog box message changes to **Starting VDI session...** after receiving a VD assignment from the server and initiating a VDI session.



Figure 5-20: VDI Launcher Dialog Box - Starting VDI session...

1.1 The **Connecting** dialog box appears indicating that the thin client has now initiated an RDP connection to the assigned VD.



Figure 5-21: Connecting Dialog Box



1.3. The **Log On to Windows** dialog box appears indicating that the RDP connection has been successfully established.

Copyright @ 1985-2001		
Microsoft Corporation		Microsoft
User name:		
Password:		
	OK Cancel	Options >>

Figure 5-22: Log On to Windows Dialog Box

2. Enter user credentials to log on to the Virtual Desktop.



# Appendix D Creating VDI Broker Compatible Accounts via Script