

HP Data Protector A.06.11

Granular Recovery Extension for Microsoft Office SharePoint Server 2007

User guide

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Publication history

Guide updates may be issued between editions to correct errors or document product changes. To ensure that you receive updated or new editions, subscribe to the appropriate product support service. See your HP sales representative for details.

Table 1 Edition history

Part number	Guide edition	Product
N/A	June 2010	HP Data Protector A.06.11 Granular Recovery Extension 1.00

About the guide

Intended audience

This guide is intended for administrators responsible for planning, setting up, and maintaining backups and recovery of Microsoft Office SharePoint Server 2007. It assumes you are familiar with:

- Basic Data Protector functionality
- Microsoft Office SharePoint Server 2007 administration

Document conventions and symbols

Table 2 Document conventions

Convention	Element
Blue text: Table 2 on page 11	Cross-reference links and e-mail addresses
Blue, underlined text: http://www.hp.com	website addresses
Bold text	<ul style="list-style-type: none">• Keys that are pressed• Text typed into a GUI element, such as a box• GUI elements that are clicked or selected, such as menu and list items, buttons, tabs, and check boxes
<i>Italic</i> text	Text emphasis
Monospace text	<ul style="list-style-type: none">• File and directory names• System output• Code• Commands, their arguments, and argument values

Convention	Element
<i>Monospace, italic text</i>	<ul style="list-style-type: none">• Code variables• Command variables
Monospace, bold text	Emphasized monospace text

**NOTE:**

Provides additional information.

**TIP:**

Provides helpful hints and shortcuts.

General Information

General information about HP Data Protector Granular Recovery Extension for Microsoft Office SharePoint Server 2007 can be found at <http://www.hp.com/go/dataprotector>

HP technical support

For worldwide technical support information, see the HP support website:

<http://www.hp.com/support>

Before contacting HP, collect the following information:

- Product model names and numbers
- Technical support registration number (if applicable)
- Product serial numbers
- Error messages
- Operating system type and revision level
- Detailed questions

Subscription service

HP recommends that you register your product at the Subscriber's Choice for Business website:

<http://www.hp.com/go/e-updates>

After registering, you will receive e-mail notification of product enhancements, new driver versions, firmware updates, and other product resources.

HP websites

For additional information, see the following HP websites:

- <http://www.hp.com>
- <http://www.hp.com/go/storage>
- <http://www.hp.com/support/manuals>
- <http://www.hp.com/support/downloads>

Documentation feedback

HP welcomes your feedback.

To make comments and suggestions about product documentation, please send a message to DP.DocFeedback@hp.com. All submissions become the property of HP.

1 Introduction

This document describes the HP Data Protector Granular Recovery Extension for Microsoft Office SharePoint Server 2007 (**HP Data Protector Granular Recovery Extension**).

Backup

It is assumed that Microsoft Office SharePoint Server 2007 data is being backed up using one of the following backup solutions:

- HP Data Protector script solution for Microsoft Office SharePoint Server 2007 and SharePoint Server 2010
- HP Data Protector Microsoft SQL Server integration
- HP Data Protector Microsoft Volume Shadow Copy Service integration
- HP Data Protector Microsoft Volume Shadow Copy Service ZDB integration

Recovery

The main advantage of the HP Data Protector Granular Recovery Extension is **recover granularity**.

The smallest object that you can restore with the original backup solution is a Microsoft SQL Server database (**content database**), which may contain data of multiple web sites. In contrast, the smallest object that you can restore with HP Data Protector Granular Recovery Extension is an individual web site item, for example, a Calendar item, Tasks item, Team Discussion item, or a document.

2 Installation

This chapter describes how to install HP Data Protector Granular Recovery Extension.

Support matrix

Supported environments	Supported operating systems
Microsoft Office SharePoint Server 2007: <ul style="list-style-type: none">• 32-bit• 64-bit (x64)	Windows Server 2003: <ul style="list-style-type: none">• 32-bit• 64-bit (x64) Windows Server 2008: <ul style="list-style-type: none">• 32-bit• 64-bit (x64)
Microsoft SQL Server 2005: <ul style="list-style-type: none">• 32-bit• 64-bit (x64)	
Microsoft SQL Server 2008: <ul style="list-style-type: none">• 32-bit• 64-bit (x64)	
Supported backup solutions	
<ul style="list-style-type: none">• HP Data Protector A.06.11	
Supported web browsers	
<ul style="list-style-type: none">• Windows Internet Explorer 7 and 8• Mozilla Firefox 3.0 and newer minor versions	

Prerequisites

Microsoft SQL Server packages

Install the following packages for Microsoft SQL Server 2005 or Microsoft SQL Server 2008:

- Microsoft SQL Server Native Client
- Microsoft Core XML Services (MSXML) 6.0
- Microsoft SQL Server 2008 Management Objects Collection

These packages must be installed on all the Microsoft Office SharePoint Server systems that have at least one of the following services enabled:

- Central Administration
- Windows SharePoint Services Web Application

You can download the packages from the web site: <http://www.microsoft.com/downloads/en/default.aspx>.

Search for **Feature Pack for Microsoft SQL Server 2008**.

HP Data Protector

Ensure you installed HP Data Protector as described in:

- *HP Data Protector script solution for Microsoft Office SharePoint Server 2007 and SharePoint Server 2010 white paper*
- *HP Data Protector integration guide for Microsoft applications: SQL Server, SharePoint Portal Server, Exchange Server, and Volume Shadow Copy Service*
- *HP Data Protector zero downtime backup integration guide*

In addition, ensure that the Data Protector `User Interface` component is installed on all Microsoft Office SharePoint Server systems that have at least one of the following services enabled:

- Central Administration
- Windows SharePoint Services Web Application

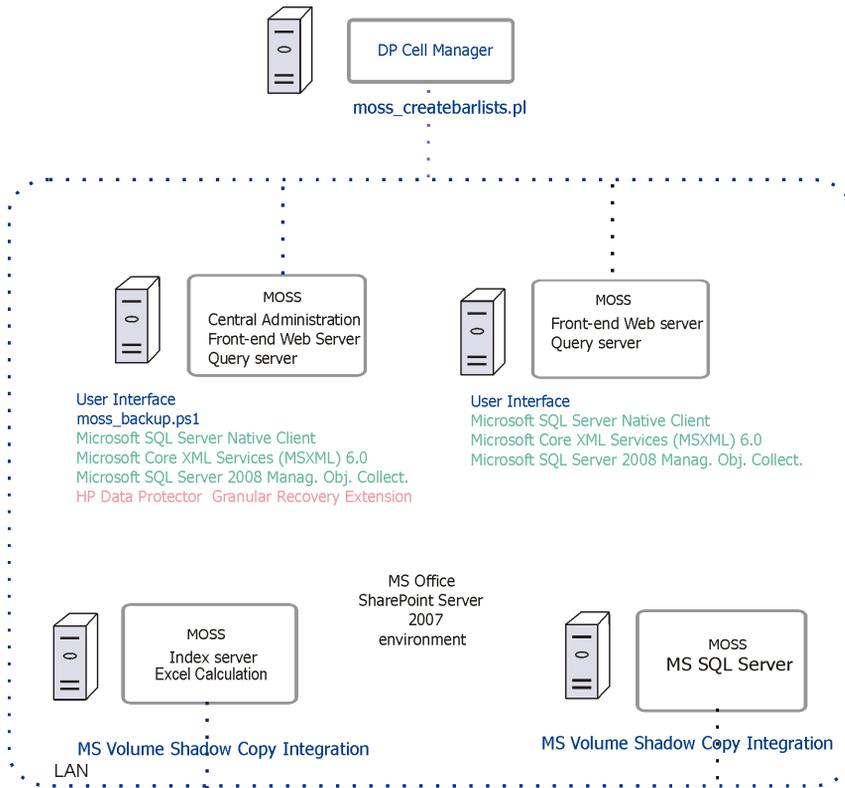


Figure 1 Installing a medium farm that uses the HP Data Protector Microsoft Office SharePoint Server script solution (an example)

In Figure 1, the HP Data Protector components are colored blue, the Microsoft SQL Server install packages are green, and the HP Data Protector Granular Recovery Extension component red.

Procedure

1. Log on to the Microsoft Office SharePoint Server Central Administration system under a Microsoft Office SharePoint Server **Farm Administrator** user account.
2. Run `Setup.exe` to install the HP Data Protector Granular Recovery Extension solution.

Windows Server 2008: Do not forget to run `Setup.exe` with administrative rights if you have Windows UAC enabled (right-click **Setup.exe** > **Run as Administrator**). When the User Account Control dialog box is displayed, click **Allow**.

3. The HP Data Protector Granular Recovery Extension setup wizard is displayed. Click **Next**.
4. On the System Check page, click **Next**.

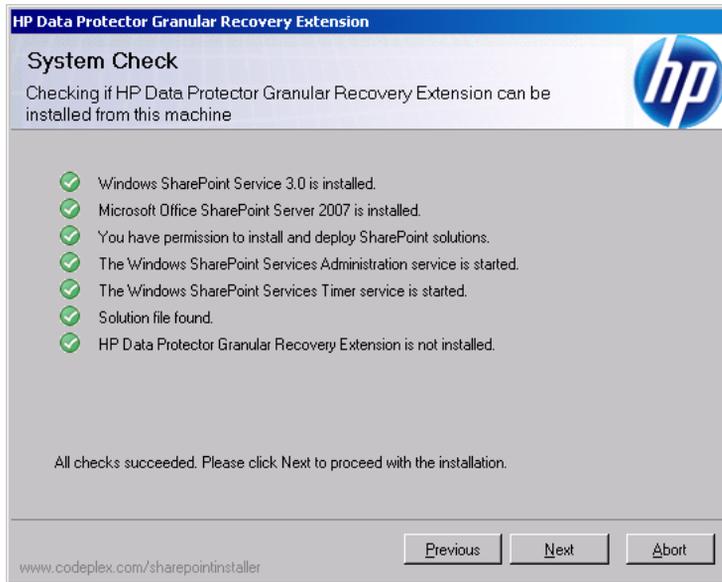


Figure 2 System Check page

5. On the End-User License Agreement page, select **I accept the terms in the License Agreement** and click **Next**.

6. On the Farm Deployment Targets page, click **Next**:

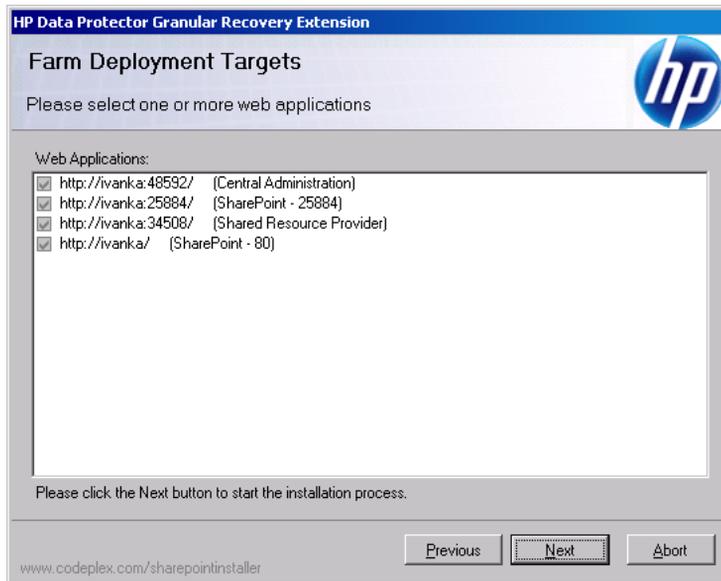


Figure 3 Farm Deployment Targets page

7. The Installing page is displayed. When the installation completes, click **Next**.
8. On the Installation Successfully Completed page, click **Close**.



NOTE:

Keep the installation package. This package is a prerequisite for the removal procedure. If the installation package is not on your system anymore, you can remove HP Data Protector Granular Recovery Extension using the Microsoft Office SharePoint Server command line tool: `stsadm`. For details, see Troubleshooting section [“HP Data Protector Granular Recovery Extension cannot be removed”](#) on page 63.

3 Configuration

Verifying the configuration of the Recovery Web Application

Procedure

1. Open the Central Administration web page and click the **Application Management** tab.
2. Under Application Security, click **Authentication providers** and click **Default**.
3. Ensure that the settings for the Recovery Web Application are the same as the default settings of the Central Administration Application.

Configuring HP Data Protector user rights

Procedure

1. Open the Data Protector GUI (**Data Protector Manager**).
2. In the Context list, select **Users**.

3. Ensure the user account under which the Windows SharePoint Services Timer service is running is assigned the Data Protector Start restore and See private objects user rights.

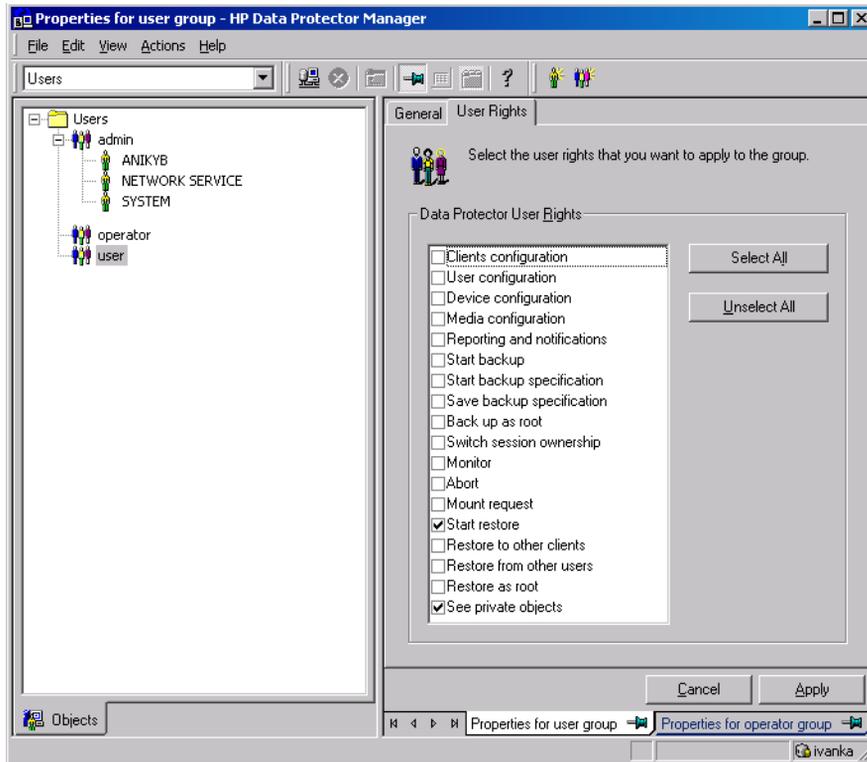


Figure 4 Data Protector user rights



NOTE:

The `See private objects` user right is useful in case you created your backup specification configured with access type private, and backup object owner. This is either the account under which the backup was executed or the account specified in the Ownership **Backup Option**. If this user account is different the user account under which the Windows SharePoint Services Timer service is running, the private backup objects are not accessible in the Recovery Cache Management.

Configuring Data Protector backup specifications

To prevent Data Protector from backing up content databases that are in the Granular Recovery Cache Management (in other words, to prevent Data Protector from backing up the same content databases twice), proceed with the following, depending on your configuration:

- If the same Microsoft SQL Server instance is used by both Microsoft Office SharePoint Server and HP Data Protector Granular Recovery Extension:

When you create backup specifications, select individual content databases, and not the client, Microsoft SQL Server instance, or Microsoft Volume Shadow Copy Writer.

The content databases restored by HP Data Protector Granular Recovery are named *OriginalName_DataProtectorSessionID*.

See [Figure 5](#) on page 26.

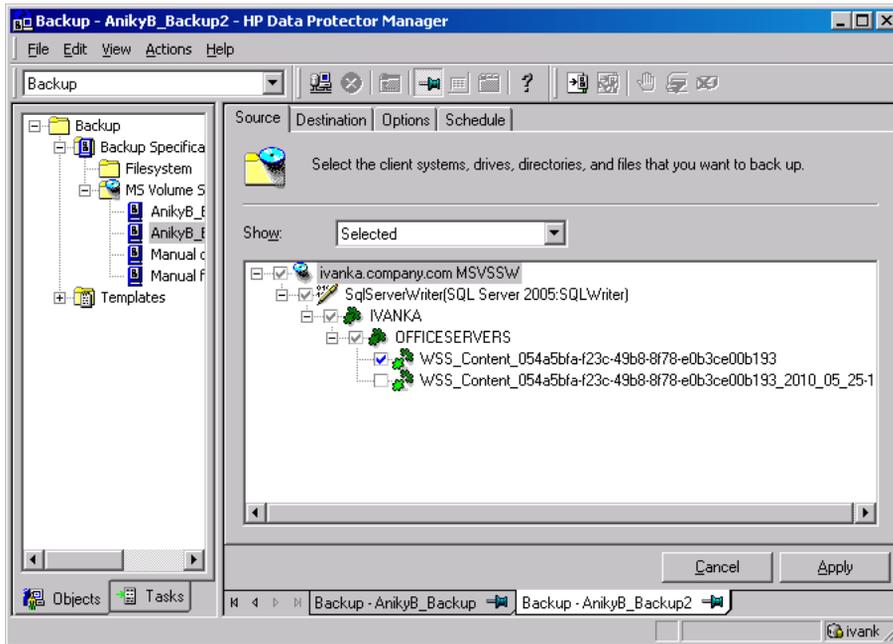


Figure 5 Selecting content databases



NOTE:

If you have a backup specification with individual content databases selected, each time a Farm Administrator adds a new content database, you need to include the newly-added content database in the backup specification.

- If a separate Microsoft SQL Server instance is used for granular recovery purposes, specify this system as the destination Microsoft SQL Server for the Import From Backup procedure.
Ensure that this system is excluded from the backup specification.

Verifying the configuration of Internet Information Services application pools

The same Microsoft Office SharePoint Server user account is used by both the **Recovery Web Application** and **SharePoint Central Administration v3** application pools.

To be able to recover items to a filesystem, verify if the user specified in these application pools is granted enough permission. Ensure this user is granted full control of the filesystem.

To verify which user account is configured in the **Recovery Web Application** or **SharePoint Central Administration v3** application pools:

1. Connect to the Microsoft Office SharePoint Server Central Administration system.
2. In the Start menu, click **Control Panel, Administrative Tools, and Internet Information Services (IIS) Manager**.
3. Depending on the operating system version, proceed as follows:

Windows Server 2008:

- a. Open the Application Pools page.
- b. Right-click an application pool and click **Advanced Settings**.
- c. Under Process Model, verify the **Identity** of the Microsoft Office SharePoint Server user account.

Windows Server 2003:

- a. Expand **Application Pools**.
- b. Right-click an application pool and click **Properties**.
- c. Click the **Identity** tab, select the **Configurable** option, and verify the selected Microsoft Office SharePoint Server user account.

4 Backup

Back up Microsoft Office SharePoint Server data as described in your backup solution documentation.

For more information on the HP Data Protector backup solutions, see:

- *HP Data Protector script solution for Microsoft Office SharePoint Server 2007 and SharePoint Server 2010 white paper*
- *HP Data Protector integration guide for Microsoft applications: SQL Server, SharePoint Portal Server, Exchange Server, and Volume Shadow Copy Service*
- *HP Data Protector zero downtime backup integration guide*

5 Recovery

Each site has its data stored in a Microsoft SQL Server database (**content database**). Therefore, to recover site items, follow this basic procedure:

1. Import

a. Restore

Restore the content database from backup to a temporary location on a Microsoft SQL Server system.

b. Mount

Present the restored content database (**recovery content database**) to the Microsoft Office SharePoint Server. This creates a temporary site (**recovery site**).

2. Recover

Transfer site items from the recovery site to the original site, or to another location of your choice.

3. Dismount

Dismount the recovery content database from the Microsoft Office SharePoint Server. Optionally, delete the database from the disk.

Opening the HP Data Protector Granular Recovery Extension GUI

Procedure

1. Log on to the Microsoft Office SharePoint Server Central Administration system under a Microsoft Office SharePoint Server **Farm Administrator** user account.

2. Connect to the Central Administration web page, click the **Operations** tab, and look for **HP Data Protector Granular Recovery Extension**:

HP Data Protector Granular Recovery Extension

- ▣ Granular Recovery Cache Management
- ▣ Granular Recovery Job Status
- ▣ Granular Recovery Settings

Figure 6 HP Data Protector Granular Recovery Extension links

3. Click **Granular Recovery Cache Management**. The Recovery Cache Management page is displayed.

The Granular Recovery Cache shows which recovery content databases are currently mounted to the Microsoft Office SharePoint Server. In the beginning, the Granular Recovery Cache is empty. See [Figure 7](#) on page 32.

Central Administration
Recovery Cache Management

Content of the Recovery Cache.

[Import From Backup](#) |
 [Import From Filesystem](#) |
 [Import Job Status](#)

Content Databases

No content database available in recovery cache.

Sites

Figure 7 Recovery Cache Management (empty)

[Figure 8](#) on page 32 shows available functionality of the Recovery Cache Management when a content database is already mounted. For a high-level description of the functionality, see [Table 3](#) on page 33.

Central Administration
Recovery Cache Management

Content of the Recovery Cache.

[Import From Backup](#) |
 [Import From Filesystem](#) |
 [Remove From Recovery Cache](#) |
 [Import Job Status](#) |
 [Start Recovery](#)

Content Databases

Content Database	Backup Version	Content Database Size	Added	Removed At	Added By
W55_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193	2010/05/25-1	23.8 MB	6/7/2010 10:48:59 AM	6/28/2010 10:48:59 AM	H5L\anikyb

Sites

Original Site URL	Recovery Site URL
http://ivanka:25884/sites/AnikyB	http://ivanka:38000/sites/AnikyB
http://ivanka:25884/sites/GRE	http://ivanka:38000/sites/GRE
http://ivanka:25884/sites/NewPage	http://ivanka:38000/sites/NewPage

Figure 8 Recovery Cache Management with a content database mounted

Table 3 Granular Recovery cache management

<ul style="list-style-type: none"> • Import From Backup If you have backed up your content database with an HP Data Protector backup solution, use Import From Backup to restore the database to a temporary location and to mount the database to the Microsoft Office SharePoint Server. For details, see “Importing content databases from backup” on page 34. 	<ul style="list-style-type: none"> • Import From Filesystem If you have restored the content database to the filesystem, use Import From Filesystem to mount the content database to the Microsoft Office SharePoint Server. For details, see “Importing content databases from the filesystem” on page 37.
<ul style="list-style-type: none"> • Import Job Status This enables you to monitor import jobs (importing a content database from backup or from filesystem) status. For details, see Monitoring granular recovery import jobs, page 50. 	<ul style="list-style-type: none"> • Remove from Recovery Cache This dismounts a recovery content database from the Microsoft Office SharePoint Server (removes the content database from the Granular Recovery Cache) and removes the database files from the disk. For details, see “Removing content databases from the cache” on page 50.
<ul style="list-style-type: none"> • Start Recovery Use this to browse and recover objects that are stored in a recovery content database. Note that this is also available from the original site: Site Actions > Site Settings > Granular Recovery. For details, see “Executing Perform content recovery tasks” on page 40 and “Recovering site items” on page 41. 	<ul style="list-style-type: none"> • Original Site URL The link to the original site. • Recovery Site URL The link to the recovery site.

Importing content databases from backup

Prerequisites

On the destination Microsoft SQL Server system, you need enough disk space for the content database that you want to import.

Procedure

1. On the Recovery Cache Management page, click **Import From Backup**. The Site Collection Selection page is displayed. Select the content database of the site you want to recover and click **Continue**.

Central Administration
Site Collection Selection

Select the content database that you want to recover from.

[→ Continue](#)

Site URL	Site Name	Content Database	Web Application Name
http://ivanka:25884/	sites/AnikyB	WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193	SharePoint - 25884
http://ivanka:34508/	ssp/admin	SharedServicesContent_6f77cb07-507c-4ac0-b77a-cbd32908d2df	SharePoint - 34508
http://ivanka/		WSS_Content_0749b785-87e2-40cf-adb7-f9916999d083	SharePoint - 80
http://ivanka/	MySite	WSS_Content_0749b785-87e2-40cf-adb7-f9916999d083	SharePoint - 80
http://ivanka/	personal/igorl	WSS_Content_0749b785-87e2-40cf-adb7-f9916999d083	SharePoint - 80
http://ivanka/	personal/miranf	WSS_Content_0749b785-87e2-40cf-adb7-f9916999d083	SharePoint - 80
http://ivanka/	personal/mkravo	WSS_Content_0749b785-87e2-40cf-adb7-f9916999d083	SharePoint - 80
http://ivanka:48592/		SharePoint_AdminContent_b41aa5ef-e4b0-4e16-9f0f-f0b604097e15	

Figure 9 Site Collection Selection page

2. On the Backup Version Selection page, select the content database version that you want to restore and click **Continue**.

Central Administration

Backup Version Selection

Select the content database version for the site <http://ivanka:25884/sites/AnikyB>.

→ Continue

Name	Created Date	Size	Type	Method	Media
2010/05/03-2	5/3/2010 11:59:45 AM	22.3 MB	Full	MSVSS	TAPE
2010/04/23-2	4/23/2010 2:33:28 PM	22.3 MB	Full	MSVSS	TAPE
2010/04/20-4	4/20/2010 4:38:38 PM	22.3 MB	Full	MSVSS	TAPE
2010/04/20-1	4/20/2010 11:46:35 AM	22.3 MB	Full	MSVSS	TAPE
2010/04/15-13	4/15/2010 2:15:37 PM	21.7 MB	Full	MSVSS	TAPE

Figure 10 Backup Version Selection page

3. The Content Database Recovery page is displayed:

Central Administration

Content Database Recovery

Click **Import Content Database** to start import of content database W55_Content_054a5bfa-f23c-49b8f78-e0b3ce00b193 version 2010/05/25-1.

▶ Import content database

Restore Settings

SQL Server:

Restore path:

Figure 11 Content Database Recovery page

In the **SQL Server** drop-down list, select the destination Microsoft SQL Server instance. You can change the default restore location by specifying a new path. The default is C:\Restore.

 **NOTE:**

If your Microsoft SQL Server is configured in a cluster, ensure that the restore location resides on the Microsoft SQL Server cluster shared disk.

Click **Import content database**.

- Optionally, to monitor job status, click **Continue**. The Granular Recovery Import Job Status page is displayed:

Central Administration
Granular Recovery Import Job Status

Click **Refresh** to update jobs list.

[Refresh](#) | [Clear History](#) [Recovery Cache Management](#)

Active

ID	Name	Started By	Started	Ended	Details
5d0a18a4-90c1-46bb-900a-a9902de2bbad	gr-job-restore-recovery-database_WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193_2010/05/13-4	HSL\anikyb			None

Figure 12 Monitoring job status

- Click **Recovery Cache Management** to return to that page.

The content database is mounted to the Microsoft Office SharePoint Server.

Central Administration
Recovery Cache Management

Content of the Recovery Cache.

[Import From Backup](#) | [Import From Filesystem](#) | [Remove From Recovery Cache](#) | [Import Job Status](#) | [Start Recovery](#)

Content Databases

Content Database	Backup Version	Content Database Size	Added	Removed At	Added By
WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193	2010/05/25-1	23.8 MB	6/7/2010 10:48:59 AM	6/28/2010 10:48:59 AM	HSL\anikyb

Sites

Original Site URL	Recovery Site URL
http://ivanka:25884/sites/AnikyB	http://ivanka:38000/sites/AnikyB
http://ivanka:25884/sites/GRE	http://ivanka:38000/sites/GRE
http://ivanka:25884/sites/NewPage	http://ivanka:38000/sites/NewPage

Figure 13 Recovery Cache Management

NOTE:

Once the content database is mounted to the Microsoft Office SharePoint Server, a **Perform content recovery** task is assigned to the Site Collection Administrator.

For details, see “[Executing Perform content recovery tasks](#)” on page 40.

Importing content databases from the filesystem

Prerequisites

- The content database must be restored to the filesystem.
- The user account under which the Windows SharePoint Services Timer service is running must be granted full control permission for the content database.

Considerations

- The Microsoft SQL Server Database Primary Data Files and all transaction log files cannot be imported from a network share.
- If a site already exists in the Recovery Cache Management, and you perform an Import From Filesystem session for the same site, the new URL is:
 - `http://computer.company.com:38000/OriginalNameSequenceNumber`
 - `http://computer.company.com:25884/SequenceNumber`
(root site)
- If the original site does not exist in the Recovery Cache Management, the site URL does not change.
- If a root site does not exist, the Recovery Cache Management uses an empty string during the restore session, the URL of the root site changes to:
`http://computer.company.com:25884/SequenceNumber`

Procedure

1. On the Recovery Cache Management page, click **Import From Filesystem**.

2. On the Enter content database data page, specify the location of the Microsoft SQL Server Database Primary Data File *AbsolutePath.mdf* and all transaction log files *AbsolutePath.ldf*. Click **Add**.

Click **Continue**.

Central Administration
Enter content database data

Specify database files

→ Continue

Database File Location

Database file path: Add

Database Files

File path	
C:\Restore\2010-05-18-5\C\Program Files (x86)\Microsoft Office Servers\12.0\Data\MSSQL.1\MSSQL\Data\WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193.mdf	Remove
C:\Restore\2010-05-18-5\C\Program Files (x86)\Microsoft Office Servers\12.0\Data\MSSQL.1\MSSQL\Data\WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193_log.LDF	Remove

Figure 14 Specifying content database files

3. In the **SQL Server** drop-down list, select the destination Microsoft SQL Server instance.

Central Administration
Import content database

Click **Import content database** to start import.

▶ Import content database

Import Settings

SQL server:

Database name:

Version:

Figure 15 Importing a content database from filesystem

The content database name and version are filled in automatically. Optionally, you can edit the database's name and version to better suit your needs.

Click **Import content database**.

- Optionally, to monitor job status, click **Continue**.

The Granular Recovery Import Job Status page is displayed:

Central Administration
Granular Recovery Import Job Status

Click **Refresh** to update jobs list.

Refresh | Clear History | Recovery Cache Management

Active

ID	Name	Started By	Started	Ended	Details
5d0a18a4-90c1-46bb-900a-a9902de2bbad	gr-job-restore-recovery-database_WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193_2010/05/13-4	HSL\anikyb			None

Figure 16 Monitoring job status

- Click **Recovery Cache Management** to return to that page.

The content database is mounted to the Microsoft Office SharePoint Server.

Central Administration
Recovery Cache Management

Content of the Recovery Cache.

Import From Backup | Import From Filesystem | Remove From Recovery Cache | Import Job Status | Start Recovery

Content Databases

Content Database	Backup Version	Content Database Size	Added	Removed At	Added By
WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193	2010/05/25-1	23.8 MB	6/7/2010 10:48:59 AM	6/28/2010 10:48:59 AM	HSL\anikyb

Sites

Original Site URL	Recovery Site URL
http://ivanka:25884/sites/AnikyB	http://ivanka:38000/sites/AnikyB
http://ivanka:25884/sites/GRE	http://ivanka:38000/sites/GRE
http://ivanka:25884/sites/NewPage	http://ivanka:38000/sites/NewPage

Figure 17 Recovery Cache Management

NOTE:

Once the content database is mounted to the Microsoft Office SharePoint Server, a Perform content recovery task is assigned to the Site Collection Administrator.

For details, see “[Executing Perform content recovery tasks](#)” on page 40.

Executing Perform content recovery tasks

Prerequisites

- The content database must be mounted to the Microsoft Office SharePoint Server, by [Importing content databases from backup](#), page 34 or by [Importing content databases from the filesystem](#), page 37.
- You must be a **Site Collection Administrator** of the site you want to recover.

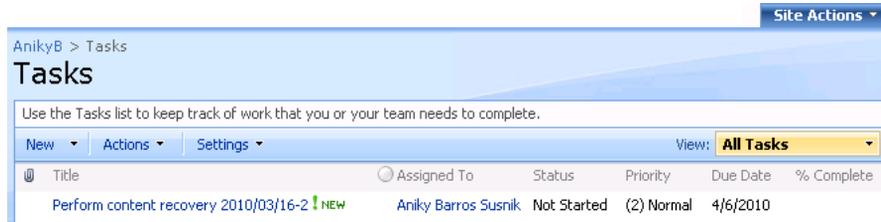


Figure 18 Perform content recovery task

Site Actions ▾

AnikyB > Tasks > Perform content recovery 2010/03/16-2

Tasks: Perform content recovery 2010/03/16-2

Close

[New Item](#) |
 [Edit Item](#) |
 [Delete Item](#) |
 [Manage Permissions](#) |
 [Alert Me](#)

Title	Perform content recovery 2010/03/16-2
Priority	(2) Normal
Status	Not Started
% Complete	
Assigned To	Aniky Barros Susnik
Description	Perform granular recovery at http://ivanka:25884/sites/AnikyB/_layouts/GranularRecovery/Recovery.aspx?SiteID=http://ivanka:25884/sites/AnikyB
Start Date	3/16/2010
Due Date	4/6/2010

Created at 3/16/2010 10:17 AM by System Account
 Last modified at 3/16/2010 10:17 AM by System Account

Close

Figure 19 Perform content recovery link

Procedure

1. Click the link in the Perform content recovery task. The Browse and Select Objects page is displayed.
2. Proceed with the step 2 of the procedure “[Recovering site items](#)” on page 41.

Recovering site items

Prerequisites

- On all the front-end Web Server systems, you need enough disk space for the site items that you plan to recover. The default location is `C:\Recovery`. To change the default path, see “[Changing HP Data Protector Granular Recovery Extension settings](#)” on page 51.
- You must be a **Site Collection Administrator** of the site you want to recover.
- The recovery content database must be mounted to the Microsoft Office SharePoint Server.
- If the original site no longer exists, ensure that you create a blank site and use the **Overwrite Existing** recovery mode. You must be a **Farm Administrator** of the site you want to recover in the Recovery Cache Management. If you have a sub

site in the recovered site, quick links, top navigation bar are relocated at the end of the lists.

Considerations

- If the data to be recovered already exists at the destination, depending on the recovery mode, note the following:
 - **Rename if Exists:** Files, folders, and items are recovered with different names, *OriginalName_MOSSGR_Timestamp*. For example, suppose that on November 17, 2009 at 10:59:35 you start a recovery of the file `wizard.txt`. The file is recovered with the name `wizard_MOSSGR_20091117-105935.txt`.
 - **Leave Existing:** Files, folders, and items are not recovered.
 - **Overwrite Existing:** Files, folders, and items are recovered with the original names, replacing the existing. For example, the existing Microsoft Office SharePoint Server items (Document Library) are overwritten with those from the backup data. Only lists and sites are not overwritten.
- If the data to be recovered does not exist at the destination, it is recovered with the original name.
- If the List items (Announcement, Contact, Link, Calendar, or Task) are recovered to other location, or to other farm twice, depending on the recovery mode:
 - **Overwrite Existing:** the List items are duplicated with the same names and different IDs. Delete the items with the same names.
 - **Rename if Exists:** the List items are renamed even though these kinds of items do not support renaming.
- If discussion items, with attachments and replies, or surveys with responses are recovered with the **Overwrite Existing** recovery mode, the items are overwritten but the attachments, replies, or responses are not recovered. To avoid data loss, delete the attachments, replies, or responses before starting your recovery session.
- Multiple recovery sessions can be performed in parallel, except if the same items are selected for recovery.
- Multiple farm administrators and site collection administrators can browse objects in parallel.

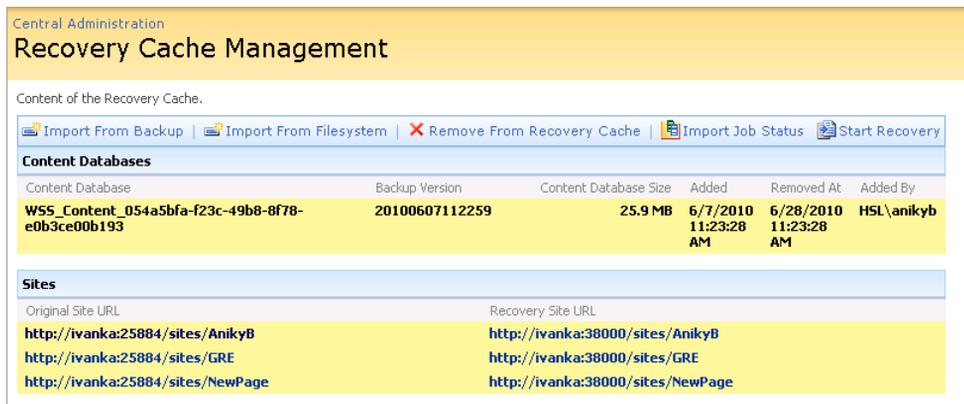
Procedure

1. On the Recovery Cache Management page, select the content database and the sites you want to recover. Note that a content database may contain data of multiple sites.

TIP:

To recover items from multiple sites, hold **Ctrl** while selecting specific sites under **Sites**, and then click **Start Recovery**.

You can also hold **Shift** while selecting a group of sites under **Sites**, and then click **Start Recovery**.



Central Administration
Recovery Cache Management

Content of the Recovery Cache.

[Import From Backup](#) | [Import From Filesystem](#) | [Remove From Recovery Cache](#) | [Import Job Status](#) | [Start Recovery](#)

Content Databases					
Content Database	Backup Version	Content Database Size	Added	Removed At	Added By
WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193	20100607112259	25.9 MB	6/7/2010 11:23:28 AM	6/28/2010 11:23:28 AM	HSL\anikyb

Sites	
Original Site URL	Recovery Site URL
http://ivanka:25884/sites/AnikyB	http://ivanka:38000/sites/AnikyB
http://ivanka:25884/sites/GRE	http://ivanka:38000/sites/GRE
http://ivanka:25884/sites/NewPage	http://ivanka:38000/sites/NewPage

Figure 20 Selecting a content database and multiple sites for recovery

NOTE:

Alternatively, you can start a recovery session:

- By connecting to the original web site. In the **Site Actions** menu, select **Site Settings**. On the Site Settings page, look for HP Data Protector Granular Recovery Extension. Click **Granular Recovery**.
- By performing site tasks. For details, see “[Executing Perform content recovery tasks](#)” on page 40.

2. On the Browse and Select Objects page, select the site items that you want to recover.

Central Administration

Browse and Select Objects

Select items for recovery.

→ Continue [Advanced Search](#) | [List View](#)

Search Criteria

Search keywords:

Search Results

Name	Created By	Size
AnikyB	Aniky Barros Susnik	720.6 KB
<input checked="" type="checkbox"/> Announcements	System Account	11.9 KB
<input type="checkbox"/> Reporting Templates	System Account	117.9 KB
<input type="checkbox"/> Shared Documents	System Account	131.3 KB
<input checked="" type="checkbox"/> Tasks	System Account	24.9 KB
<input type="checkbox"/> User Information List	Mitja Kravos	7.8 KB
<input type="checkbox"/> Calendar	System Account	17.1 KB
<input type="checkbox"/> Form Templates	System Account	74.7 KB
<input type="checkbox"/> Links	System Account	11.9 KB
<input type="checkbox"/> My Documents	Aniky Barros Susnik	43.1 KB
<input type="checkbox"/> Team Discussion	System Account	17.1 KB

Figure 21 Selecting site items



NOTE:

All items can be previewed by clicking on the item name.



TIP:

To select multiple list view items, hold **Ctrl** while selecting specific items. Alternatively, you can hold **Shift** while selecting a group of items.

Central Administration

Browse and Select Objects

Select items for recovery.

→ Continue Quick Search | List View

Search Criteria

Find documents with...

All of these words:

The exact phrase:

Any of these words:

None of these words:

Narrow the search...

Result type:

Add property restrictions...

Where the Property... Equals [Add Property...](#)

Figure 22 Advanced search



TIP:

You can filter the items using the **Advanced search**. For example, in **Result type**, select **Microsoft Office Word documents**. In **Add properties restriction**, select a property and click **Search**.

For details about the advanced and quick search, see the *Microsoft SharePoint Server Help*.

To select multiple list view items, hold **Ctrl** while selecting specific items. Alternatively, you can hold **Shift** while selecting a group of items.

Click **Continue**.

3. On the Recovery Objects page, the selected site items are displayed.

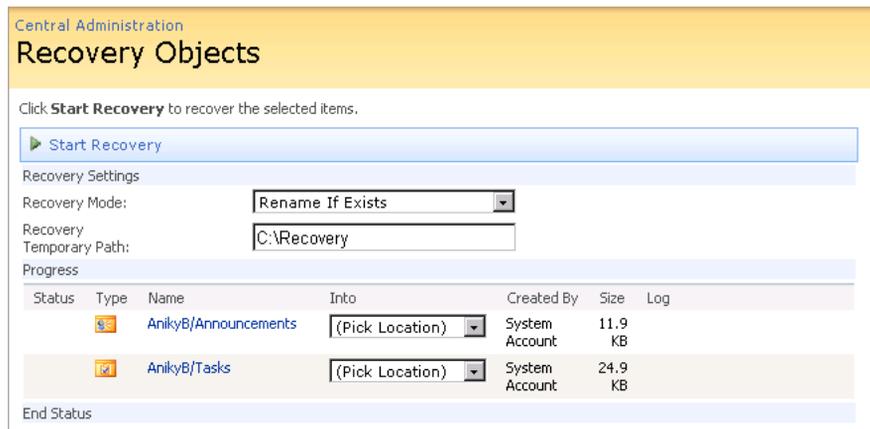
 **NOTE:**

The **Recovery mode** drop-down list offers the following options:

- **Rename if Exists:** Items such as files and folders are recovered with a new name *OriginalName_MOSSGR_Timestamp*.
- **Leave Existing:** Items are not recovered, the existing items remain the same in the target location.
- **Overwrite Existing:** Recovered items replace the existing items.

 **TIP:**

When recovering recurring events, for example, weekly team meetings in Calendars, before selecting the **Overwrite Existing** recovery mode, ensure the deletion of all the recurring events.



Central Administration
Recovery Objects

Click **Start Recovery** to recover the selected items.

[Start Recovery](#)

Recovery Settings

Recovery Mode:

Recovery Temporary Path:

Progress

Status	Type	Name	Into	Created By	Size	Log
		AnikyB/Announcements	<input type="text" value="(Pick Location)"/>	System Account	11.9 KB	
		AnikyB/Tasks	<input type="text" value="(Pick Location)"/>	System Account	24.9 KB	

End Status

Figure 23 Recovering site items

The **Temporary Path** option specifies which location on your Microsoft Office SharePoint Server system to use for recovery.

 **NOTE:**

The **Into** drop-down list specifies the restore destination:

- **Original Location:** The item is recovered to the original location in the original site.
 - **Other Location:** The item is recovered to a different site or a different location in the original site. Use this location, if the original site no longer exists.
 - **Other Farm:** The item is recovered to a different destination farm.
 - **Filesystem:** The item is recovered to a directory in your filesystem. This option is available only for files and folders.
-

- If you select **Other Location**, the Recovery to other location dialog box is displayed.

Figure 24 Recovering site items to another location

In the Site drop-down list, select the destination site.

If you select the **Apply to all items of the same type** option, items of the same type (for example, calendar items) are recovered to the same location.

Click **OK**.

 **TIP:**

The sites listed in the Recovery to other location dialog box are those for which you have enough permission. For example, if you are a Site Collection Administrator, you need to be granted the read configuration database right.

- If you select **Other Farm**, the Recovery to other farm dialog box is displayed.

Figure 25 Recovering site items to another farm

Specify the destination farm and which Windows domain user account to use.

If you select the **Apply to all items of the same type** option, items of the same type (for example, calendar items) are recovered to the same farm.

Click **Connect**.

- If you select **Filesystem**, the Recovery to Filesystem dialog box is displayed.

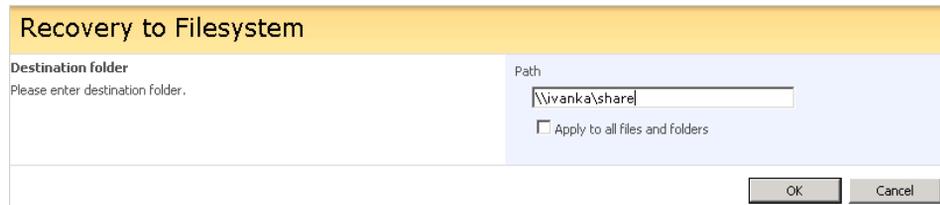


Figure 26 Recovering site items to a network share

In **Path**, specify the destination directory.

When specifying a network share as a destination, ensure that:

- Read, write, and change permissions are granted to the user that starts the recovery session.
- All necessary permissions are granted to the network share. Grant the same permissions specified for the user account configured in the **Web Recovery Application** and **SharePoint Central Administration v3** application pools. For details, see [“Verifying the configuration of Internet Information Services application pools”](#) on page 26.
- The share is accessible from the system where the Windows SharePoint Services Web Application is running, in which the recovery session was started.

When specifying a folder as a destination, ensure that:

- The folder is accessible from the system where the Windows SharePoint Services Web Application is running.
- Read, write, and change permissions are granted to the user that starts a recovery session.

If you select the **Apply to all files and folders** option, all files and folders are recovered to the same directory.

Click **OK**.

4. Click **Start Recovery**.

Once the recovery completes, you can find the recovered items at the specified destination.

Removing content databases from the cache

Procedure

1. On the Recovery Cache Management page, select which content database to remove, and click **Remove From Recovery Cache**. The Remove From Recovery Cache page is displayed.
2. To keep the content database files on the disk, clear the **Delete files from disk** option.

Click **Remove**.

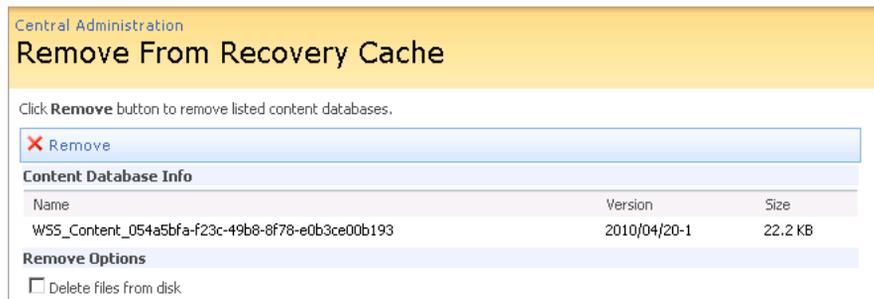


Figure 27 Removing a content database

Monitoring granular recovery import jobs

Procedure

1. Connect to the Central Administration web page, click the **Operations** tab, look for **HP Data Protector Granular Recovery Extension**, and click **Granular Recovery Job Status**. The Granular Recovery Import Jobs page is displayed.

- Once you start a content database import session, HP Data Protector Granular Recovery Extension starts monitoring the import job progress.

Central Administration

Granular Recovery Import Job Status

Click **Refresh** to update jobs list.

Refresh | Clear History | Recovery Cache Management

Active						
ID	Name	Started By	Started	Ended	Details	
5d0a18a4-90c1-46bb-900a-a9902de2bbad	gr-job-restore-recovery-database_WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193_2010/05/13-4	HSL\anikyb				None

History						
Status	ID	Name	Started By	Started	Ended	Details
✓	d3f27f2d-80b9-4ff6-804d-e5b0cd566dd8	gr-job-restore-recovery-database_WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193_2010/05/18-5	HSL\anikyb	5/20/2010 11:56:24 AM	5/20/2010 11:58:32 AM	<ul style="list-style-type: none"> ✓ Checking disk space ✓ Restoring ✓ Mounting ✓ Creating recovery cache remove job ✓ Starting recovery cache content source crawl ✓ Posting recovery tasks to site collection administrators ✓ Setting recovery sites as readonly

Figure 28 Monitoring an import job progress

Optionally, after the recovery job is finished and you no longer need the job statuses, click **Clear History**.

Changing HP Data Protector Granular Recovery Extension settings

During a granular recovery session, a content database is first restored to a temporary location on the selected Microsoft SQL Server system (default: C:\Restore).

Before the site items are recovered, they are copied to a temporary location on a Microsoft Office SharePoint Server system (default: C:\Recovery).

Procedure

1. To change these default locations, connect to the Central Administration web page, click the **Operations** tab, look for **HP Data Protector Granular Recovery Extension**, and click **Granular Recovery Settings**.
2. On the Granular Recovery Settings page, enter a new restore location or temporary recovery location and click **OK**.

Central Administration

Granular Recovery Settings

Use this page to view or change Granular Recovery settings.

Product Version View Granular Recovery Extension version.	Version 1.0.119.1157
Default SQL Server for Import Select default SQL Server for import of content database.	SQL server IVANKA\OfficeServers
Restore Location Specify path on SQL server to which selected content database will be restored during import from backup.	Path C:\Restore Example: c:\Restore
Temporary Location for Recovery Specify path for temporary files created during recovery.	Path C:\Recovery Example: c:\Recovery

OK Cancel

Figure 29 Changing Granular Recovery settings

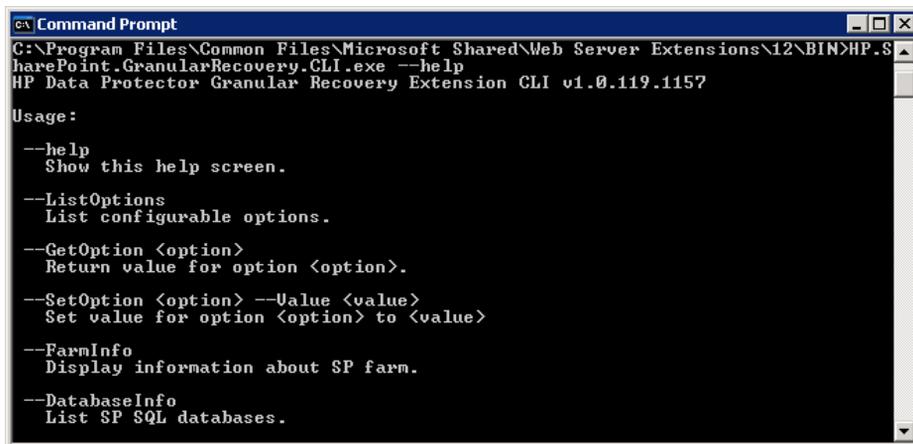
6 Command line reference

Use the `HP.SharePoint.GranularRecovery.CLI.exe` command line tool that is located in:

```
C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\BIN
```

To display descriptions of options and their usage, run:

```
HP.SharePoint.GranularRecovery.CLI.exe --help.
```



```
Command Prompt
C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\BIN>HP.SharePoint.GranularRecovery.CLI.exe --help
HP Data Protector Granular Recovery Extension CLI v1.0.119.1157

Usage:
  --help
    Show this help screen.

  --ListOptions
    List configurable options.

  --GetOption <option>
    Return value for option <option>.

  --SetOption <option> --Value <value>
    Set value for option <option> to <value>

  --FarmInfo
    Display information about SP farm.

  --DatabaseInfo
    List SP SQL databases.
```

Figure 30 Retrieving the command line help

 **NOTE:**

In the examples below, `HP.SharePoint.GranularRecovery.CLI.exe` is omitted for simplicity.

Examples

Restoring a content database from Data Protector backup

- To list all the backup versions of your content database named WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193, specify:
--ListBackupVersions
--ContentDB=WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193

Monitoring jobs progress

- To list all the jobs that have been started of your content database, specify:
--ListJobs
- To start a restore job by importing the content database from the backup version "2010/04/20-4" to the default restore location C:\Restore, specify:
--StartImportJob
--ContentDB WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193
--BackupID "2010/04/20-4" --Server computer
--Instance OFFICESERVERS --TargetLocation C:\Restore
- Suppose you want to start a restore job by importing the content database from a filesystem to the Microsoft Office SharePoint Server to the default restore location C:\Restore.

If the Microsoft SQL Server Database Primary Data File is

WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193.mdf and the SQL Server Transaction log file is

WSS_Content054a5bfa-f23c-49b8-8f78-e0b3ce00b193_log.LDF, specify:

```
--StartImportJob
--ContentDB WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193
--BackupID "2010/04/20-4" --Server computer
--Instance OFFICESERVERS
--Files="C:\Restore\WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193.mdf";"C:\Restore\WSS_Content054a5bfa-f23c-49b8-8f78-e0b3ce00b193_log.LDF"
--TargetLocation C:\Restore
```

Verifying target location disk space size

- To check the available disk space on the default restore location C:\Restore, specify:

```
--QueryServerInfo --Server computer --Instance OFFICESERVERS  
--TargetLocation C:\Restore
```

This also lists the location of all content database files in the tree structure.

Listing content databases

- To list all content databases in the Recovery Cache including the backup versions, specify:

```
--ListCache --All
```
- To list detailed information of the content databases, specify:

```
--ListCache --Verbose
```

Removing restore jobs

- To delete all the restore job statuses, specify:

```
--DeleteAllJobs Confirm
```
- To delete a specific restore job, specify:

```
--DeleteJob=JobID
```

Recovering a site item to the original site

- Suppose you want to recover the site item `/Shared Documents/Document.txt` that was backed up from the site `http://computer.company.com:25884/sites/AnikyB`. Suppose the recovery site is `http://computer.company.com:38000/sites/AnikyB`. To recover the item to the original location, specify:

```
--Recover  
--Source http://computer.company.com:38000/sites/AnikyB  
--Destination http://computer.company.com:25884/sites/AnikyB  
--TempLocation="C:\Recovery"  
--Items "/Shared Documents/Document.txt"
```

The recovery session finishes and the following message is displayed:

```
recovery ended, object status:
object: [/Shared Documents/Document.txt]
destination: [/Shared Documents/Document_MOSSGR_24032010-024302.txt]
status: Finished
status details: [recovered to [http://computer.company.com:
25884/sites/AnikyB//Shared Documents]]
```

Recovering a site item to another location

- To recover the site item `"/Shared Documents/Document.txt"` to My Documents, specify:

```
--Recover
--Source http://computer.company.com:38000/sites/AnikyB
--Destination http://computer.company.com:25884/sites/AnikyB
--TempLocation="C:\Recovery"
--Items "/Shared Documents/Document.txt:/My Documents"
```

Removing content databases from the cache

- To remove a database from the cache, specify:

```
--RemoveFromCache --ContentDB DatabaseName
```
- To remove all the content databases from the cache, specify:

```
--RemoveFromCache --All
```

Removing content databases from the disk

- To delete a content database from the disk after you have removed it from the cache, specify:

```
--RemoveFromCache --ContentDB DatabaseName --DeleteFiles
```

Exporting items from a content database

- To export an item from a content database, specify:

```
--Export --Source source --Location path
--Item item
```
- To export items from a content database, specify:

```
--Export --Source source --Location path
--Items item1 item2 item3
```

Listing exported items

- To list the exported items, specify:
`--ListExport --Location`

Importing items from a content database

- To import an item from a content database, specify:
`--Import --Destination destination --Location path`
`--Item item`
- To import items from a content database, specify:
`--Import --Destination destination --Location path`
`--Items item1 item2 item3`

Displaying Microsoft Office SharePoint farm information

- To display detailed information of the farm, such as name, display name, address, type name, role, version, status and all services running in this farm, specify:
`--FarmInfo`

Displaying content database information

- To display content database information such as: Office Servers, Shared Services, SharePoint configuration, Share Services Search, Recovery Web Application, Shared Services Content, SharePoint Admin Content, content database name, specify:
`--DatabaseInfo`

Displaying a list of sites

- To display the Web Application name, the site's URL, content database name and the all the sites in this content database, specify:
`--ListSites`

Browsing sites

- To browse a My Site structure and items such as: Forms, Lists, Template Gallery, Master Page Gallery, Personal Documents, Shared Documents, Shared Pictures, Site Template Gallery, User Information List, and Web Part Gallery, specify:
`--BrowseSite --Site http://ivanka/personal/anikyb`

7 Troubleshooting

The folder with debugs entries and logs is located in the folder `C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\LOGS\GranularRecovery`, and contains the files `debugs.txt`, `debugs_cliproxy.txt`, `note.txt`, and `note_cliproxy.txt`. The folder location may vary depending on where you install the Microsoft Office SharePoint Server.

An import job fails

Problem

After performing an Import From Backup, Granular Recovery Import Job Status reports a failed status in the Restoring phase.

Status	ID	Name	Started By	Started	Ended	Details
✗	3fe55560-4300-4d5f-a595-255c48d1987b	gr-job-restore-recovery-database_WSS_Content_054a5bfa-f23c-49b8-8f78-e0b3ce00b193_2010/05/13-3	HSL\anikyb	5/18/2010 3:47:16 PM	5/18/2010 3:48:30 PM	✓ Checking disk space ✗ Restoring

Figure 31 Restore fails with not enough user rights

Action

Ensure the user account under which the Windows SharePoint Services Timer service is running is assigned the Data Protector `Start restore`, and the `See private`

objects user rights. For example, if the Windows SharePoint Services Timer service is the one running under the `Network Service` account:

1. Open the Data Protector GUI (**Data Protector Manager**).
2. In the Context list, select **Users**. Right-click the user's group that has the `Start restore` and the `See private objects` user right enabled, and click **Add/Delete Users**.

The `Network Service` user account should be configured with the following properties:

- Name: `Network Service`
- Domain/Group: `NT Authority`
- Client system: `Any`

For details, see "[Configuring HP Data Protector user rights](#)" on page 23.

A recovery session fails

Problem

If you start a recovery session by connecting to the original web site, the following message is displayed:

```
No recovery available for this site
http://computer:25884/sites/User! Please contact Granular
Recovery Administrator for further info!
```

Action

The root cause of the problem is that the content database is not in the cache. Perform an import job.

Granular Recovery Cache Management link is not accessible from My Sites

Problem

After you create a new site collection, a new web application, and backup your new site collection. You select **Site Actions > Site Settings > Granular Recovery** from My

Sites. The Granular Recovery Cache Management link is not accessible from My Sites. The following message is displayed:

```
GR resource files are missing in site's "App_GlobalResources" folder.
```

Action

Open **Central Administration** on the Operations Tab, under **Global Configuration** select **Manage Farm Features**. Click the **Deactivate** button by HP Data Protector Granular Recovery Extension. The Warning page is displayed, click the **Deactivate this feature** link, and then go back to Manage Farm Features, and click **Activate** by the HP Data Protector Granular Recovery Extension.

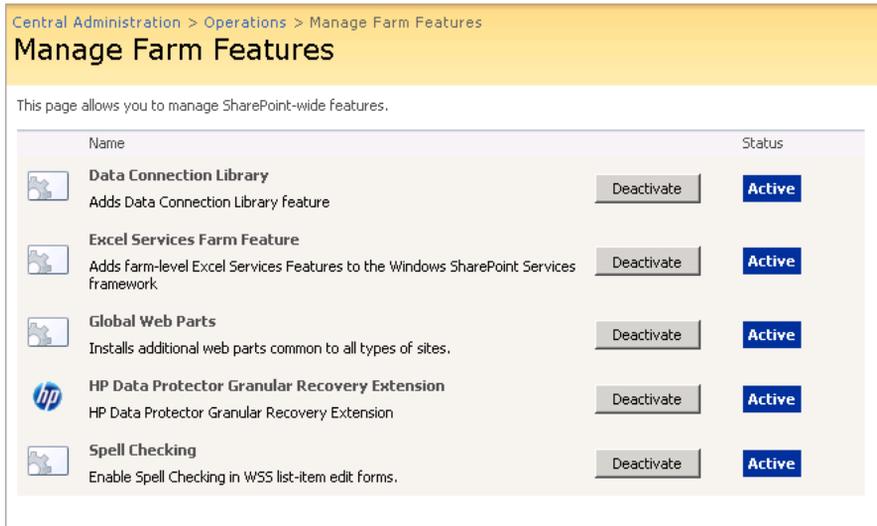


Figure 32 Manage Farm Features deactivating HP Data Protector Granular Recovery Extension

Granular Recovery Cache Management link is not accessible from My Sites

Problem

After you create a new site collection, a new web application, and backup your new site collection. After you perform an Import From Backup procedure, you select **Site Actions > Site Settings > Granular Recovery from My Sites**. The Granular Recovery Cache Management link is not accessible from My Sites. The message "Access denied." is displayed. The following debug entry is displayed:

```
[6 - Fatal] FATAL debugs - Recovery.aspx: OnPreInit: -  
Exception: Thread was being aborted.
```

Action

All application pool users must be granted the Read permission on the Recovery Web Application. To grant the Read permission to application pool user accounts:

1. Connect to the Microsoft Office SharePoint Server Central Administration system, click **Application Management**, under Application Security, and click **Policy for Web Application**.
2. Select the user and click **Edit Permission of Selected Users**. The Edit Users page is displayed. By the Permission Policy Levels select the **Full Read - Has full read-only access** option and click the **Save** button.

Central Administration > Application Management > Policy for Web Application > Edit Users

Edit Users

Web Application	Web Application: http://ivanka:38000/						
Users The policy for these users will be modified.	<table border="1"> <thead> <tr> <th>Zone</th> <th>User Name</th> <th>Display Name</th> </tr> </thead> <tbody> <tr> <td>(All zones)</td> <td>NT AUTHORITY\LOCAL SERVICE</td> <td>NT AUTHORITY\LOCAL SERVICE</td> </tr> </tbody> </table>	Zone	User Name	Display Name	(All zones)	NT AUTHORITY\LOCAL SERVICE	NT AUTHORITY\LOCAL SERVICE
Zone	User Name	Display Name					
(All zones)	NT AUTHORITY\LOCAL SERVICE	NT AUTHORITY\LOCAL SERVICE					
Permission Policy Levels Choose the permissions you want these users to have.	Permissions: <ul style="list-style-type: none"> <input type="checkbox"/> Full Control - Has full control. <input checked="" type="checkbox"/> Full Read - Has full read-only access. <input type="checkbox"/> Deny Write - Has no write access. <input type="checkbox"/> Deny All - Has no access. 						
Choose System Settings System accounts will not be recorded in the User Information lists unless the account is directly added to the permissions of the site. Any changes made by a system account will be recorded as made by the system instead of the actual user account.	<input type="checkbox"/> Account operates as System						

Figure 33 Granting Full Read permission

HP Data Protector Granular Recovery Extension cannot be removed

Problem

The root cause of the problem is that having the HP Data Protector Granular Recovery Extension installation package on the system is a prerequisite for the removal procedure.

Action

To remove HP Data Protector Granular Recovery Extension, use the Microsoft Office SharePoint Server command line tool `stsadm` that is located in `C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\BIN`:

```
stsadm -o retractsolution -name HPDP-GRE-version.wsp  
-allcontenturls -immediate
```

```
stsadm -o execadmsvcjobs
```

```
stsadm -o deletesolution -name HPDP-GRE-version.wsp
```

To find out the name of the `HPDP-GRE-version.wsp` package used, connect to the Central Administration web page, click the **Operations** tab, look for HP Data Protector Granular Recovery Extension, and click **Granular Recovery Settings**. For example, by the Product Version you find the number `1.0.105.1121`. In this example, you should replace `HPDP-GRE-version.wsp` with `HPDP-GRE-1.0.105.1121.wsp`.

Slow response of the command line interface

Problem

You can notice slow response of the HP Data Protector Granular Recovery Extension command line interface. For example when you run the `HP.Sharepoint.GranularRecovery.CLI.exe --help` command, the command takes from 10 seconds to several minutes to display the usage. The root cause of the problem is the HP Data Protector Granular Recovery Extension signature verification which may take quite some time to complete.

Action

To disable the HP Data Protector Granular Recovery Extension signature verification, locate the `cliproxy.exe` and the `HP.Sharepoint.GranularRecovery.CLI.exe` files in the Microsoft Office SharePoint Server BIN folder. By default, the path of the BIN folder is `C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\BIN`. In the BIN folder, create the configuration files `cliproxy.exe.config` and

HP.Sharepoint.GranularRecovery.CLI.exe.config with the following content:

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
<runtime>
<generatePublisherEvidence enabled="false"/>
</runtime>
</configuration>
```

Slow response of the graphical user interface

Problem

You can notice slow response of the HP Data Protector Granular Recovery Extension GUI. For example when importing a content database from backup or from filesystem. The import job might fail, due to a time-out. The root cause of the problem is the HP Data Protector Granular Recovery Extension signature verification which may take too long to complete.

Action

To disable the HP Data Protector Granular Recovery Extension signature verification, locate the `cliproxy.exe` and the `HP.Sharepoint.GranularRecovery.CLI.exe` files in the Microsoft Office SharePoint Server BIN folder. By default, the path of the BIN folder is `C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\BIN`. In the BIN folder, create the configuration files `cliproxy.exe.config` and `HP.Sharepoint.GranularRecovery.CLI.exe.config` with the following content:

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
<runtime>
<generatePublisherEvidence enabled="false"/>
</runtime>
</configuration>
```

8 Removal

Procedure

1. Log on to the Microsoft Office SharePoint Server Central Administration system under a Microsoft Office SharePoint Server **Farm Administrator** user account.
2. Run `Setup.exe` to remove the HP Data Protector Granular Recovery Extension.
Windows Server 2008: Do not forget to run `Setup.exe` with administrative rights if you have Windows UAC enabled (right-click **Setup.exe** > **Run as Administrator**). When the User Account Control dialog box is displayed, click **Allow**.
3. The HP Data Protector Granular Recovery Extension setup wizard is displayed. Click **Next**.

4. On the System Check page, click **Next**.

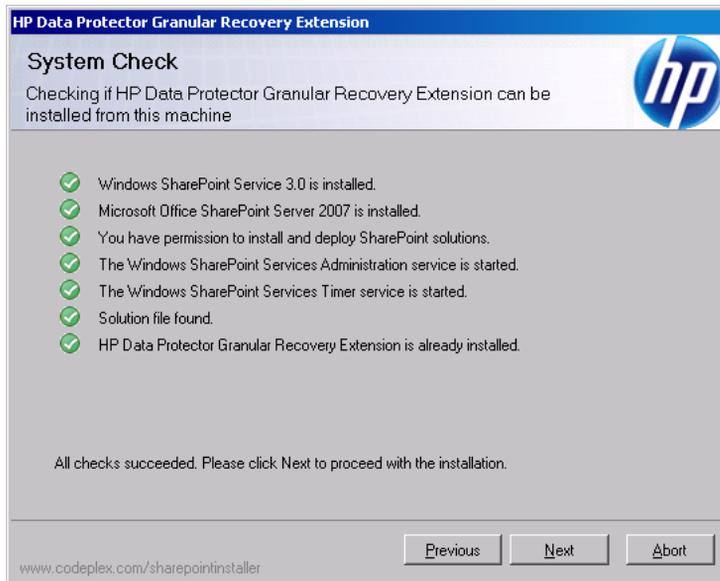


Figure 34 System Check page

5. On the Repair and Remove page, select **Remove** and click **Next**.

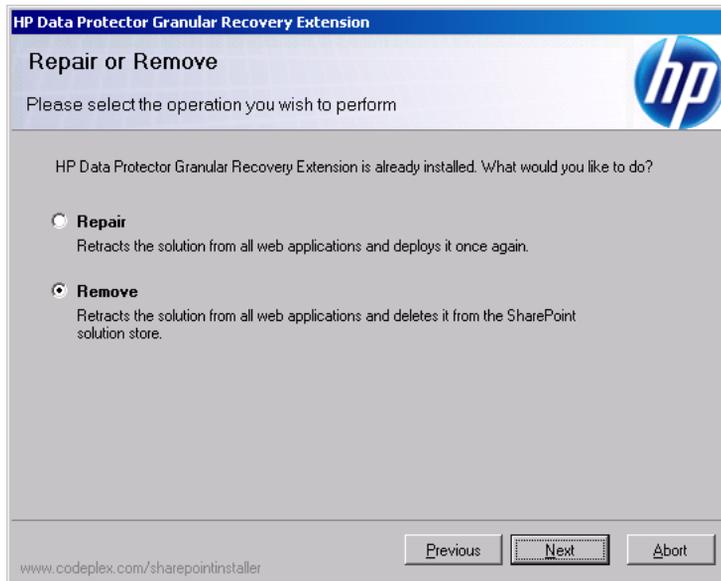


Figure 35 Repair or Remove page

6. On the Uninstalling page, click **Next**.

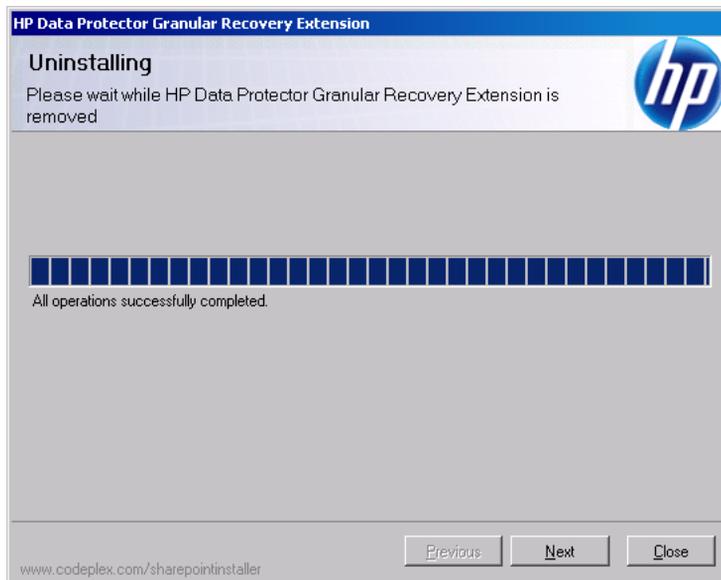


Figure 36 Uninstalling page

7. On the Uninstall Successfully Completed page, click **Close**.

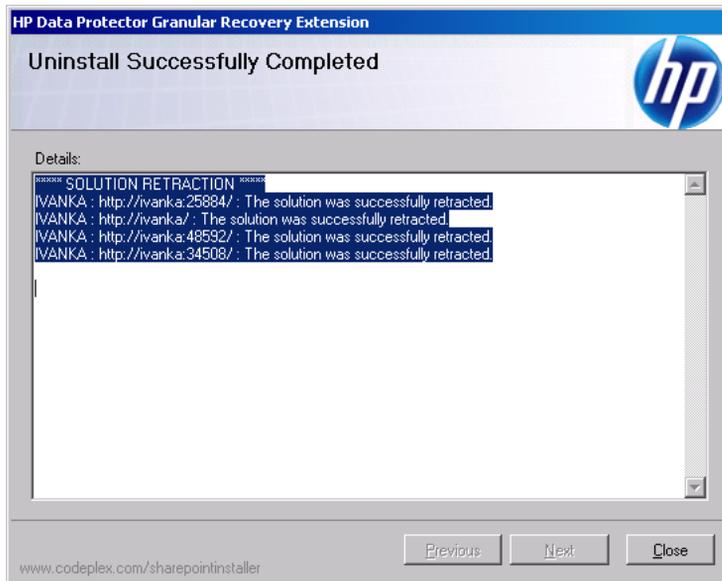


Figure 37 Uninstall Successfully Completed page

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