Installation best practices for Data Protector SharePoint Granular Recovery Extension

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Technical white paper

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Abstract

The purpose of this document is to describe the necessary steps to install Data Protector SharePoint Granular Recovery Extension and provide help in order to avoid any pitfalls.

This document will not replace the *HP Data Protector Granular Recovery Extension User Guide for Microsoft SharePoint Server;* it is an add-on to the provided documentation. You should consult the user guide before installing Data Protector SharePoint Granular Recovery Extension.

This document is valid for HP Data Protector 6.11 and HP Data Protector 6.2; differences between the installation processes of these two versions are described in this whitepaper.

Introduction

The benefits of the HP Data Protector Granular Recovery Extension are the following:

• Recovery granularity:

The smallest object that you can restore with the 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 recover with HP Data Protector Granular Recovery Extension is an individual web site item, for example: a Calendar item, a Calendar, a Tasks item, a Team Discussion item, a document, a shared document, a folder, a list, a library, an announcement, a form, a reporting template, an object's meta data, and a document workflow.

- Integration into Microsoft SharePoint Server Central Administration: Granular Recovery Extension is fully integrated into the Microsoft SharePoint Server Central Administration. This empowers Site Collection Administrators to perform recovery of single items independently or with minimal interference of backup administrators.
- Recovery of multiple sites: Accidental deletion of a site is no longer an issue, even if you cannot use the recycle bin to recover your site. Granular Recovery Extension can recover an entire site with multiple subsites.
- Ease of search:

The Granular Recovery Extension advanced and quick search helps you find the item you need to recover. This search system checks object's metadata, enabling you to filter your search by document type, author, date and so on. Objects are displayed in object tree browser.

• Recovery to different locations:

The Granular Recovery Extension enables recovery to different destinations, for example you can recover your objects to different sites, different farms, and to filesystem.

Installation

Prerequisites

Following Microsoft SQL Server packages and Data Protector component need to be installed on each WFE (SharePoint Web Front-End) and CA (SharePoint Central Administration) systems (see blue colored systems in diagram):

- Microsoft SQL Server Native Client
- Microsoft Core XML Services (MSXML) 6.0
- Microsoft SQL Server 2008 Management Objects Collection
- HP Data Protector User Interface

All these packages must be installed irrespective of the installed SQL Server version on the SharePoint database backend system.

Figure 1: SharePoint example farm



Make sure all listed prerequisites are installed before you continue with the Granular Recovery Extension installation.

Microsoft prerequisites (all part of the SQL Feature Pack) can be downloaded at following URL: <u>http://www.microsoft.com/downloads/en/default.aspx</u>

To be sure that prerequisites are installed on all required systems (all WFE and CA systems) a checklist is very helpful.

A checklist of the example environment pictured in above diagram would look like this:

Components needed on each WFE and CA	Installed ?			
	CA	WFE 1	WFE 2	WFE 3
Microsoft SQL Server Native Client				
Microsoft Core XML Services (MSXML) 6.0				
Microsoft SQL Server 2008 Management Objects Collection				
HP Data Protector User Interface				

The prerequisites can be checked with help of Windows tools such as "Programs and Features" and "Windows Explorer".

How to check prerequisites on a Windows 2008 R2 system:

• SQL Server Native Client and SQL Server 2008 Management Objects Collection (SMO) can be checked in Control Panel > Programs and Features

Figure 2: Programs and Features

Name 🔺 🚽	Publisher 🗸	Install 👻	Size 👻	Version 🗸 👻
ADO.NET Data Services v1.5 CTP2	Microsoft Corporation	07.12.2010		1.5
Adobe Reader 9.4.0	Adobe Systems Incorporated	17.02.2011	143 MB	9.4.0
💼 HP Data Protector A.06.11	Hewlett-Packard	28.01.2011		06.11.0724
Microsoft Chart Controls for Microsoft .NET Framework 3.5	Microsoft Corporation	07.12.2010	6,92 MB	3.5.0.0
Microsoft Filter Pack 2.0	Microsoft Corporation	07.12.2010	6,76 MB	14.0.4763.1000
Microsoft Server Speech Platform Runtime (x64)	Microsoft Corporation	07.12.2010	5,38 MB	10.2.7300.97
Microsoft Server Speech Recognition Language - TELE (en-US)	Microsoft Corporation	07.12.2010	29,6 MB	10.1.7200.5
🚼 Microsoft SharePoint Server 2010	Microsoft Corporation	28.02.2011		14.0.4763.1000
📑 Microsoft SQL Server 2005 Analysis Services ADOMD.NET	Microsoft Corporation	28.02.2011	1,78 MB	9.00.1399.06
Microsoft SQL Server 2008 Analysis Services ADOMD NET	Microsoft Corporation	07.12.2010	1,76 MB	10.1.2531.0
📑 Microsoft SQL Server 2008 R2 Management Objects (x64)	Microsoft Corporation	07.12.2010	19,7 MB	10.50.1600.1
📑 Microsoft SQL Server 2008 R2 Native Client	Microsoft Corporation	07.12.2010	6,06 MB	10.50.1600.1
Hicrosoft SQL Server System CLR Types (x64)	Microsoft Corporation	07.12.2010	846 KB	10.50.1600.1
Microsoft Sync Framework Runtime v1.0 (x64)	Microsoft Corporation	07.12.2010	802 KB	1.0.1215.0
Microsoft Sync Services for ADO.NET v2.0 (x64)	Microsoft Corporation	07.12.2010	532 KB	2.0.1215.0
🚦 SQL 2008 R2 Reporting Services SharePoint 2010 Add-in	Microsoft Corporation	07.12.2010	15,7 MB	10.50.1600.1

• XML version 6 installation can be verified by checking the corresponding DLLs in directory C:\Windows\System32

Figure 3: XML version 6 DLLs

🕌 System32		
	NT1 🝷 Local Disk (C:) 🝷 Windo	ws 🕶 System32 💌
Organize 🔻 Include in libra	ry 🔻 Share with 👻 Nev	ı folder
🔶 Eavorites	Name *	Date modified
	🚳 msxml3.dll	08.06.2010 07:36
	🚳 msxml3r.dll	14.07.2009 03:30
	🚳 msxml6.dll	14.07.2009 03:41
Actual Control of Cont	🚳 msxml6r.dll	14.07.2009 03:30
🔚 Libraries	🚳 msyuv.dll	19.12.2009 10:47

• Data Protector User Interface can be started via Windows start menu

Figure 4: SharePoint example farm

 Accessories Administrative Tools ADO.NET Data Services v1.5 CTP2
🚡 HP Data Protector
Administrator Command Prompt
💼 Data Protector Manager
Startup
▲ Back
Search programs and files
🍂 🗾 🎇 🖉

Installation

The Data Protector Granular Recovery Extension for Microsoft SharePoint Server must be installed on the Microsoft SharePoint Server Central Administration system.

Note:

- Ensure that Data Protector components that are needed to back up Microsoft SharePoint Server data are also installed in the Microsoft SharePoint Server environment.
- You can install the Granular Recovery Extension only on systems with Microsoft SharePoint Server installed. Otherwise, the installation will not succeed.

Installation procedure Data Protector 6.11

In a Data Protector 6.11 environment, the only installation option is to run a local installation.

- 1. Login to the SharePoint Central Administration (CA) system in your SharePoint farm using a farm administrator account.
- 2. Start a Command Prompt window with administrator user permissions (right-click Command Prompt and select Run as Administrator).
- 3. Change to the directory where the GRE installation binaries are located and run grm_install.

Note: If you are installing a Data Protector SharePoint GRE patch (e.g. DPWIN_00482, DPWIN_00510) you need to run the patch executable first in order to extract the patch files, after this go on with the above description.

 Once the installation is complete, the following message is displayed in the Command Prompt window: Operation completed successfully.

```
Operation completed successfully
Timer job successfully created.
Done.
```

Installation procedure Data Protector 6.2

In a Data Protector 6.2 environment installation can be performed either via local or remote standard Data Protector installation methods.

Local Installation

When installing the component locally by using standard Data Protector local installation (see Installation Guide), the Data Protector installation wizard will display the MS SharePoint GRE options dialog box. Specify the Farm Administrator user name and password.

Figure 5: Local Installation

🖶 HP Data Protector A.06.20 - Setup Wizard	×
Component Selection Select the program features you want installed.	(IP)
 User Interface X Manager-of-Managers User Interf. Documentation (Guides, Help) English Documentation (Guides, He French Documentation (Guides, He Chinese Documentation (Guides, He X 	Feature Description Allows granular recovery of MS SharePoint This feature requires 1092KB on your hard drive.
	Space
A.06.20 370	Next > Cancel

Figure 6: Local Installation – Enter Farm Administrator credentials

🙀 HP Data Protector A.06.20 - Setup Wizard	×
Ready to Install the Program	
The wizard is ready to begin the installation.	<u>U</u>
Click Install to begin the installation.	
To review or change any of your installation settings, click Back. Click Cancel to e wizard.	exit the
Here and the second terms and the second terms and the second terms and the second terms are second to the second terms and terms are second to the second terms are second terms are second terms are second terms are second to the second terms are second to the second terms are	×
Enter Farm Administrator user account name and password.	
User:	rePoir
Password:	
ОК	Þ
Data Protector	
A,06,20 370 < <u>B</u> ack Install	Cancel

Remote Installation

To install the component remotely, choose Client context in Data Protector GUI, choose to add a component and select the MS SharePoint Granular Recovery Extension, click Configure and specify the Farm Administrator user name and password in the MS SharePoint GRE options dialog box.

Figure 7: Remote Installation – Enter Farm Administrator credentials

Component	Version	—	Configure
Lotus Integration	A.06.20		
DB2 Integration	A.06.20		
HP NNM Backup Integration	A.06.20		
MS Volut MS SharePoint GRE optio	ons (all clients)		×
VMware			
Enter Farm Administrator us	er account name and passv	vord.	
Automal			
English [Username			
Japanes			
French (Password			
Chinese			
IAP Disk			
IAP Ded OK	Cancel		Help
VLS Aut		_	
Virtual Environment Integration	A.06.20		
MS SharePoint Granular Recovery Ext	ension A.06.20		
VMware Granular Recovery Extension	Agent A.06.20		
VMware Granular Recovery Extension	Web Plug-To A.06.20		

Configuration

Configuration steps of Data Protector Granular Recovery Extension for SharePoint are described in detail in *HP Data Protector Granular Recovery Extension User Guide for Microsoft SharePoint Server,* see the user guide for the required configuration steps.

Tips and Tricks

The following section provides tips and tricks in order to get the Granular Recovery Extension for SharePoint to work.

Please note: Not all of these tips are applicable to every Microsoft SharePoint environment.

Check farm solution

Data Protector Granular Recovery Extension for SharePoint is installed as a farm solution into the SharePoint farm. The farm solution package is named: moss_gre_20**.wsp After installation of GRE the farm solution should be deployed successful. This can be checked in Central Administration.

Microsoft SharePoint Server 2010:

Central Admin Page > System Settings > Manage Farm Solutions >moss_gre_2010.wsp

<u>Microsoft Office SharePoint Server 2007:</u> Central Admin Page > Operations > Solution management > moss_gre_2007.wsp

Figure 8: Successful deployed farm solution

Name:	moss_gre_2010.wsp
Туре:	Core Solution
Contains Web Application Resource:	Yes
Contains Global Assembly:	Yes
Contains Code Access Security Policy:	No
Deployment Server Type:	Front-end Web server
Deployment Status:	Deployed
Deployed To:	http://vmw38116/; http://vmw38116;38000/
Last Operation Result:	The solution was successfully deployed.
Last Operation Details:	VMW38116 : http://vmw38116:38000/ : The solution was successfully deployed. VMW38116 : http://vmw38116/ : The solution was successfully deployed.
Last Operation Time:	3/9/2011 3:49 PM

No internet access

If your SharePoint environment doesn't have any internet access or a slow internet connection, the HP Data Protector Granular Recovery Extension signature verification will fail or timeout, and the "Import from Backup" will hang.

To disable the signature verification, locate the files cliproxy.exe and HP.Sharepoint.GranularRecovery.CLI.exe in the Microsoft SharePoint Server BIN folder. By default, the path of the BIN folder is for Microsoft SharePoint Server 2010: C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\BIN In the BIN folder, create two new 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>
```

Browser Settings

Pop Up blocker

At the time of recovery, while changing the default settings (e.g. recovery location) the recovery wizard pops up a dialog box to enter the new location. In order to see this popup any popup blocker software in your browser must be disabled.

Figure 9: Recovery Location configuration

🧄 н	P Data	a Protector Granular Recovery	Extension		
🕨 Star	t Reco	very			
Recove	ry Set	tings			
Recovery	Mode:	Rename If Exists	•		
[emporal	y Path:	C:\Recovery			
Items	for Rec	overy			
Status	Туре	Name	Into	Created	Ву
		Data Protector Demo/Shared Documents/c01631238.pdf	Original L Original L Other Lo	Location - DPNE\SP Location cation	user01
Status			Other Fai FileSyste	rm m	

Figure 10: Dialog box (pop up)

Recovery to other location	
Destination Site	Sites
Select destination site for recovery	http://vmw38116/sites/dp/
	Apply to all items of the same type
급-銷 一戰 匚 Customized Reports	
📴 🔲 Form Templates	
📴 🥅 Shared Documents	
📴 🥅 Site Assets	
📴 🥅 Style Library	

Animations

In order to see the animated status bar on the Import Job Status page, you need to make sure that animations in your browser are being displayed.

In Internet Explorer version 8 you can find the settings in Tools>Internet Options>Advanced>Multimedia>Play animations in webpages

Figure 11: Internet Options – Advanced

Internet Options
General Security Privacy Content Connections Programs Advanced
Settings
 Multimedia Always use ClearType for HTML* Enable automatic image resizing Play animations in webpages* Play sounds in webpages Show image download placeholders Show pictures Smart image dithering Printing Print background colors and images Search from the Address bar Do not submit unknown addresses to your auto-search pro Just display the results in the main window Security *Takes effect after you restart Internet Explorer
Restore advanced settings
Reset Internet Explorer settings Resets Internet Explorer's settings to their default Reset
Condition
OK Cancel Apply

Adding a new Web Application

If you are adding a new web application or if you are adding a new WFE after you have already successfully installed Data Protector GRE, you need to re-activate (deactivate and activate) the farm feature HP Data Protector Granular Recovery Extension. If you don't do so you will run into problems when Site Collection Administrator wants to access the GRE wizard.

In order to re-activate the Data Protector GRE farm feature for all web applications open SharePoint Central Administration:

<u>Microsoft Office SharePoint Server 2007:</u> On the Operations Tab, under Global Configuration, select Manage Farm Features.

<u>Microsoft SharePoint Server 2010:</u> Under System Settings, select Manage Farm Features.

Figure 12: Farm Features

Central Administration > Manage Farm Features This page allows you to manage SharePoint-wide features.		<i>i</i> Like It
Name		Status
"Connect to Office" Ribbon Controls Adds entry points in the ribbon user interface for creating library shortcuts in the user's SharePoint Sites list if they have a recent version of Office installed. Office will periodically cache templates available in those libraries on the user's local machine.	Deactivate	Active
Access Services Farm Feature Adds farm-level Access Services Features to the Microsoft SharePoint Foundation framework	Deactivate	Active
Adds Data Connection Library	Deactivate	Active
Excel Services Application View Farm Feature Adds farm-level Excel Services Application viewing features to the Microsoft SharePoint Foundation framework	Deactivate	Active
Excel Services Application Web Part Farm Feature Adds farm-level Excel Services Application web part features to the Microsoft SharePoint Foundation framework	Deactivate	Active
FAST Search Server 2010 for SharePoint Master Job Provisioning Provisions FAST Search Server 2010 for SharePoint Master Job.	Deactivate	Active
Global Web Parts Installs additional web parts common to all types of sites.	Deactivate	Active
HP Data Protector Granular Recovery Extension HP Data Protector Granular Recovery Extension	Deactivate	Active
Office.com Entry Points from SharePoint		

Click the Deactivate button by HP Data Protector Granular Recovery Extension. The Warning page is displayed, click the Deactivate this feature link.

Figure 13: Warning page

•	You are about to deactivate the HP Data Protector Granular Recovery Extension feature. If you deactivate this feature, any user data or customizations associated with this feature might be lost. In addition, any active features that depend on this feature might fail to function.
	Deactivate this feature

After performing, this go back to Manage Farm Features, and click Activate next to the HP Data Protector Granular Recovery Extension entry.

Restore directory on SQL

If you are using Data Protector SQL backups (Method: SQLVDI) as restore source and running into problems at "Import from Backup" time, double-check if the restore directory (C:\Restore) has been created on the SQL system.

If not, just create the folder and restart with your "Import from Backup" in the Data Protector Granular Recovery for SharePoint plugin.

Restarting IIS

If you are troubleshooting or experiencing problems which may be caused by IIS, you may need to restart (iisreset) IIS on all SharePoint clients (WFE and CA).

Figure 14: iisreset



Note: Watch out when restarting IIS in a production environment. The web server will be unavailable for a short amount of time. Contact your SharePoint administrator for this action.

See more details on IIS here: http://technet.microsoft.com/en-us/library/cc758159.aspx

Restarting SharePoint timer service

If you are troubleshooting and need to be sure that SharePoint timer jobs are running and starting successful (e.g. any timer job related tasks are executed), you may need to restart the SharePoint timer service on all SharePoint hosts.

Figure 15: Restart Timer Service

Services Restart Service			
Name 🔺	Description	Status	Startup Typ
SharePoint 2010 Administration	Performs a	Started	Automatic
SharePoint 2010 Timer	Sends notif	Started	Automatic
SharePoint 2010 Tracing	Manages tr	Started	Automatic
🧠 SharePoint 2010 User Code Host	Executes u		Disabled
🔍 SharePoint 2010 VSS Writer	SharePoint	Started	Automatic
🐘 SharePoint Foundation Search V4	Provides fu	Started	Automatic
SharePoint Server Search 14	Provides e	Started	Manual

Note: Watch out when restarting SharePoint timer service in a production environment. Contact your SharePoint administrator for this action.

FAST Search specific – Configure SharePoint Search Engine

If FAST Search 2010 is used in a SharePoint environment, it is recommended to use only the FAST search query SSA as default. No issues are known for Data Protector if the SP SSA is still used as default, but MS recommends using only the FAST search query SSA as default:

http://technet.microsoft.com/en-us/library/ff381251.aspx

- On SharePoint Server 2010, on the Central Administration Home page, select Application Management.
- Under Service Applications, click Configure service application associations.
- Click the Application Proxy Group that you want to change, typically default.
- Make sure that the Query SSA (for example FAST Query SSA) is the default and only selected Search Service Application Proxy, and then click OK.
- Verify that the correct Query SSA is associated with the web application.

Figure 16: Configure Service Application Associations

Cont	igure Service Application Associations		□ ×
Edit	the following group of connections: custom	Configure Service Application Associations	
	Name	Туре	
	BDC_ServiceApp	Business Data Connectivity Service Application Proxy	
	Excel Services Application [set as default]	Excel Services Application Web Service Application Proxy	
~	Excel Services [default]	Excel Services Application Web Service Application Proxy	
	ExcelSA [set as default]	Excel Services Application Web Service Application Proxy	
	Managed Metadata Service Application	Managed Metadata Service Connection	
	PowerPoint_Service_Application Proxy	PowerPoint Service Application Proxy	
	FAST_QuerySA [set as default]	Search Service Application Proxy	
	SP_SearchServiceApp [set as default]	Search Service Application Proxy	
	State Service	State Service Proxy	
	WSS_UsageApplication	Usage and Health Data Collection Proxy	
	User Profile Service Application	User Profile Service Application Proxy	
	Web Analytics Service Application	Web Analytics Service Application Proxy	
	WordViewingServiceApp	Word Viewing Service Application Proxy	
		OK Cancel	

Cleanup

You might need a manual cleanup of Data Protector SharePoint GRE installation components if a new installation or an upgrade of GRE fails. The following steps guide you through the manual cleanup procedure.

<u>Note:</u>

- Make sure that no GRE restore/recovery sessions are running.
- If you've already completed an "Import from Backup" job and a database has been imported in Granular Recovery Cache, it is recommended to remove (with SQL tools) the imported database first before removing SharePoint GRE.

Farm Solution

Check if the Granular Recovery Extension solution are still listed in the SharePoint Central Admin Page:

Microsoft SharePoint Server 2010:

```
Central Admin Page > System Settings > Manage Farm Solutions
If the file moss_gre_2010.wsp exists, select it and click Retract Solution.
```

Figure 16: Retract farm solution

Deploy Solution	Retract Solution	Back to Solutions
Name: Type:	listis personal	moss_gre_2010.wsp
Contains Web App Contains Global A Contains Code Ac	ssembly: cess Security Policy	Yes Yes No

Microsoft Office SharePoint Server 2007:

Central Admin Page > Operations > Solution management If the file moss_gre_2007.wsp exists, select it and click Retract Solution.

Recovery Web Application

Check if Recovery Web Application is still present after uninstall of SharePoint GRE:

Microsoft SharePoint Server 2010:

Central Admin Page > Application management > Manage Web Applications If the extension is listed, remove it manually:

- 1. Select it and click Delete.
- 2. Select Yes for Delete content databases.
- 3. Select Yes for Delete IIS web sites.
- 4. Click Delete.

Figure 17: Delete "Recovery Web Application"

Site Actions 👻 🛛	🖄 Br	owse	Web Ap	plications		
New Extend	Delete	Gener Setting	M 😭 N 🍣 al ≤ 🔎 ⊊ S	1anage Feat 1anaged Pa ervice Conn	tures ths ections	Authentication Providers
Contribut	Delete V	Veb Appl	lication			
Central Remove SharePoint from IIS Web Site Administration Name						
Application Ma	inageme	nt <u>Sh</u> a	arePoint	- 80		
System Settin	gs	Re	covery V	veb Applic	ation	
Monitoring		Sha	arePoint	Central A	Iministr	ation v4

Microsoft Office SharePoint Server 2007:

Central Admin Page > Application Management > Web Application list If the extension is listed, remove it manually:

- 1. Select Recovery Web Application > Delete Web Application
- 2. Select Yes for Delete content databases
- 3. Select Yes for Delete IIS web sites
- 4. Click Delete

Note:

After removing the Recovery Web Application check if on all WFE systems the corresponding IIS web application and virtual directory (port 38000) are removed.

Recovery database

Check for the Recovery Web Application database on the SQL database server. If present, remove it with help of SQL tools. You can identify the database due to the postfix "Data Protector session ID".

Figure 18: Recovery Web Application database with session ID postfix



GRE binaries

Check the following directories on all WFE and CA systems in your SharePoint farm and make sure that all Data Protector SharePoint GRE binaries are successful removed.

Note: Manual deletion of GRE binaries should only be performed if a new installation fails after an earlier uninstall. This is not the prescribed way to uninstall SharePoint GRE.

Global Assembly Cache

For each SharePoint client (WFE and CA), check if any HP. * assemblies are left in C:\Windows\assembly.

Figure 19: Popup

🖃 💒 Local Disk (C:) 📃 🔺	Assembly Name 🔺	Version
🕀 🏊 inetpub	selEventViewer	6.1.0.0
F PerfLogs	se EventViewer.Resources	6.1.0.0
E Program Files	s 🗱 HP. SharePoint	14.0.0.0
Discrete Siles (v.94)	📲 🕮 HP. SharePoint. BackupRestore	14.0.0.0
Program Files (x86)	: 🖄 HP. SharePoint. EventReceiver	14.0.0.0
🛨 🌉 ProgramData	: 🖄 HP. SharePoint. Granular Recovery	14.0.0.0
🛨 🌉 temp	: 🕮 HP. SharePoint, Granular Recovery, Gui	14.0.0.0
🕀 🍑 Users	📲 HP.SharePoint.GranularRecovery.Gui.Controller	14.0.0.0
🖂 퉬 Windows	ःﷺ HP.SharePoint.Service	14.0.0.0
🕀 퉲 AppCompat	: 🖄 HP. SharePoint. WebControls. AdvancedSearch	14.0.0.0
🕀 📙 AppPatch	: 🖄 HP. SharePoint . WebControls . GridViewEx	14.0.0.0
	: 🖄 HP. SharePoint. WebControls. GridView Tree	14.0.0.0
	ःﷺ HP.SqlServer.Tasks	14.0.0.0
	: 🖄 HP. WebControls. ProgressPanel	14.0.0.0
🛨 📙 Branding	: di HTMLCHECKERLIb	1.0.0.0

Remove any existing HP.* assemblies manually. Right-click the assembly and select Uninstall.

SharePoint home directory

<SharePoint home directory> is the following: <u>Microsoft SharePoint Server 2010:</u> C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14

<u>Microsoft Office SharePoint Server 2007:</u> C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12

In SharePoint home directory check the following directories for files and subdirectories:

<SharePoint home directory>\BIN

For each SharePoint client (WFE and CA) check if the following files

- cliproxy.exe
- CommandLine.dll
- HP.SharePoint.GranularRecovery.CLI.exe

are located in the BIN directory, if so delete them manually.

<SharePoint home directory>\Resources

For each SharePoint client (WFE and CA) check if the following files

• GranularRecovery*.resx

are located in the Resources directory, if so delete them manually.

<SharePoint home directory>

For each SharePoint client (WFE and CA) check if the following subdirectories are removed

- \LOGS\GranularRecovery
- \TEMPLATE\LAYOUTS\GranularRecovery
- \TEMPLATE\IMAGES\GranularRecovery
- \TEMPLATE\FEATURES\GranularRecovery

Inetpub directory

For each SharePoint client (WFE and CA) check if the following files

C:\inetpub\wwwroot\wss\VirtualDirectories\<port>\App_GlobalResources\Gran ularRecovery*.resx

are removed.

Troubleshooting

For more troubleshooting hints please see the HP Data Protector Granular Recovery Extension User Guide for Microsoft SharePoint Server.

Acronyms

CA	SharePoint Central Administration	
WFE	SharePoint Web Front-End	
GRE	Granular Recovery Extension (in this document always	
	SharePoint Granular Recovery Extension)	
IIS	Internet Information Services	
SMO	SQL Management Objects	
XML	Extensible Markup Language	
DLL	Dynamic Link Library	
MS	Microsoft	
MOSS 2007	Microsoft Office SharePoint Server 2007	
SPS 2010	SharePoint Server 2010	

For more information

For further information see also HP Data Protector Granular Recovery Extension User Guide for Microsoft SharePoint Server and HP Data Protector Installation Guide.

To read more about Data Protector, go to www.hp.com/go/dataprotector

Microsoft SQL Feature Pack download: http://www.microsoft.com/downloads/en/default.aspx



Get connected www.hp.com/go/getconnected Current HP driver, support, and security alerts

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