



Quest® Object Restore for Active Directory

Quick Start Guide

Version 1.0

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About This Guide

This document has been prepared to assist you in becoming familiar with Quest Object Restore for Active Directory, an integral component of Quest Management Suite for Windows. The Quick Start Guide contains the information required to install and use Quest Object Restore for Active Directory. It is intended for network administrators, consultants, analysts, and any other IT professionals using the product.

Conventions

In order to help you get the most out of this guide, we have used specific formatting conventions. These conventions apply to procedures, icons, keystrokes and cross-references.

ELEMENT	CONVENTION
Select	This word refers to actions such as choosing or highlighting various interface elements, such as files and radio buttons.
Bolded text	Interface elements that appear in Quest products, such as menus and commands.
<i>Italic text</i>	Used for comments.
<i>Bold Italic text</i>	Used for emphasis.
Blue text	Indicates a cross-reference. When viewed in Adobe Acrobat, this format can be used as a hyperlink.
	Used to highlight additional information pertinent to the process being described.
	Used to provide Best Practice information. A best practice details the recommended course of action for the best result.
	Used to highlight processes that should be performed with care.
+	A plus sign between two keystrokes means that you must press them at the same time.
	A pipe sign between elements means that you must select the elements in that particular sequence.

About Quest Software

Quest Software, Inc. delivers innovative products that help organizations get more performance and productivity from their applications, databases and infrastructure. Through a deep expertise in IT operations and a continued focus on what works best, Quest helps more than 18,000 customers worldwide meet higher expectations for enterprise IT. Quest Software, headquartered in Irvine, Calif., can be found in offices around the globe and at www.quest.com.

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Contacting Customer Support

To ensure all attributes, group memberships, and linked data are restored along with an object, please look at the enterprise version of Quest Software's Active Directory recovery solution. Recovery Manager for Active Directory provides Active Directory and Group Policy comparison reporting, granular, online recovery of AD objects and attributes, and supports both Windows 2000 and Windows 2003 Active Directory environments. Further information about Recovery Manager for Active Directory can be found at www.quest.com/microsoft.

Product Overview

Introducing Quest Object Restore for Active Directory

Using Quest Object Restore for Active Directory, you can restore objects online in Windows Server 2003 Active Directory environments.

To back up and restore object attributes so attributes can be restored along with the object, and for additional recovery features, look at the enterprise version of Quest Software's Active Directory recovery solution. Information on Recovery Manager for Active Directory can be found at www.quest.com/microsoft.

Challenge

Objects within Active Directory are always at risk of being modified or even deleted by either manual or automated processes, and the safeguards required to ensure that the object is maintained are not always in place. When such an event occurs, currently the administrator struggles with less than ideal methods to restore this data. Administrators can either recreate the object quickly but without its original security context, or reboot a server and do a lengthy restore process. Neither method matches the just-in-time requirement for emergency restores.

Solution

Quest Object Restore for Active Directory enables online authoritative restores of any object within Active Directory including its security identifier (SID) and globally unique identifier (GUID) and makes it immediately available for use.

Upgrade to Recovery Manager for Active Directory

While Object Restore for Active Directory does recover deleted Active Directory objects in a Windows Server 2003 environment using Microsoft's Tombstone Reanimation capability, the product does have certain limitations. Objects recovered do not include attribute or group membership information. In addition, only one object can be restored at a time.

For more robust recovery options allowing for complete Active Directory recovery, consider upgrading to Recovery Manager for Active Directory.

Recovery Manager for Active Directory can:

- Speed recovery time—from hours or days to minutes—to help ensure the availability of corporate networks.
- Increase Active Directory and Group Policy reliability by making backup creation effortless. More frequent backups mean more accurate data.
- Reduce administrative workload with centralized and unattended backup creation and easy-to-use recovery options.
- Lower costs and increase user productivity by eliminating unplanned system downtime.

For further comparisons between native tools, Object Restore for Active Directory, and Recovery Manager for Active Directory, consult the following chart.

RECOVERY STEPS	MICROSOFT NATIVE TOOLS	QUEST OBJECT RESTORE FOR ACTIVE DIRECTORY	QUEST RECOVERY MANAGER FOR ACTIVE DIRECTORY
Determine what's wrong/what objects have changed	No	No	Yes
Restore objects online	Only with scripting	Yes	Yes
Backup remotely	No	No	Yes
Restore objects remotely	No	Yes	Yes
Leverage Tombstone Reanimation capability	Only with scripting	Yes	Yes
Restore all object's attributes	Yes	No	Yes
Restore all group memberships	No	No	Yes
Restore back-linked attributes	No	No	Yes
Roll back changes to an Active Directory object	No	No	Yes
Determine Group Policy objects that have changed	No	No	Yes
Recover Group Policy objects	Yes	No	Yes
Centralized administration of recovery process	No	No	Yes
Required to reboot DC into Restore Mode	Yes	No	No

System Requirements

Before installing Quest Object Restore for Active Directory, please ensure that your system meets the following minimum hardware and software requirements.

Hardware Requirements

- Pentium 1 GHz
- 64 MB RAM (Any requirements required by a particular operating system supersede product requirements.)
- SVGA color monitor and card that support at least 800 x 600 resolution
- Network Interface Card
- Pointing device

Software Requirements

- There must be at least one Microsoft Windows 2003 Server Domain Controller (DC) that is a member of the Active Directory domain on which you will be performing recovery.

Use Quest Object Restore for Active Directory to connect to one of these Windows Server 2003 DCs.

Getting Started

Downloading Quest Object Restore for Active Directory

If you do not already have Quest Object Restore for Active Directory, you can download it from the Quest Software web site.

To download Quest Object Restore for Active Directory

1. Go to the Quest web site at www.quest.com.
2. Follow the instructions provided for product downloads.

Installing Quest Object Restore for Active Directory

To install Quest Object Restore for Active Directory

1. After you download Quest Object Restore for Active Directory use WinZip or another suitable application to unpack the zip file. Unzip the files to an appropriate directory (for example, c:\temp).
2. Double-click **Quest ObjectRestore.msi** to start the installation.
3. Read the Welcome screen and click **Next**.
4. Read and accept the licensing information and click **Next**.
5. Enter your name and company name and click **Next**.
You can choose to install the application settings for the current user or for all users that share the computer.
6. Click **Next**.
7. Accept the default program folder name.

– OR –

Select **Browse** to change the drive or location.

8. Click **Next**.
9. Click **Next** to begin the installation.
10. Click **Finish** when the installation is complete.

Running Quest Object Restore for Active Directory

To run Quest Object Restore for Active Directory

- Select **Start | Programs | Quest Software | Quest Object Restore for Active Directory**.

You are now ready to use Quest Object Restore for Active Directory.

Removing Quest Object Restore for Active Directory

To remove Quest Object Restore for Active Directory

1. Select **Start | Settings | Control Panel**.
2. Double-click **Add/Remove Programs**.
3. Select **Quest Object Restore**.
4. Click **Remove**.
5. Click **Close**.



When removing Quest Object Restore for Active Directory, the product will only remove the files that it has placed on the system. Often, help files will create other files after the installation is complete. These files will remain in the install directory after the product has been removed.

Business Problem Statement

Active Directory is increasingly becoming the most important infrastructure component within IT. Active Directory serves as the basis of the IT security model, hosting crucial applications such as Microsoft® Exchange 2000/2003. To maintain the integrity of this model and reduce downtime it is necessary to ensure that any object deleted from the Active Directory can be quickly restored.

Whether reversing unwanted changes to the directory or restoring objects accidentally deleted by an administrator, it is necessary that the restored object's security context is maintained. It is critical that there is no disruption to the network during the restoration process.

Business Rational

Quest Object Restore for Active Directory provides an authoritative online solution for restoring any deleted object from Active Directory. The product uses quick, secure, Microsoft supported methods to flexibly restore any Active Directory object. As a result, the tool ensures that Active Directory continues to run during this process and eliminates any need for system downtime.

Step-By-Step Walkthrough

This step-by-step walkthrough takes you through the restore procedure.

Restoring Deleted Active Directory Objects

To restore deleted objects

1. Select **Start | Programs | Quest Software | Quest Object Restore for Active Directory**.
2. Expand **Quest Object Restore for Active Directory**.
3. Select a domain where the objects you want to restore reside.
4. Right-click an object and select **Restore**.
5. Click **OK**.



AFTER YOU RESTORE A USER OR GROUP OBJECT IN ACTIVE DIRECTORY

If you are running Quest Object Restore for Active Directory in a multi-domain forest, you must restore memberships for Domain Local groups in foreign domains (all domains other than the domain the restored object is from).

This ensures the object has complete access to all resources it previously had access to.

To back up and restore object attributes so attributes can be restored along with the object, and for additional recovery features, look at the enterprise version of Quest Software's Active Directory recovery solution. Information on Recovery Manager for Active Directory can be found at <http://www.quest.com/microsoft>.

Quest Object Restore for Active Directory Terminology

Quest Object Restore for Active Directory uses the following terms:

Active Directory (AD)

The Windows 2000/2003 directory service.

Administrative rights

The rights granted to a member of the Administrators local group. This member can perform such actions as creating user accounts, creating groups, and adding group members.

Authentication

The process required to log on to a computer locally. Authentication requires a valid user name and password that exists in the local accounts database. An access token is created if the information provided matches the account in the database.

Console

The interface where you browse your network, manage object properties, schedule data collections and launch reports.

Container object

An object that can logically contain other objects. For example, a folder is a container object.

Domain

In relation to a Microsoft network, a domain is a logical collection of resources consisting of computers, printers, computer accounts, user accounts, and other related objects. The domain also has a system of logon authentication of user accounts and computer accounts.

Domain controller

A server that authenticates domain logon passwords and maintains security policy and the security accounts master database for a domain.

Group

In relation to a Microsoft network, a group is a logical collection of user accounts and/or other groups. Groups of the local or global type are security principals often used for assigning access to resources. Windows 2000 also supports non-security principal groups known as distribution groups.

Node

In a network, a node is a connection point, either a redistribution point or an end point for data transmissions.

Object

A Windows NT entity. Examples include users, groups, and computers. Access rights to objects include create, read, edit, and delete.

Organizational Unit (OU)

A container object used to organize the Active Directory objects logically within a domain.

Permission

A rule associated with an object to regulate access to a particular object on the network. For example, a user may have read and write access to a file on the network.

Root directory

The top-level directory on a computer, a partition, or volume.

Schema

This describes the definition of the Active Directory database, including all classes of objects, their mandatory and optional attributes, and the data types used for storing.

Server

A computer in a network shared by multiple users.