



Storage Platform Console

USER MANUAL

For Microsoft Windows

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Instruction Symbols

The following icons appear in the document:



Note: Important additional information.



Example: Practical illustration of a process or procedure.



Tip: Suggestion or hint to guide or assist users performing a task.



Warning: Warning against potential mistakes and actions that could cause critical error.

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1. Introduction

Congratulations on choosing the Backup Pro Storage Platform. Backup Pro minimises risk, maximises productivity and allows businesses to regain control of their most valuable asset - their data.

For technical support, please contact your software provider.

Product overview

The Backup Pro Storage Platform Console is a management tool that enables you to manage the Storage Platform and all the elements within the larger backup environment. The Backup Pro storage solution, the Storage Platform and the Storage Platform Console are explained in more detail below.

Storage solution

Within a Backup Pro storage solution setup, Backup Clients (Desktop & Laptop [DL], Server Edition [SE] and/or Enterprise Server Edition [ESE]) connect and back up data to the Storage Platform.



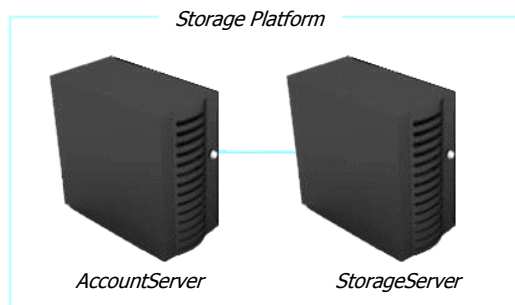
This diagram illustrates a common scenario:

Files and folders stored on one or more machines running DL, SE or ESE can be backed up to a Storage Platform over an Internet connection or within a Local Area Network.

In the event of data loss or corruption on the server, data can be retrieved from the Storage Platform and restored to the original or another Backup Client in just a few easy steps.

Storage Platform

A Backup Pro Storage Platform (SP) consists of an AccountServer (AS) connected to one or more StorageServer[s] (SS). The AccountServer manages user authentication information and Backup Group management. This information is distributed to individual StorageServers and is used by the ESE Backup Clients to connect directly to StorageServers; DL and SE Backup Clients connect to the AccountServer. The StorageServer is the file storage location for Clients' encrypted data.



The diagram on the left represents a common scenario:

When an AccountServer is connected to one or more StorageServer(s), together they function as a Storage Platform.



Note: These components (AS & SS) may run on the same or separate physical platforms.

Storage Platform Console

The Backup Pro Storage Platform Console (SP Console) is used to manage and administer all the elements within the storage solution.



The diagram on the left represents a simplified scenario:

The Storage Platform Console connects to the Storage Platform and enables the management of the entire backup environment (Backup Accounts, Backup Clients and the Storage Platform).

2. Getting started

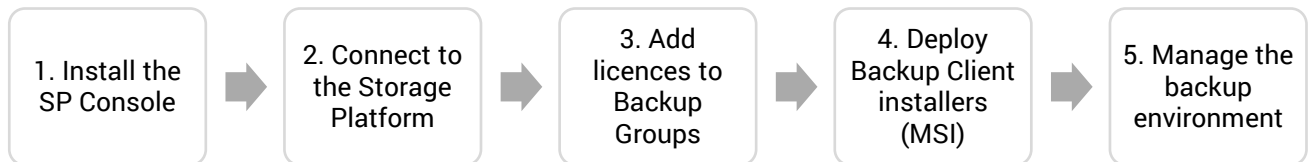
This chapter is a Quick Guide to getting the Backup Pro Storage Platform Console up and running.



Note: For more detailed information on using the SP Console, see Chapters 3 to 9 later in this manual.

How to set up an SP Console

Follow the steps outlined below to set up the SP Console to access and control the Storage Platform and Backup Accounts (i.e. the backup environment):



Step 1: Install the SP Console

To install the SP Console on a Windows operating system:

1. Ensure that the machine on which you wish to install the Console meets the minimum system requirements listed in Chapter 3, "Installation".
2. Run the Console installer issued to you by your software provider.
3. Follow the Setup Wizard steps.



Note: For detailed information on each of the wizard steps, see *The Setup Wizard* in Chapter 3, "Installation".

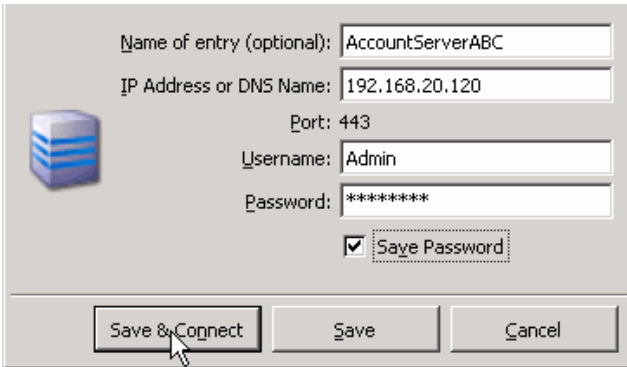
After completing the wizard, the SP Console will be installed. The next step is to connect to the Storage Platform.

Step 2: Connect to the Storage Platform

The SP Console can connect to an AccountServer to perform Storage Platform-wide administrative functions. However, it can also connect directly to MirrorServers with limited administrative functions should the AccountServer be unavailable.

To connect to a Storage Platform from the AccountServer for the first time:

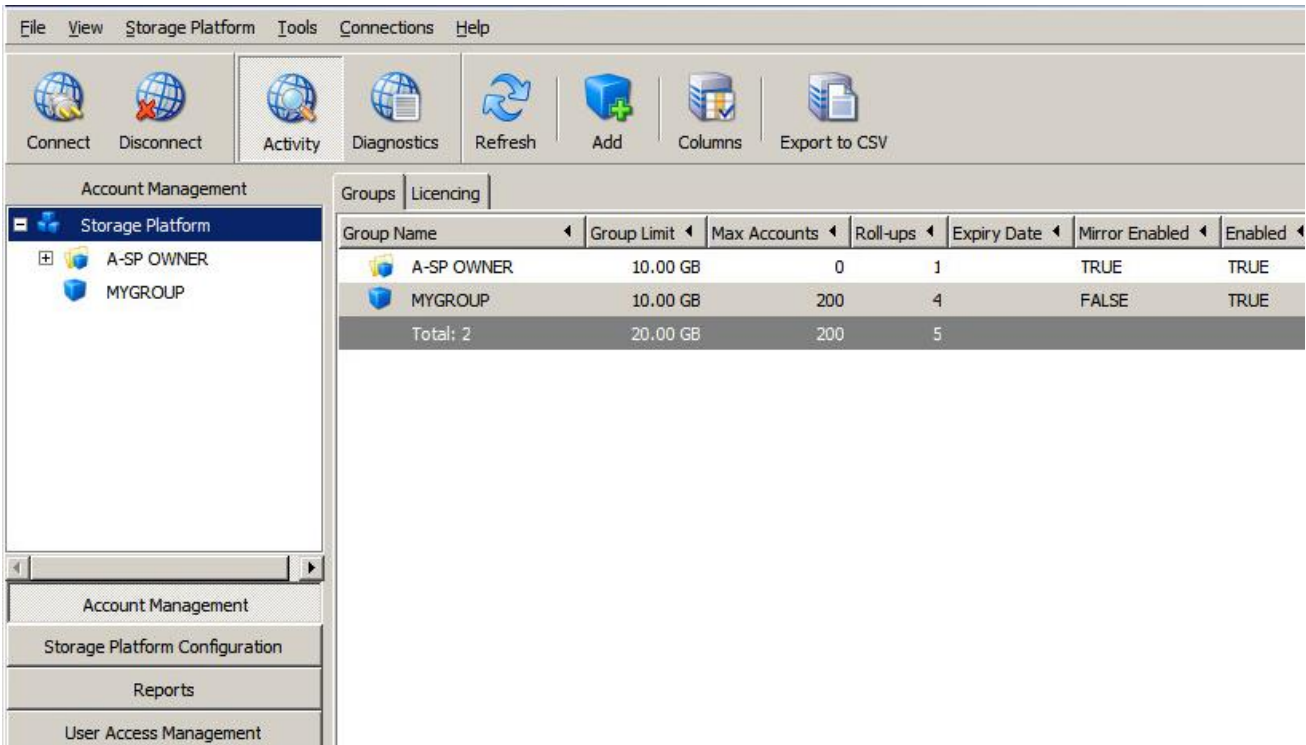
1. In the **Add AccountServer** dialog box that appears when you open the SP Console for the first time, enter the details of the AccountServer you wish to connect to in the boxes provided.
2. Click **Save and Connect**.



The dialog box contains the following fields and controls:

- Name of entry (optional): AccountServerABC
- IP Address or DNS Name: 192.168.20.120
- Port: 443
- Username: Admin
- Password: *****
- ☒ Save Password
- Buttons: Save & Connect, Save, Cancel

Once connected, the SP Console opens in Account Management view by default.



The SP Console interface shows the Account Management view. The top menu bar includes File, View, Storage Platform, Tools, Connections, and Help. Below the menu is a toolbar with icons for Connect, Disconnect, Activity, Diagnostics, Refresh, Add, Columns, and Export to CSV. The main area is divided into two panes. The left pane shows the Account Management tree with the following structure:

- Storage Platform
 - A-SP OWNER
 - MYGROUP

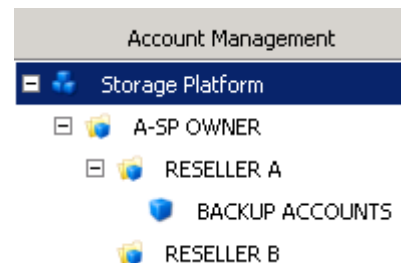
The right pane shows the Groups tab with a table of account groups:

Group Name	Group Limit	Max Accounts	Roll-ups	Expiry Date	Mirror Enabled	Enabled
A-SP OWNER	10.00 GB	0	1		TRUE	TRUE
MYGROUP	10.00 GB	200	4		FALSE	TRUE
Total: 2	20.00 GB	200	5			

At the bottom of the interface, there is a navigation bar with the following options: Account Management, Storage Platform Configuration, Reports, and User Access Management.

If there are any Collections or Backup Groups already created on the AccountServer, they will display in the Account Management tree, under the **Storage Platform** node.

An SP Console user with the correct permissions can configure the Storage Platform, create and configure Collections and Backup Groups and manage any Backup Accounts that already exist on the Storage Platform.



The Account Management tree snippet shows the following structure:

- Account Management
 - Storage Platform
 - A-SP OWNER
 - RESELLER A
 - BACKUP ACCOUNTS
 - RESELLER B



Note: The configuration options available depend on your user access rights. As an Admin user, you have full access rights. For a detailed description of the rights available, see Chapter 9, “User Access Management”.

As every Backup Account needs to belong to a Backup Group, you need to add at least one Backup Group to the SP Console. For more information, see *Adding and deleting Groups* in Chapter 6, “Account Management”.

Once you have added a Backup Group, you need to add the appropriate licences to allow users to add new Backup Accounts to it.



Note: New Backup Accounts are created via the Account Wizard that runs immediately after a Backup Client installation is complete. For more information, please refer to the relevant Backup Client User Manual (Desktop & Laptop or Server Edition).

Step 3: Add licences to Backup Groups

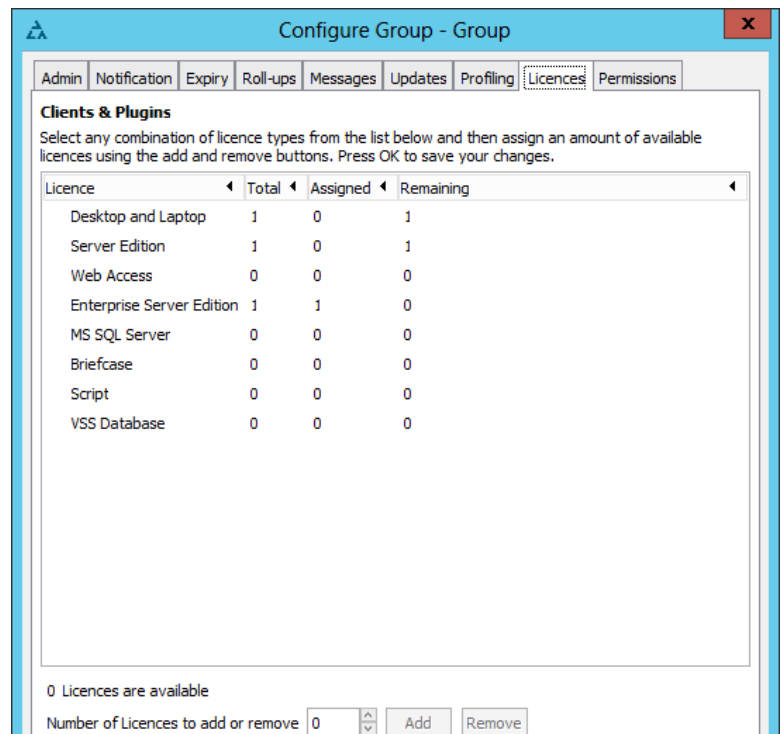
Before Backup Accounts can be created on the Storage Platform, appropriate licences need to be added to the relevant Backup Group. These must be added from the pool of purchased licences available.



Note: To purchase additional licences, please contact your software provider.

To add licences to a Backup Group:

1. In the Account Management view, expand the **Storage Platform** node in the Account Management tree.
2. Double-click the Backup Group name. Alternatively, right-click the name, and then click **Configure**.
3. In the **Configure Group** dialog box that appears, click the **Licences** tab.
4. Select the type of licence to add to the Backup Group. E.g. **Server Edition**.
5. In the **Number of Licences to add or remove** box, type the number of licences to add.
6. Click the **Add** button.



Configure Group - Group

Admin Notification Expiry Roll-ups Messages Updates Profiling **Licences** Permissions

Clients & Plugins
Select any combination of licence types from the list below and then assign an amount of available licences using the add and remove buttons. Press OK to save your changes.

Licence	Total	Assigned	Remaining
Desktop and Laptop	1	0	1
Server Edition	1	0	1
Web Access	0	0	0
Enterprise Server Edition	1	1	0
MS SQL Server	0	0	0
Briefcase	0	0	0
Script	0	0	0
VSS Database	0	0	0

0 Licences are available

Number of Licences to add or remove:



Tip: If the **Add** button is disabled, ensure that the Backup Collection to which the Group belongs has sufficient licences assigned to it.

7. Click **OK**.

The number of licences added to the Backup Group will display in the **Total** column on the **Licences** tab in the **Configure Group** dialog box:

Admin Notification Expiry Roll-ups Messages Updates Profiling Licences Permissions			
Licence	Total	Assigned	Remaining
Desktop and Laptop	0	0	0
Server Edition	5	0	5
Web Access	0	0	0

The number of licences will also display in the **Total** column on the **Licensing** tab in the Account Management view:

Account Management

Storage Platform

A-SP OWNER

RESELLER A

BACKUP ACCOUNTS

RESELLER B

Accounts

Licensing

Licence	Total
Desktop and Laptop	0
Server Edition	5
Web Access	0
MS SQL Server	0

Now that licences have been added to the Backup Group, a deployment MSI (installer) file can be created from that Backup Group and used to install Backup Clients onto desktop, laptop or server machines. Those installations will enable users to create new Backup Accounts that belong to the Backup Group from which the MSI was deployed. For each Backup Account created, one licence is assigned and the number of remaining licences available for use displays in the **Remaining** column.

Accounts		Licensing		
Licence	Total	Assigned	Remaining	
Desktop and Laptop	0	0	0	
Server Edition	5	0	5	
Web Access	0	0	0	

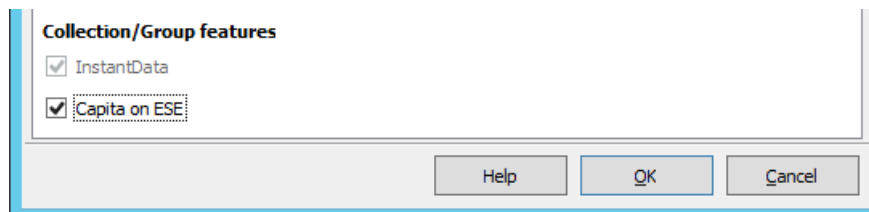
Collection/Group feature licences

Take note of the additional licences that can be allocated to groups at the bottom of the **Licences** tab.



Note: These licences must be enabled on the Collection first before they can be enabled on the Group.

The licences are:

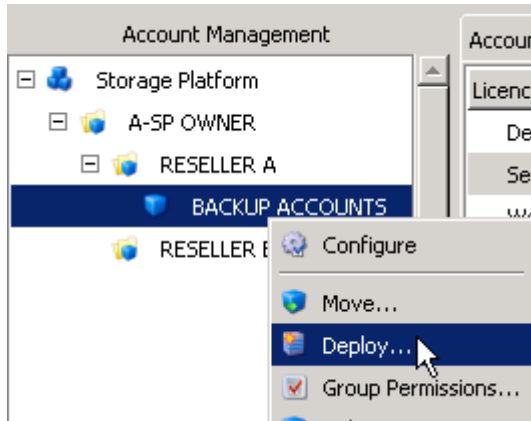


- **InstantData.** Allows connecting to a Backup Account with the InstantData application (see the "InstantData User Manual" for more information)
- **Capita for ESE.** Allows the ESE Backup Client to configure and back up data from the Capita modules.

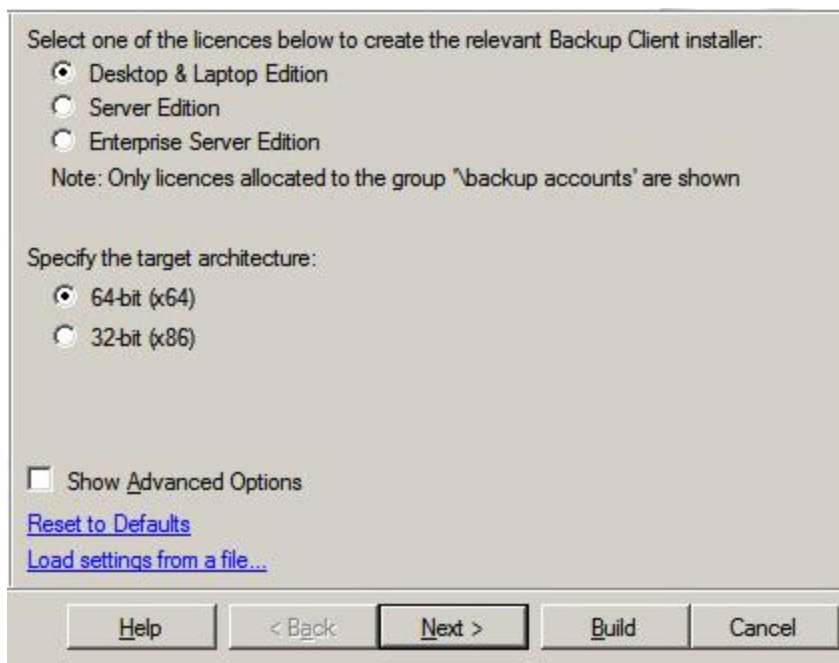
Step 4: Deploy an MSI (installer) file

To deploy an MSI file:

1. In the Account Management view, expand the **Storage Platform** node in the Account Management tree.
2. Right-click the name of the Backup Group to which the new user(s) should belong and then click **Deploy**. The Deployment Wizard will launch.



3. Select the type of Backup Client installation to create, select the folder in which to save the installation, click **Next** and then complete the Deployment Wizard.



For more information, see *Deployment Wizard* in Chapter 6, "Account Management".

After completing the Deployment Wizard, an MSI file will be created. This file can be used to install the Backup Pro Client application, create a Backup Account and initiate the first backup.



Note: For more information on installing the Backup Client application and creating Backup Accounts, please refer to the relevant User Manual (Backup Pro Desktop & Laptop, Server Edition and Enterprise Server Edition User Manuals).

Once the new Backup Account is created via the Backup Client, the Account name will display on the Accounts tab in the Account Management view and users with the correct permissions will be able to manage those Backup Accounts.

Account Management		Accounts Licencing			
<div>Storage Platform</div> <div>A-SP OWNER</div> <div>RESELLER A</div> <div>BACKUP ACCOUNTS</div> <div>RESELLER B</div>		Account Name	Size	Data Protected (last backup)	Data Protected (all backups)
		ACCOUNT01	1.00 GB		
		Total: 1		1.00 GB	



Note: If a new Account is added while you are working on the **Accounts** tab, you may need to refresh the tab to view the latest list. To do this, click the **Refresh** button on the toolbar.

Step 5: Start managing the backup environment

To manage the backup environment:

1. Depending on the type of management to be performed, click the relevant view button in the view selector.



Note: The views available depend on the user access rights assigned to you by your Backup Administrator. As an Admin user, you have access to all the options described below.

Account Management
Storage Platform Configuration
Reports
User Access Management

2. Use the management tools available in the selected view to manage the backup features. For more information on tools, tasks and views, see:
 - Chapter 6, "Account Management"
 - Chapter 7, "Storage Platform Configuration"
 - Chapter 8, "Reports"
 - Chapter 9, "User Access Management"

3. Installation

Installing the SP Console on a computer enables its users to manage the Storage Platform. User Access Management enables you to provide SP access to everyone involved in its administration, with the option of limiting the functionality available to each user.



Note: For the latest system requirements and compatibility information, please refer to the **System Requirements and Compatibility Matrix**.

Setup Wizard

To install the Storage Platform Console:

1. Run the SP Console installer issued to you by your software provider. This will launch the SP Console Setup Wizard.
2. Follow the Setup Wizard steps as described below.



Note:

- The SP Console installer will automatically detect if an earlier version is installed. If so, it will launch any necessary updates. The updated SP Console will retain the display and connection settings of the previous version and use the same directory locations (unless different locations are specified during the installation, in which case it will store the settings in the new Console locations).
- The SP Console installer will run automatically after the Storage Platform installation if located in the same folder as the Storage Platform installer.

The Setup Wizard typically consists of six steps that guide you through a relatively complex task in a simple, step-by-step manner and allow you to undo previous operations by navigating backward.

Step 1 of 6: Start the wizard

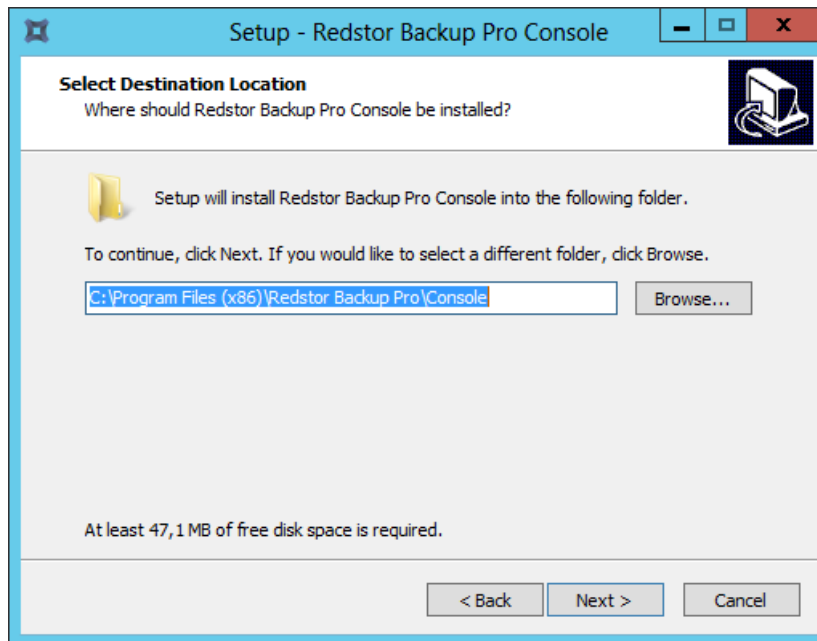
To start the Setup Wizard:

Click **Next** to begin the installation setup.

Step 2 of 6: Select a destination location

To specify where the SP Console should be installed:

- Either accept the default location by clicking **Next**;
- Or click the **Browse** button, specify a different location, and then click **Next**.



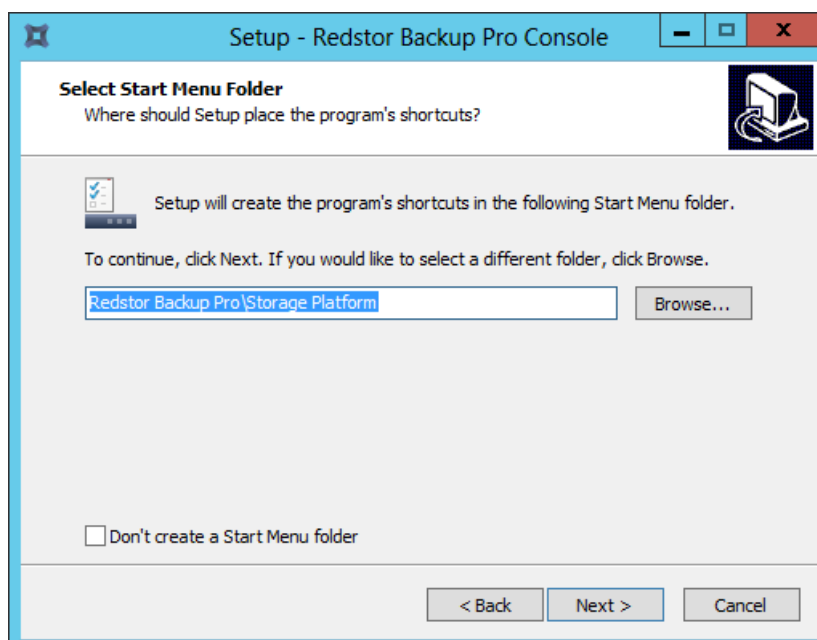
Step 3 of 6: Select a Start menu folder

To select the Start menu location:

- Either accept the default location by clicking **Next**;
- Or click the **Browse** button, specify a different location, and then click **Next**.



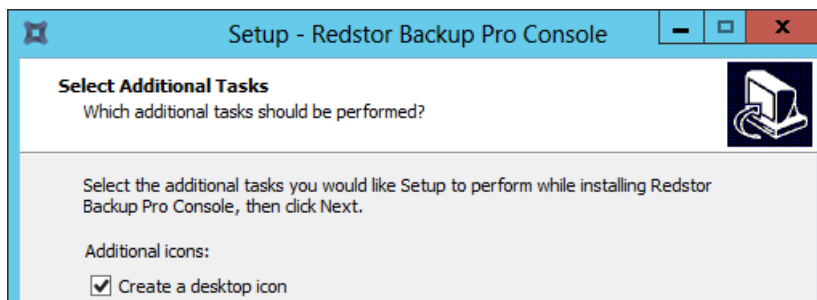
Tip: If you do not wish to add an SP Console menu item to the Start Menu, select the **Don't create a Start Menu** folder check box at the bottom of the wizard screen.



Step 4 of 6: Select additional tasks

To create additional icons:

1. Select whether a Desktop icon should be created.
2. Click **Next** to continue.

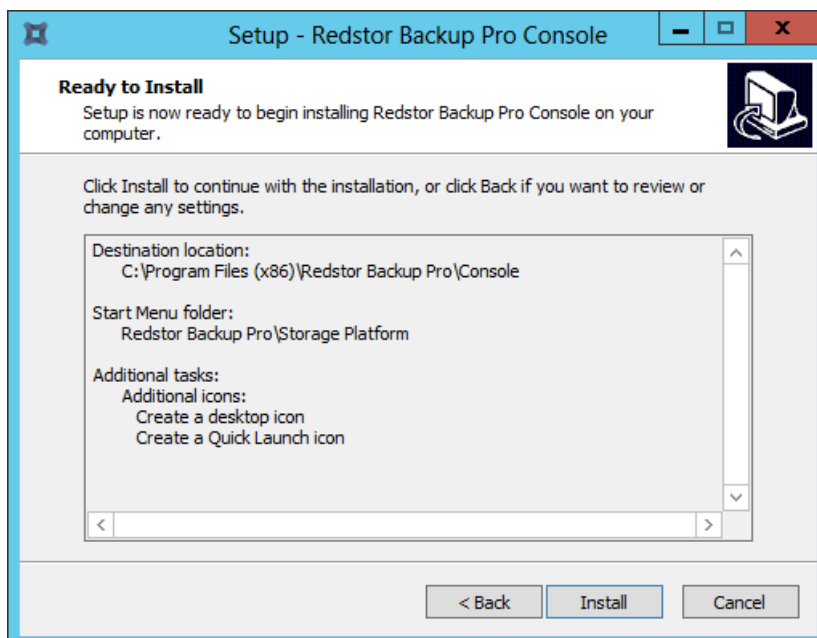


Note: A Desktop icon can also be pinned to the Start bar after the installation.

Step 5 of 6: Begin the installation

To begin the installation:

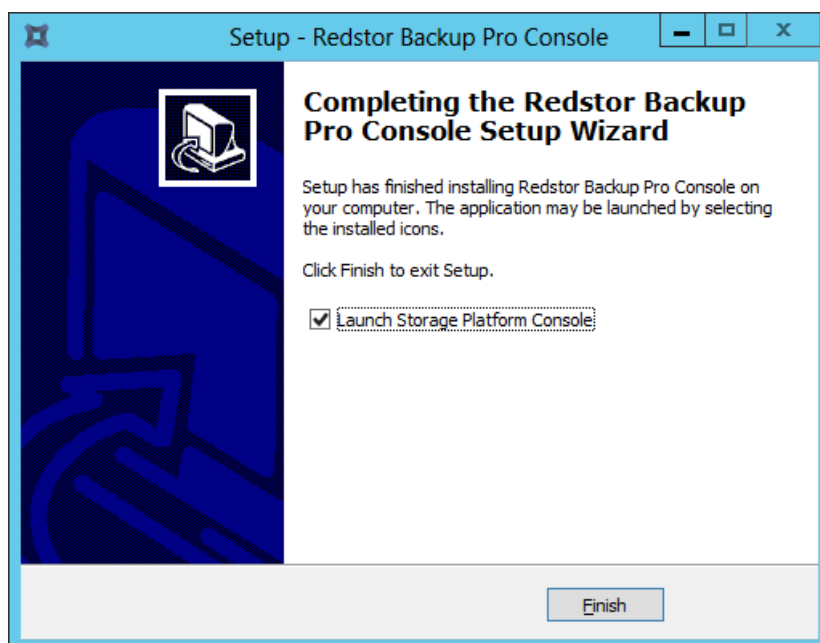
Click **Install**.



Step 6 of 6: Close the wizard

To close the wizard:

1. Ensure that the **Launch Storage Platform Console** check box is selected.
2. Click **Finish**.



4. Connection

Once the Storage Platform Console is installed on a computer, you can open the Graphical User Interface (GUI) and connect to a Storage Platform (via the AccountServer) or directly to a MirrorServer. You can access the GUI via the:

- **Start** menu
- Desktop

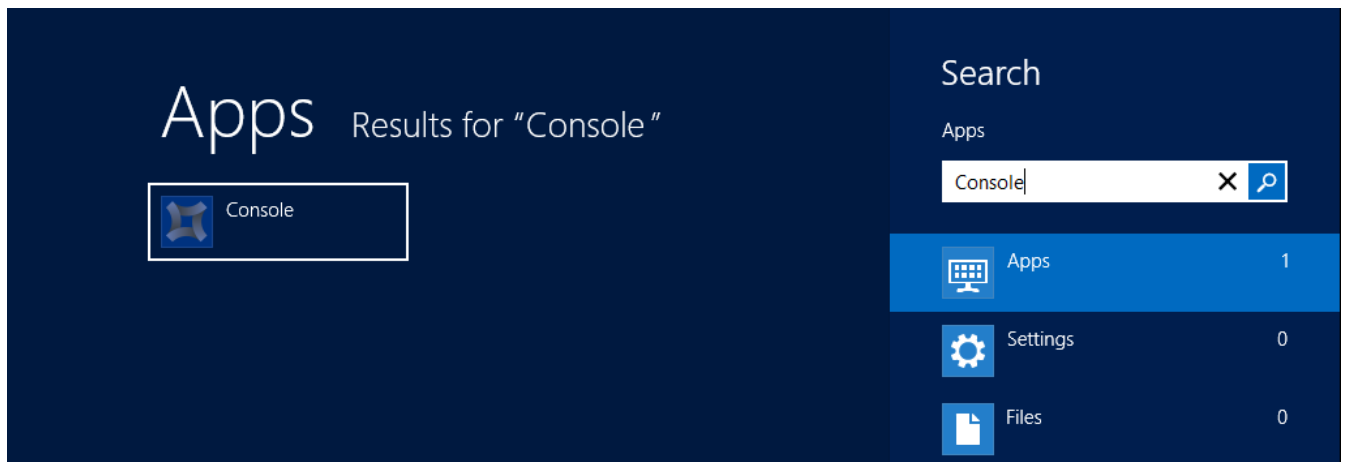


Note: Whether Desktop shortcut is available depends on the option selected during the installation process (see Step 4 of 6: Select additional tasks in Chapter 3, “Installation”).

Opening the GUI

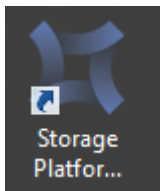
To open the SP Console GUI from the Start menu:

Simply type the word “Console” while in the Start menu.



To open the SP Console from the Desktop:

Double-click the **Storage Platform Console** icon.

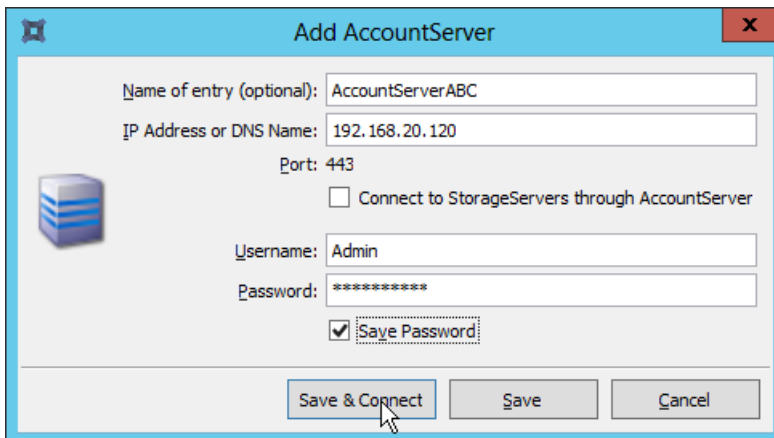


Connecting to a Storage Platform

You can use the SP Console to connect to the Storage Platform via the AccountServer. This ensures that you have access to all the rights and permissions assigned to your Access user role. For more information, see Chapter 9, “User Access Management”.

To connect to a Storage Platform for the first time:

1. When opening the SP Console for the first time, an **Add AccountServer** dialog box appears, enabling you to add the details of the AccountServer to connect to. Type the necessary information in the boxes provided.
2. Select the **Save Password** check box if you wish the SP Console to pre-populate the **Password** box for future connections.
3. Click **Save and Connect** to save the connection details for future use and connect to the AccountServer.



Note: The **Save** button allows you to add multiple AccountServers to the connection list without having to connect to each AccountServer.

Once a connection is established, the SP Console management interface appears, displaying all Backup Account Groups created on the Storage Platform and a host of related management options. For more information on the options available, see “SP Console interface” later in this chapter.

Connecting to a MirrorServer

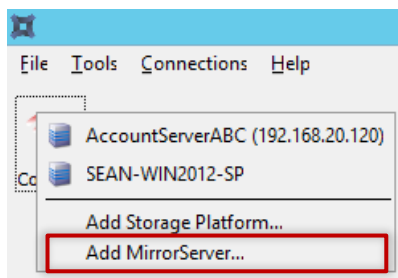
While you can use the SP Console to connect to the Storage Platform via the AccountServer as described above, you can also connect directly to a MirrorServer (MS).



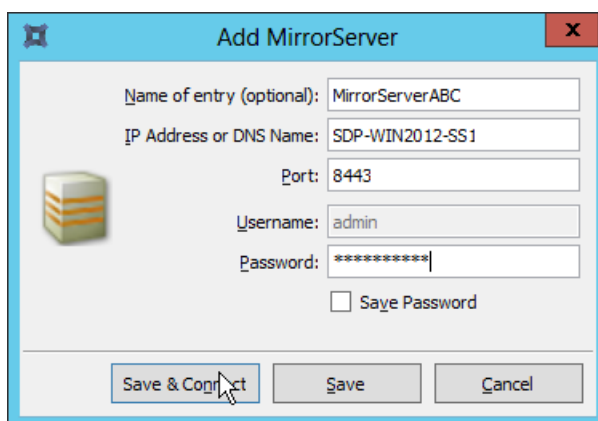
Note: Connecting to a MirrorServer using the method described below will enable you to configure the server without seeing any of the other servers' configuration information in the Console. To see all other servers on the Storage Platform as well, you can connect to a Storage Platform as described above. All MirrorServer(s) in the Storage Platform will be listed beneath their associated StorageServer node(s) in the Storage Platform Configuration tree.

To connect directly to a MirrorServer for the first time:

1. Click the **Connect** button.
2. In the connections list that appears, click **Add MirrorServer**.



3. In the **Add MirrorServer** dialog box that appears, type a display name in the **Name of entry** box.
4. Type the server's IP address or DNS name in the **IP Address or DNS Name** box.
5. In the **Password** box, type the administrator password.
6. Select the **Save Password** check box if you wish the SP Console to pre-populate the **Password** box for future connections.
7. Click **Save & Connect**.



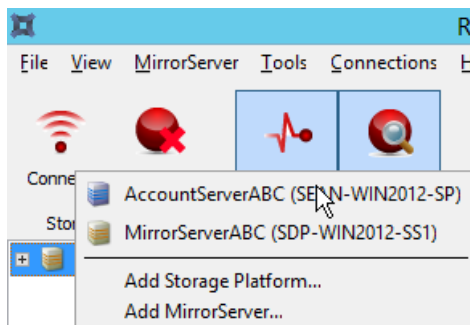


Note:

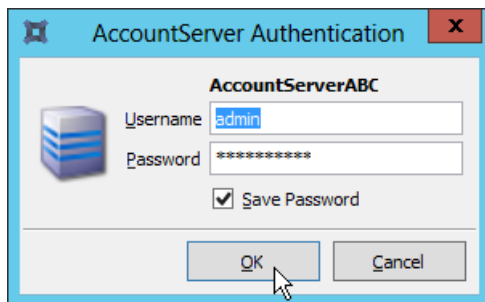
- The **Save** button allows you to add multiple AccountServers to the connection list without having to connect to each AccountServer.
- Access Users logging into the MirrorServer using this method will have limited options available to them, depending on the user permissions granted by the administrator. For more information on user permissions, see Chapter 9, "User Access Management".

To connect to an AccountServer or MirrorServer already added to the SP Console:

1. Click the **Connect** button to view the connection list.



2. Click the name of the AccountServer or MirrorServer you wish to connect to.
3. In the **Authentication** dialog box that appears, type your username and password in the boxes provided.



4. Select the **Save Password** check box if you wish the SP Console to pre-populate the **Password** box for future connections.
5. Click **OK**.

Once a connection is established, the SP Console management interface appears, displaying the server information and providing you with applicable management options.

5. Graphical User Interface (GUI)

You can open the Graphical User Interface using the:

- SP Console **Start** menu item;
- SP Console Desktop icon or

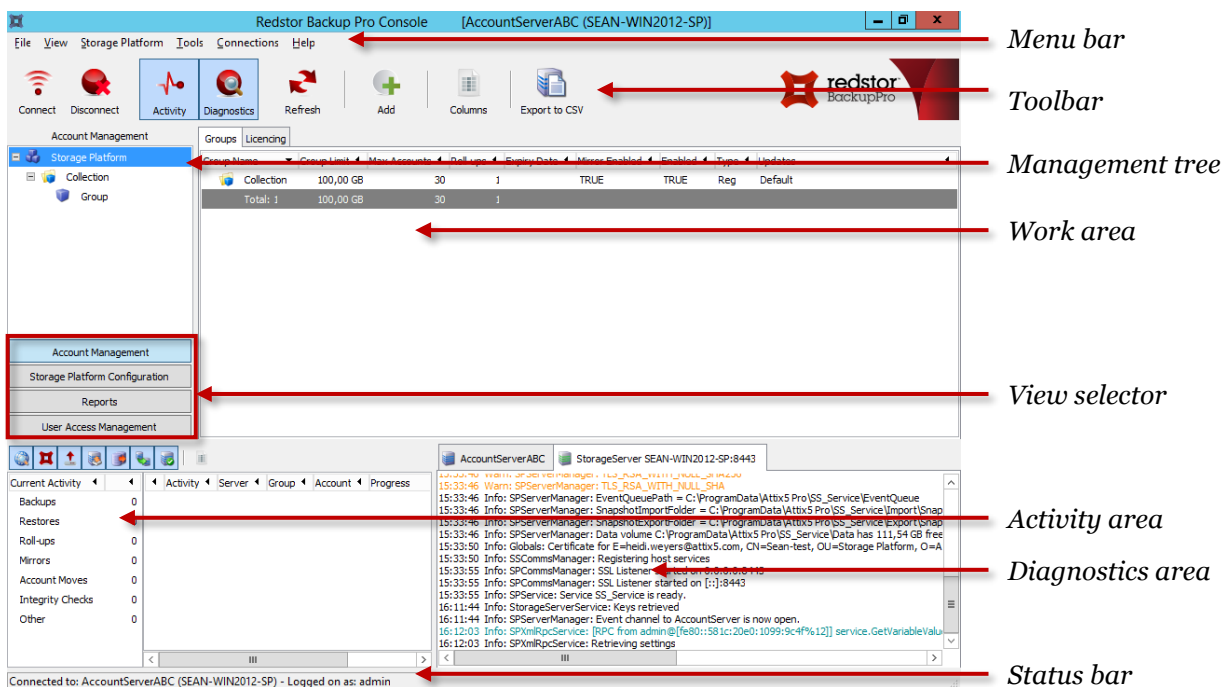


Note: Whether a Desktop shortcut is available depends on the option selected during the installation process (see Step 4 of 6: Select additional tasks in Chapter 3, "Installation").

For more information on opening the GUI, see Chapter 4, "Connection".

SP Console interface

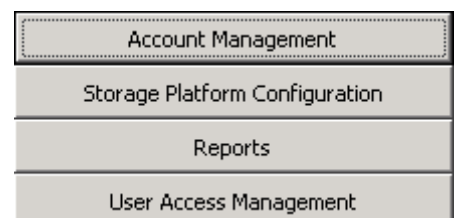
SP Console features and functions are grouped in an easy-to-use layout:



View selector

The view selector enables you to select the SP Console view you wish to work in by clicking the appropriate button.

There are four views available to the admin user.





Note: The views available depend on the user access rights assigned to you by your Backup Administrator. Admin user rights will grant you access to all the views described below. For more information on user permissions, see Chapter 9, “User Access Management”.

SP Console views

Account Management view

Click the **Account Management** button in the view selector to manage Collections, Backup Groups, Backup Accounts, and licencing.

Storage Platform Configuration view

Click the **Storage Platform Configuration** button in the view selector to configure the AccountServer, Storage Pool(s) and StorageServer(s) as well as any MirrorServers and/or Slave AccountServers that form part of your backup environment.

Reports view

Click the **Reports** button in the view selector to manage Standard and Enterprise Reports (if licenced).

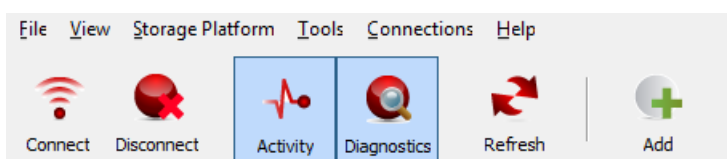
User Access Management view

Click the **User Access Management** button in the view selector to configure Storage Platform user access permissions.



Note: Only the functions and permissions enabled by the Backup Administrator will be available to the user logging in with an audit trail logged. For more information on user permissions, see Chapter 9, “User Access Management”.

Menu bar and toolbar buttons



Menus available in all views



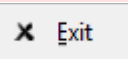
Five menus always display on the menu bar, regardless of the view being worked in:

- File
- View
- Tools

- Connections
- Help

The following tables provide descriptions of the options available in each menu and screenshots of buttons where applicable.

File menu:

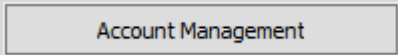

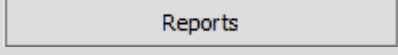
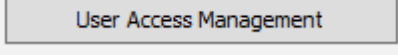
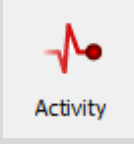

Options	Description	Button
Exit	Click Exit to disconnect from the SP and close the SP Console.	

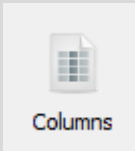

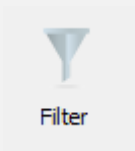
View menu:

Use the **View** menu to switch between different views and show or hide the Activity and Diagnostics areas.

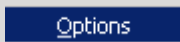




Note: For detailed information on each of the views and areas, see Chapters 5 - 8 as well as “Activity area” and “Diagnostics area” later in this chapter.

Options	Description	Button
Account Management	Click Account Management to switch to the Account Management view.	
Storage Platform Configuration	Click Storage Platform Configuration to switch to the Storage Platform Configuration view.	
Reports	Click Reports to switch to the Reports view.	
User Access Management	Click User Access Management to switch to the User Access Management view.	
Activity	Select Activity to show the Activity area. Deselect Activity to hide the area. For more information on the Activity display options, see “Activity area” later in this chapter.	
Diagnostics	Select Diagnostics to show the Diagnostics area. Deselect Diagnostics to hide the area. For more information on the Diagnostics display options, see “Diagnostics” later in this chapter.	

Options	Description	Button
Customise Columns	Click Customise Columns to access the list of columns available for display in the work area. All columns display by default. To hide any columns, clear the check boxes next to their column heading names.	 Columns
Filter Accounts	<p>Click Filter Accounts to access the Select Licences to Display in Groups dialog box. You can use the options available to filter the Groups/Accounts that display based on the licences they possess.</p> <p> Note: This option is only available when a Backup Group/Account is selected in the Account Management view.</p>	 Filter

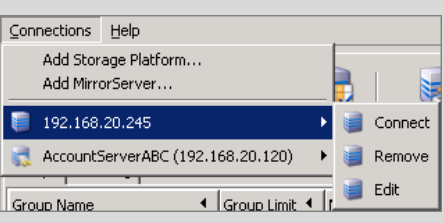
Tools menu:

Options	Description	Button
Options	<p>Click Options to access the Options dialog box, which allows you to configure the SP connection, display, and fixed views settings.</p> <p>Connection tab:</p> <p>The Connection tab allows you to specify the Internet connection settings. Select the type of configuration to use, specify additional information if required, and then click OK to save your settings.</p> <p>Display tab:</p> <p>The Display tab provides a range of different display settings.</p> <ul style="list-style-type: none"> In the Colour Options area, you can configure the SP Console to provide a visual alert when certain parameters are met in the Account Management pane by displaying items in particular colours. These colours may be changed according to your preferences by clicking the relevant colour box, selecting a new colour, and then clicking OK. <p>Colour options and default settings:</p> <ul style="list-style-type: none"> Number of days since last backup with 7 days and red as the default Percentage of account limit used set to 90% and orange as the default. Disabled group with red selected as the default Disabled account with grey selected as the default User over limit with yellow selected as the default Grid Lines with a very light blue (#F0F0FF) selected as the default <ul style="list-style-type: none"> In the Plug-ins area, you can choose how plug-in information displays in the 	 Options

Options	Description	Button
	<p>Account Management view's Plug-ins column. The default selection, Combo box, displays the plug-in names in a drop-down list if more than one plug-in is installed. The List option displays plug-in names in a list format; one plug-in name per line.</p> <ul style="list-style-type: none"> In the Main Toolbar area, you can specify the preferred style of the toolbar. (E.g. Select Icons Only to remove the toolbar text.) <p>Fixed Views tab</p> <p>The Fixed Views tab enables you to choose whether the Activity and Diagnostics areas must be displayed as additional views in the view selector or whether they should always be visible at the bottom of the Storage Platform Console. As with the main toolbar, you can change the style and icon size. You can also choose the layout of the two sections in the Orientation area. For more information on the Activity and Diagnostics areas, see "Activity area" and "Diagnostics area" later in this chapter.</p>	
Export to CSV	<p>Click Export to CSV to export the Backup Groups and Backup Accounts information on the Accounts tab to a CSV file.</p> <div>  <p>Note: This option is only available when a Backup Group or Account is selected in the Account Management view.</p> </div>	 Export to CSV

Connections menu:

The Connections menu enables you to add, remove and edit AccountServers within the Storage Platform.

Options	Description	Button
Add Storage Platform	Click Add Storage Platform to add a Storage Platform connection to the SP Console.	
Add MirrorServer	Click Add MirrorServer to add a MirrorServer connection to the SP Console.	
<AccountServer>	<p>The Connections menu lists all AccountServers that the SP Console has been configured to connect to.</p> <p>Point to the name of an AccountServer to access Connect, Remove and Edit options. For more information, see AccountServer in Chapter 7, "Storage Platform Configuration".</p>	

Help menu:

The Connections menu enables you to add, remove and edit AccountServers within the Storage Platform.

Options	Description
Product Help	Click Product Help to open the Storage Platform Console Product Help panel. This panel, which displays to the right of the work area (see “SP Console interface” earlier in this chapter), provides intuitive help related to the pane you are working in.

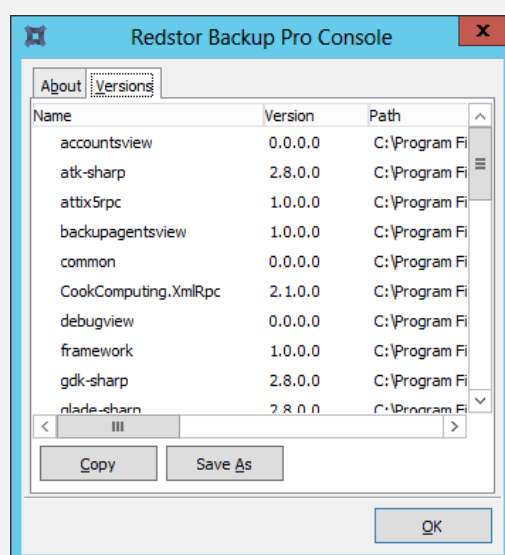
Click **About** to view the Backup Pro Storage Platform Console splash screen and to access the **Versions** tab, which contains a list of all installed DLLs and their version numbers.

Splash screen:





About


Versions tab:



Copy button: Click the **Copy** button to copy the contents of the tab to the Clipboard. You can then paste it into another text application such as Notepad.

Save As button: Click the **Save As** button to save a text version of the **Versions** tab contents.

Options	Description																																																						
	<p>After you have manually updated the AccountServer, you can use the Manage Updates option to update associated StorageServers and MirrorServers from the SP Console.</p> <div><div></div><div><p>Note:</p><ul style="list-style-type: none">Slave ASs and shared MirrorServers cannot be selected to update. However, if a single SS/MS is selected, all Slave AccountServers/StorageServers/MirrorServers on the same server will be updated.Only StorageServers and MirrorServers installed via the Storage Platform installer can be updated using this feature.Only MirrorServers that are mirrored to using the “admin” account can be updated using this feature.</div></div> <p>Click Manage Updates to launch the Storage Platform Version Report in a web browser.</p> <div><div></div><div><p>Note: A certificate error is expected at this point. It is safe to proceed.</p></div></div> <p>The report details the latest version of the Storage Platform that is available (the version of the AccountServer that you manually updated) as well as the versions of all the StorageServers (grouped per Storage Pool) and MirrorServers linked to the AccountServer. It provides the option to update each component that is not on the latest version. The report also supplies a range of other information, such as the components’ IP and port, online status, version and update status.</p> <div><div><h3>Report from AccountServer: WIN-SP4L3FMMTGO</h3><p>Latest version available: 8.15.604.9532</p><div>Selection (all/none)</div><div><h4>Account Servers</h4><table><tr><th>Server</th><th>Ip and Port</th><th>Online</th><th>Version</th><th>Status</th><th>Selection (all/none)</th></tr><tr><td>AccountServer</td><td>0.0.0.0:443</td><td>Online</td><td>8.15.604.9532</td><td>✓</td><td><input type="checkbox"/></td></tr><tr><td>SlaveAccountServer</td><td>Develop:443</td><td>Online</td><td>8.15.603.14502</td><td>Outdated</td><td><input type="checkbox"/></td></tr></table></div><div><h4>Storage Servers in Storage</h4><table><tr><th>Server</th><th>Ip and Port</th><th>Online</th><th>Version</th><th>Status</th><th>Selection (all/none)</th></tr><tr><td>StorageServer</td><td>develop1:8446</td><td>Online</td><td>8.15.603.14502</td><td>Outdated</td><td><input checked="" type="checkbox"/></td></tr><tr><td>StorageServer</td><td>develop1:8447</td><td>Online</td><td>8.15.603.14502</td><td>Outdated</td><td><input checked="" type="checkbox"/></td></tr><tr><td>StorageServer</td><td>WIN-SP4L3FMMTGO:8447</td><td>Online</td><td>8.15.604.9532</td><td>✓</td><td><input type="checkbox"/></td></tr></table></div><div><h4>Storage Servers in Storage Pool 2</h4><table><tr><th>Server</th><th>Ip and Port</th><th>Online</th><th>Version</th><th>Status</th><th>Selection (all/none)</th></tr><tr><td>StorageServer</td><td>develop1:8445</td><td>Online</td><td>8.15.603.14502</td><td>Outdated</td><td><input type="checkbox"/></td></tr></table></div></div></div> <p>To update a StorageServer or MirrorServer, select it in the Selection column and click Update. You can cancel any updates by selecting the appropriate component and clicking Cancel.</p>	Server	Ip and Port	Online	Version	Status	Selection (all/none)	AccountServer	0.0.0.0:443	Online	8.15.604.9532	✓	<input type="checkbox"/>	SlaveAccountServer	Develop:443	Online	8.15.603.14502	Outdated	<input type="checkbox"/>	Server	Ip and Port	Online	Version	Status	Selection (all/none)	StorageServer	develop1:8446	Online	8.15.603.14502	Outdated	<input checked="" type="checkbox"/>	StorageServer	develop1:8447	Online	8.15.603.14502	Outdated	<input checked="" type="checkbox"/>	StorageServer	WIN-SP4L3FMMTGO:8447	Online	8.15.604.9532	✓	<input type="checkbox"/>	Server	Ip and Port	Online	Version	Status	Selection (all/none)	StorageServer	develop1:8445	Online	8.15.603.14502	Outdated	<input type="checkbox"/>
Server	Ip and Port	Online	Version	Status	Selection (all/none)																																																		
AccountServer	0.0.0.0:443	Online	8.15.604.9532	✓	<input type="checkbox"/>																																																		
SlaveAccountServer	Develop:443	Online	8.15.603.14502	Outdated	<input type="checkbox"/>																																																		
Server	Ip and Port	Online	Version	Status	Selection (all/none)																																																		
StorageServer	develop1:8446	Online	8.15.603.14502	Outdated	<input checked="" type="checkbox"/>																																																		
StorageServer	develop1:8447	Online	8.15.603.14502	Outdated	<input checked="" type="checkbox"/>																																																		
StorageServer	WIN-SP4L3FMMTGO:8447	Online	8.15.604.9532	✓	<input type="checkbox"/>																																																		
Server	Ip and Port	Online	Version	Status	Selection (all/none)																																																		
StorageServer	develop1:8445	Online	8.15.603.14502	Outdated	<input type="checkbox"/>																																																		
Manage Updates																																																							

Options	Description
	 <p>Note: While an update is in progress, the online status will change to offline for the duration of the upgrade.</p> <p>The status column can show one of the following:</p> <ul style="list-style-type: none"> • Check mark – Indicates that the component is using the latest version • Queued – Indicates that the component is queued for update • Outdated – Indicates that there is a newer version available

Context-sensitive menus and toolbar buttons

The following menus are only available on the menu bar when you are working in their corresponding views:

- **Storage Platform/Collection/Group/Account** – Available in the Account Management view.
- **AccountServer/StorageServers/StorageServer/MirrorServer/Slave AccountServers/Slave AccountServer** – Available in the Storage Platform Configuration view.
- **Reports** – Available in the Reports view.
- **Access Users/Access Groups/Roles** – Available in the User Access Management view.



Note: For an overview of the views available, see “SP Console views” earlier in this chapter. For detailed descriptions of the functions in each view, see Chapters 5-8.

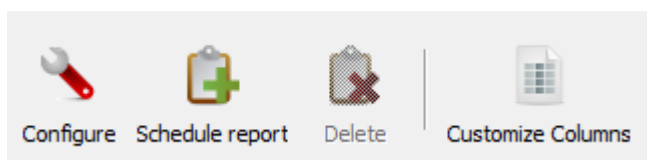
The toolbar buttons available are also dependent on the view selected in the view selector.



Example: When you click the **Account Management** button in the view selector and you select a Group in the Account Management tree, Group-related management buttons display on the toolbar:



However, when you click the **Reports** button, the toolbar changes to display report-related buttons:



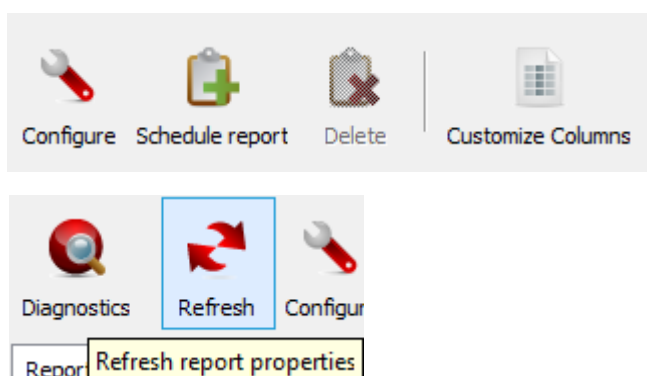
Tip: Mouse-over comments are provided for additional information about the enabled toolbar buttons. Simply move the mouse pointer over a toolbar button; the comment will be displayed within a second.



Example: When you click the **Account Management** button in the view selector and you select a Group in the Account Management tree, Group-related management buttons display on the toolbar:

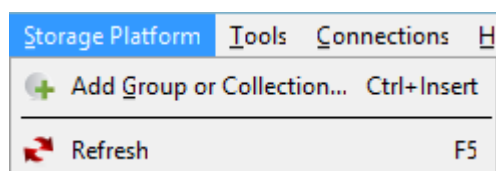


However, when you click the **Reports** button, the toolbar changes to display report-related buttons:





Storage Platform menu (Account Management view)

When **Storage Platform** is selected in the Account Management tree, the **Storage Platform** menu is available on the menu bar.

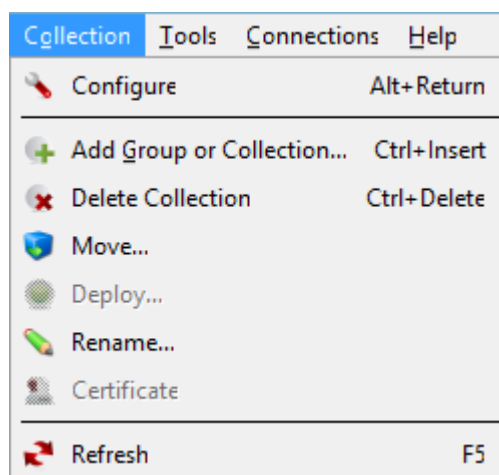


Storage Platform menu





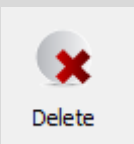
Options	Description	Toolbar Button
Add Group or Collection	Click Add Group or Collection to add a new Backup Group or Collection to the SP Console. For more information, see <i>Collections and Backup Groups</i> in Chapter 6, "Account Management".	 Add
Refresh	Click Refresh to refresh the Account Management tree and the work area. The Console will connect to the AccountServer, retrieve the Group Data List and then update all information displayed.	 Refresh



Collection menu (Account Management view)

When a Collection is selected in the Account Management tree, the Collection menu is available on the menu bar.



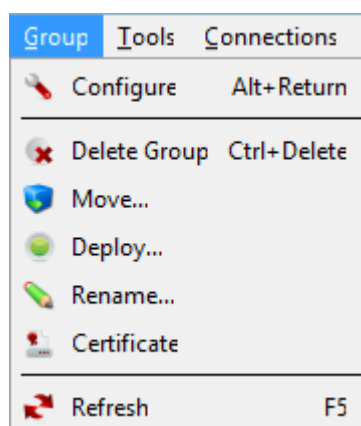
Collection menu

Options	Description	Toolbar Button
Configure	<p>Click Configure to access the Configure Collection dialog box that enables you to change the Collection settings.</p> <div>  <p>Note: To edit a Collection's settings, you need to select the Collection in the Account Management tree. Once the Collection is selected, the Configure button on the toolbar will activate.</p> </div> <p>For more information on configuring Collections, see <i>Collections</i> in Chapter 6, "Account Management".</p>	
Add Group or Collection	<p>Click Add Group or Collection to add a new Backup Group or Collection to the SP Console. For more information, see <i>Collections</i> and <i>Backup Groups</i> in Chapter 6, "Account Management".</p>	
Delete Collection	<p>Click Delete Collection to delete a Collection from the SP Console.</p> <div>  <p>Warning: Deleting a Collection will remove all information about the Collection from the SP Console.</p> </div>	



Options	Description	Toolbar Button
Move	<p>Click Move to move the Collection to another Collection.</p> <div>  <p>Note: All licences allocated to the Collection will be moved to the target Collection.</p> </div>	
Refresh	<p>Click Refresh to refresh the Account Management tree and the work area. The Console will connect to the AccountServer, retrieve the Group Data List and update all information displayed.</p>	 Refresh






Group menu (Account Management view)

When a Group is selected in the Account Management tree, the Group menu is available on the menu bar.



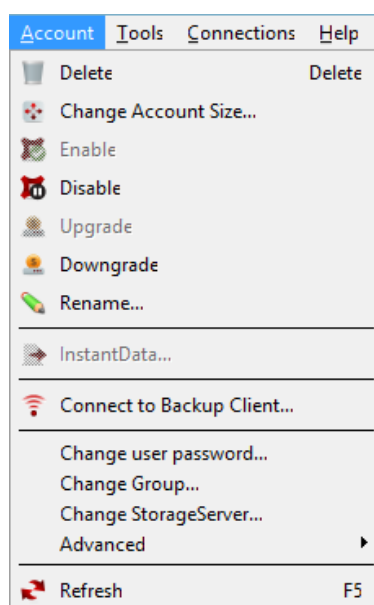
Group menu

Options	Description	Toolbar Button
Configure	<p>Click Configure to access the Configure Group dialog box that enables you to change the Group settings.</p> <div>  <p>Note: To edit a Group's settings, you need to select the Group name in the Account Management tree. Once selected, the Configure button on the toolbar will activate.</p> </div> <p>For more information on configuring Groups, see <i>Backup Groups</i> in Chapter 6, "Account Management".</p>	 Configure








Options	Description	Toolbar Button
Delete Group	<p>Click Delete Group to delete a Backup Group from the SP Console.</p> <div>  <p>Warning: Deleting a Backup Group will remove all information about the Group from the SP Console.</p> </div>	 Delete
Deploy	<p>Click Deploy to access the Deployment Wizard, which allows you to create a Client deployment file for the selected Backup Group.</p> <p>For more information on creating Client deployment files, see Deployment Wizard in Chapter 6, "Account Management".</p>	 Deploy
Keys	Click Keys to view keys for Backup Group certificates.	
Move	Click Move to move the Group between Collections. For more information, see Moving Groups in Chapter 6, "Account Management".	
Refresh	Click Refresh to refresh the Account Management tree and the work area. The Console will connect to the AccountServer, retrieve the Group Data List and update all information displayed.	 Refresh




Account menu (Account Management view)


When an Account is selected in the Account Management view's work area, the **Account** menu is available on the menu bar.



Account menu

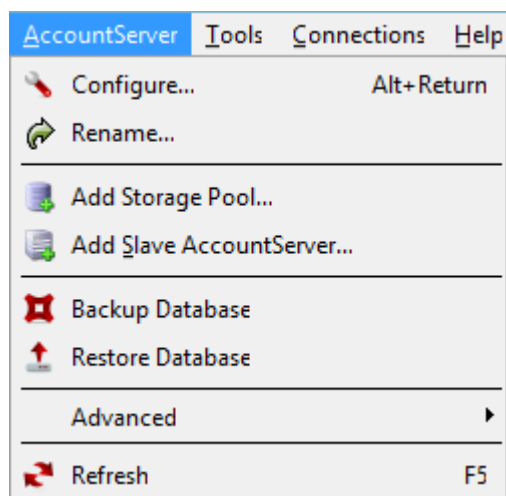
Options	Description	Toolbar Button
Change Account Size	<p>This option enables you to change the limit applied to the amount of data that the Account is allowed to back up (in GB).</p> <p>For more information, see <i>Changing an Account's size</i> in Chapter 6, "Account Management".</p>	 Size
Enable	<p>Click this button to enable an Account, thereby allowing it to back up to the Storage Platform.</p> <p>For more information, see <i>Enabling an Account</i> in Chapter 6, "Account Management".</p>	 Enable
Disable	<p>Click this button to disable a Backup Account, thereby preventing it from backing up to the Storage Platform.</p> <p>For more information, see <i>Disabling an Account</i> in Chapter 6, "Account Management".</p>	 Disable
Upgrade	<p>Click this button to upgrade the Backup Account from Evaluation to Registered status.</p> <p>For more information, see <i>Upgrading an Account</i> in Chapter 6, "Account Management".</p>	 Upgrade
Downgrade	<p>Click this button to downgrade the Backup Account from Registered to Evaluation status.</p> <p>For more information, see <i>Downgrading an Account</i> in Chapter 6, "Account Management".</p>	 Downgrade
Rename	<p>This option enables you to change the display name of the Backup Account.</p> <div data-bbox="555 1480 673 1597">  </div> <p>Note: At the next backup or restore, the Backup Client will adopt the new name and update its details accordingly.</p> <p>For more information, see <i>Renaming a Backup Account</i> in Chapter 6, "Account Management".</p>	
Delete	<p>Click this button to permanently delete the Backup Account and all backup sets belonging to it.</p> <p>For more information, see <i>Adding and deleting Accounts</i> in Chapter 6, "Account Management".</p>	 Delete

Options	Description	Toolbar Button
InstantData...	<p>This option will start the InstantData application in order to gain immediate access to data of a specific Backup Account. Refer to the <i>InstantData User Manual</i> for more information.</p> <div>  <p>Note: This option is only available if the necessary licences have been allocated to the Backup Group.</p> </div>	 InstantData
Connect to Backup Client	<p>This option enables you to connect to the Backup Client remotely. For more information, see Remote management in Chapter 6, "Account Management".</p> <div>  <p>Note: This option is not valid for Enterprise Server Edition Backup Clients.</p> </div>	
Change user password	<p>Click this option to access the Change password... dialog box that enables you to provide a new user password for an Account user. For more information, see Changing a user password in Chapter 6, "Account Management".</p>	
Change Group	<p>This option enables you to change the Backup Group that the Backup Account belongs to. For more information, see Changing the Backup Group in Chapter 6, "Account Management".</p>	
Change StorageServer	<p>This option enables you to change the StorageServer that the Backup Account belongs to. For more information, see Changing the StorageServer in Chapter 6, "Account Management".</p>	
Advanced > Import Backup Snapshot	<p>This option enables you to import a Snapshot backup. For more information, see Importing a Backup Snapshot in Chapter 6, "Account Management".</p>	
Advanced > Export Restore Snapshot	<p>This option enables you to export a Snapshot. For more information, see Exporting a Restore Snapshot in Chapter 6, "Account Management".</p>	
Advanced > Integrity Checks > Initiate Integrity Check now	<p>Use this option to manually initiate Integrity Checks. For more information, see Performing/Scheduling Integrity Checks in Chapter 6, "Account Management".</p>	
Advanced > Integrity Checks > Schedule an Integrity Check	<p>Use this option to schedule automatic Integrity Checks. For more information, see Performing/Scheduling Integrity Checks in Chapter 6, "Account Management".</p>	
Advanced > Override Storage Server IP	<p>Use this option to override the StorageServer IP address. For more information, see Overriding the StorageServer IP in Chapter 6, "Account Management".</p>	



Options	Description	Toolbar Button
Advanced > Copy Account Guid to Clipboard	Use this option to copy the Backup Account GUID to the Clipboard. Only available by right-clicking a Backup Account.	
Refresh	Click Refresh to refresh the Account Management tree and the work area. The Console will connect to the AccountServer, retrieve the Group Data List and update all information displayed.	 Refresh


AccountServer menu (Storage Platform Configuration view)

When **AccountServer** is selected in the Storage Platform Configuration tree, the **AccountServer** menu is available on the menu bar.



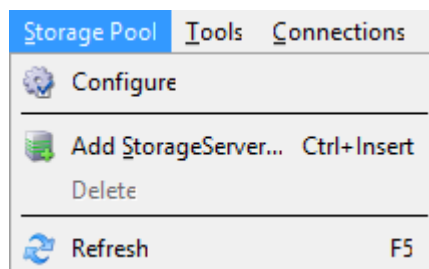
AccountServer menu

Options	Description	Toolbar button
Configure...	Click Configure to access the Configure AccountServer dialog box that enables you to change the AccountServer settings. For more information on configuring the AccountServer, see <i>AccountServer</i> in Chapter 7, "Storage Platform Configuration".	 Configure
Rename...	You can use this option to change the AccountServer display name.  Tip: Use this option to specify a "friendly name" for the server. This name will be displayed in the Account Management tree instead of the IP address.	




Options	Description	Toolbar button
Add Storage Pool...	<p>This option enables you to add a Storage Pool to the Storage Platform.</p> <p>For more information, see <i>Storage Pools</i> in Chapter 7, “Storage Platform Configuration”.</p>	 Add Storage Pool
Add Slave AccountServer	<p>This option enables you to add a Slave AccountServer to the Storage Platform.</p> <p>For more information, see <i>Adding and removing Slave AccountServers</i> in Chapter 7, “Storage Platform Configuration”.</p>	
Backup Database	<p>This option enables you to back up the AccountServer database.</p> <p>For more information, see <i>Backing up/restoring the AccountServer database</i> in Chapter 7, “Storage Platform Configuration”.</p>	 Backup DB
Restore Database	<p>This option enables you to restore the AccountServer database using the latest database backup.</p> <p>For more information, see <i>Backing up/restoring the AccountServer database</i> in Chapter 7, “Storage Platform Configuration”.</p>	 Restore DB
Advanced > Update Licence Info	<p>Click this option to retrieve the latest activation data from the LicenceServer.</p> <p>For more information, see <i>Updating licence information</i> in Chapter 7, “Storage Platform Configuration”.</p>	
Advanced > Activation Information	<p>This option enables you to view an online page displaying the LicenceServer activation information.</p> <p>For more information, see <i>Viewing activation information</i> in Chapter 7, “Storage Platform Configuration”.</p>	 Activation
Advanced > Change Master Password	<p>This option enables you to change the password for the AccountServer, StorageServers, Slave AccountServers and MirrorServers that form the Storage Platform.</p> <p>For more information, see <i>Master password</i> in Chapter 7, “Storage Platform Configuration”.</p>	
Advanced > Restart Service	<p>Restart the Windows service of the AccountServer from this menu item.</p>	
Refresh	<p>Click Refresh to refresh the Storage Platform Configuration tree. The SP Console will connect to the AccountServer and StorageServer and update all information displayed.</p>	 Refresh

Storage Pool menu (Storage Platform Configuration view)

When a **Storage Pool** is selected in the Storage Platform Configuration tree, the **Storage Pool** menu is available on the menu bar.

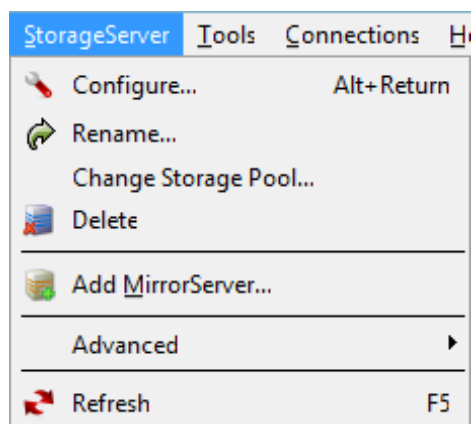


Storage Pool menu




Options	Description	Toolbar Button
Configure	Click Configure to access the Configure Storage Pool dialog box that enables you to change the Storage Pool settings. For more information on configuring a Storage Pool, see <i>Storage Pools in Chapter 7, "Storage Platform Configuration"</i> .	 Configure
Add StorageServer	This option enables you to add a StorageServer to the Storage Platform. For more information, see <i>Adding, removing and renaming StorageServers in Chapter 7, "Storage Platform Configuration"</i> .	 Add SS
Delete	Click Delete to remove the Storage Pool from the Storage Platform.  Note: All StorageServers must be removed from a Storage Pool before it can be deleted.	
Refresh	Click Refresh to refresh the Storage Platform Configuration tree. The SP Console will connect to the AccountServer and StorageServer and update all information displayed.	 Refresh



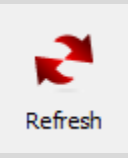
StorageServer menu (Storage Platform Configuration view)

When a StorageServer name is selected in the Storage Platform Configuration tree, the **StorageServer** menu is available on the menu bar.



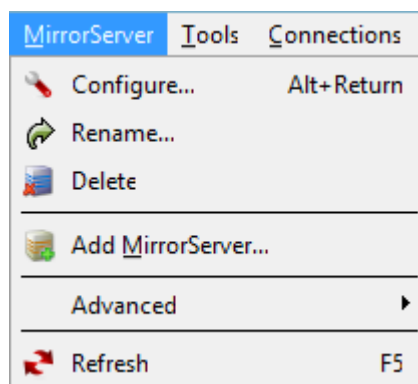
StorageServer menu

Options	Description	Toolbar Button
Configure	Click Configure to access the Configure StorageServer dialog box that enables you to change the StorageServer settings. For more information on configuring the AccountServer, see <i>StorageServers</i> in Chapter 7, "Storage Platform Configuration".	
Rename	You can use this option to change the StorageServer's display name.  Tip: You can use this option to specify a "friendly name" for the server. This name will be displayed in the Storage Platform Configuration tree, alongside the IP address.	
Change Storage Pool...	This setting allocates a StorageServer to a different Storage Pool. It is useful in instances where the disk usage threshold of a StorageServer has changed and needs to be group under a different Storage Pool.	
Delete	Click Delete to remove the StorageServer from the Storage Platform.	
Add MirrorServer	You can use this option to add a MirrorServer to the StorageServer. For more information, see <i>MirrorServers</i> in Chapter 7, "Storage Platform Configuration".	
Advanced > Change StorageServer address	You can use this option to change the StorageServer IP address and port number. For more information, see <i>Managing the StorageServer IP address</i> in Chapter 7, "Storage Platform Configuration".  Warning: This option should be used with caution. It will redirect all Backup Clients that previously backed up to the StorageServer to the new address.	




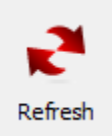
Options	Description	Toolbar Button
Advanced > Lock StorageServer	<p>Click this option to lock the StorageServer, thereby preventing any new Backup Accounts from being added to it automatically.</p> <div>  <p>Note: When locked, the menu item will change to Unlock StorageServer, enabling you to allow Backup Accounts to be added the StorageServer again.</p> </div>	
Advanced > Start Cleanup	Click this option to remove all duplicate files on the StorageServer.	
Advanced > Restart Service	Restart the Windows service of the StorageServer from this menu item.	
Advanced > InstantData...	<p>This option will start the InstantData application in order to gain immediate access to data of a specific Backup Account. Data is made available from a virtual drive. Refer to the <i>InstantData User Manual</i> for more information.</p> <div>  <p>Note: This option is only available if the necessary licences have been allocated to the Backup Group.</p> </div>	
Refresh	Click Refresh to refresh the Storage Platform Configuration tree. The Console will connect to the AccountServer and StorageServer and update all information displayed.	

MirrorServer menu (Storage Platform Configuration view)

When a MirrorServer name is selected in the Storage Platform Configuration tree, the **MirrorServer** menu is available on the menu bar.

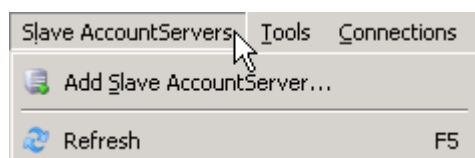


MirrorServer menu


Options	Description	Toolbar Button
Configure	Click Configure to access the Configure MirrorServer dialog box that enables you to change the MirrorServer settings. For more information on configuring the MirrorServer, see <i>MirrorServers</i> in Chapter 7, "Storage Platform Configuration".	
Rename	You can use this option to change the MirrorServer's display name.  Tip: You can use this option to specify a "friendly name" for the server. This name will be displayed in the Storage Platform Configuration tree, alongside the IP address.	
Delete	Click Delete to remove the MirrorServer from the Storage Platform.	
Add MirrorServer	You can use this option to add a MirrorServer to the MirrorServer. For more information, see <i>MirrorServers</i> in Chapter 7, "Storage Platform Configuration".	
Advanced > Change StorageServer address	You can use this option to change the MirrorServer IP address and port number. For more information, see <i>Managing the MirrorServer IP address</i> in Chapter 7, "Storage Platform Configuration".  Warning: Warning against potential mistakes and actions that could cause critical error.	
Advanced > Start Cleanup	Click this option to remove all duplicate files on the MirrorServer.	
Refresh	Click Refresh to refresh the Storage Platform Configuration tree. The Console will connect to the AccountServer and MirrorServer and update all information displayed.	

Slave AccountServers menu (Storage Platform Configuration view)

When the **Slave AccountServers** node is selected in the Storage Platform Configuration tree, the **Slave AccountServers** menu is available on the menu bar.

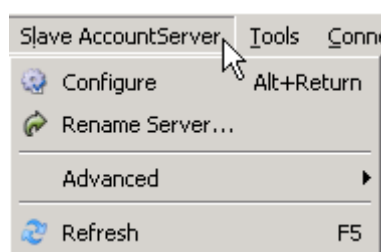


Slave AccountServers menu



Options	Description	Toolbar Button
Add Slave AccountServer	This option enables you to add a Slave AccountServer to the Storage Platform. For more information, see Adding and removing Slave AccountServers in Chapter 7, "Storage Platform Configuration".	
Refresh	Click Refresh to refresh the Storage Platform Configuration tree. The SP Console will connect to the AccountServer and Slave AccountServer and then update all information displayed.	 Refresh


Slave AccountServer menu (Storage Platform Configuration view)

When a Slave AccountServer name is selected in the Storage Platform Configuration tree, the **Slave AccountServer** menu is available on the menu bar.



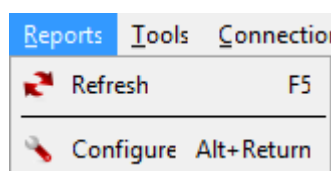
Slave AccountServer menu

Options	Description	Toolbar Button
Configure	Click Configure to access the Configure AccountServer dialog box that enables you to change the AccountServer settings. For more information on configuring the AccountServer, see <i>Slave AccountServer</i> in Chapter 7, "Storage Platform Configuration".	 Configure
Rename	You can use this option to change the Slave AccountServer display name.  Tip: You can use this option to specify a "friendly name" for the server. This name will be displayed in the Storage Platform Configuration tree alongside of the IP address.	
Advanced > Update Licence Info	Click this option to retrieve the latest activation data from the LicenceServer. For more information, see <i>Updating licence information</i> in Chapter 7, "Storage Platform Configuration".	
Advanced >	This option enables you to change the password for all Slave	



Options	Description	Toolbar Button
Change Master Password	AccountServer(s), main AccountServer(s), StorageServer(s), and MirrorServer(s) that form the Storage Platform. For more information, see Master password in Chapter 7, “Storage Platform Configuration”.	
Refresh	Click Refresh to refresh the Storage Platform Configuration tree. The SP Console will connect to the AccountServer and Slave AccountServer and then update all information displayed.	 Refresh

Reports menu (Reports view)

In the Reports view, the **Reports** menu is available on the menu bar.



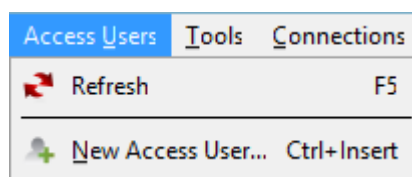
Reports menu

Options	Description	Toolbar Button
Refresh	Click Refresh to retrieve the latest figures from the AccountServer and update the information displayed in the work area accordingly.	 Refresh
Configure	Click Configure to modify the general report properties or to configure a specific report's settings: Modifying general report properties: <ol style="list-style-type: none"> 1. In the Reports tree, select Standard or Enterprise and then click Configure. 2. In the General Report Properties dialog box that appears, configure the SMTP Settings, and then click OK. Enabling and configuring a specific report: <ol style="list-style-type: none"> 1. In the Reports tree, select a specific report (e.g. Licence Report) and then click Configure. 2. In the Report Properties dialog box that appears, select the Enable this report check box. 3. Modify/configure the report's E-mail settings and SyncSchedule using the options available. 	 Configure



Options	Description	Toolbar Button
	4. Click OK .	

Access Users menu (User Access Management view)

When **Access Users** is selected in the User Access Management tree, the **Access Users** menu is available on the menu bar.

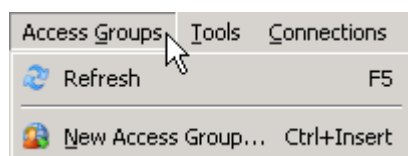


Access Users menu



Options	Description	Toolbar Button
Refresh	Click Refresh to refresh the list of Access Users displayed in the work area.	 Refresh
New Access User	Click New Access User to create a new Access User. For more information, see Access Users in Chapter 9, "User Access Management".	 New User

Access Groups menu (User Access Management view)

When **Access Groups** is selected in the User Access Management tree, the **Access Groups** menu is available on the menu bar.

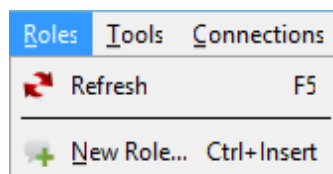


Access Groups menu



Options	Description	Toolbar Button
New Access Group	Click New Access Group to create a new Access Group. For more information, see <i>Access Groups</i> in Chapter 9, "User Access Management".	 New Group
Refresh	Click Refresh to refresh the list of Access Groups displayed in the work area.	 Refresh

Roles menu (User Access Management view)

When **Roles** is selected in the User Access Management tree, the **Roles** menu is available on the menu bar.



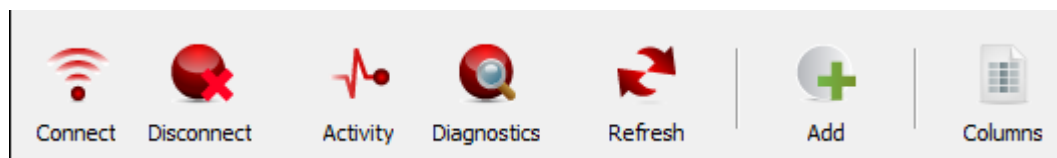
Roles menu

Options	Description	Toolbar Button
Refresh	Click Refresh to refresh the list of Roles displayed in the work area.	 Refresh
New Role	Click New Access Role to create a new Role. For more information, see <i>Roles</i> in Chapter 9, "User Access Management".	 New Role

Toolbar display settings

You can change the main toolbar display style to suit your viewing preference. Below are some examples.

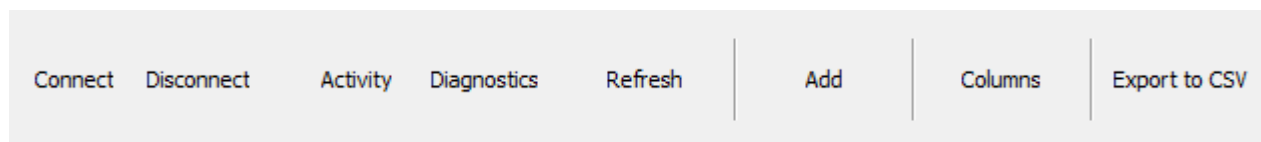
Icons & Text (default):



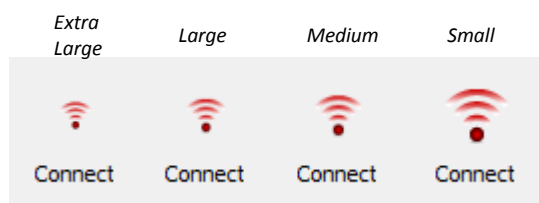
Icons only:



Text only:



Icon sizes:



To change the main toolbar display settings:

1. On the **Tools** menu, click **Options**.
2. Click the **Display** tab.
3. In the Main Toolbar area, select an option in the **Style** drop-down list.

The following options are available:

- Icons & Text
- Icons only
- Text only

4. Select an option in the **Icon size** drop-down.

The following options are available:

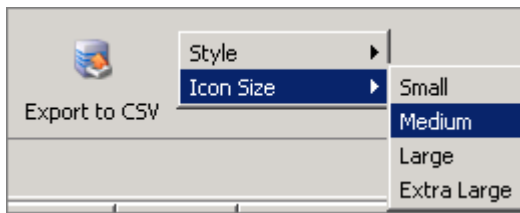
- Small

- Medium
- Large
- Extra Large

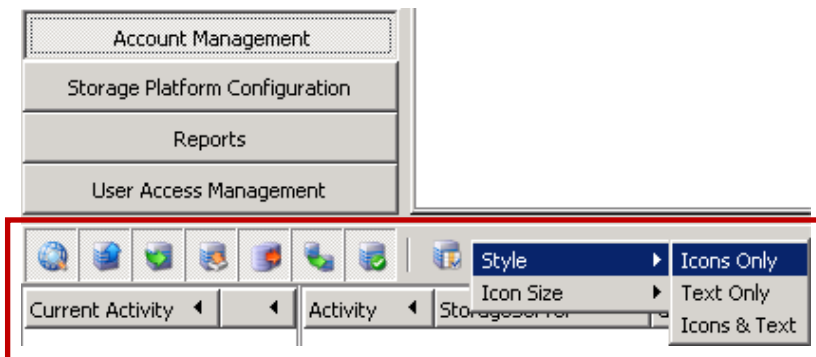
5. Click **OK** to close the dialog box. Your changes will be applied immediately.



Tip: Alternatively, right-click the grey area on the toolbar and use the **Style** and **Icon size** menus that appear to select the settings.



The same display settings are available for the Activity toolbar that displays below the view selector by default.



To change the Activity toolbar display settings:

1. On the **Tools** menu, click **Options**.
2. Click the **Fixed Views** tab.
3. In the Fixed-View Toolbars area, select an option in the **Style** drop-down list.

The following options are available:

- Icons & Text
- Icons only
- Text only

4. Select an option in the **Icon size** drop-down.

The following options are available:

- Small
- Medium
- Large

- Extra Large

5. Click **OK** to close the dialog box.



Tip: Alternatively, right-click the grey area on the toolbar and use the **Style** and **Icon size** menus that appear to select the settings.

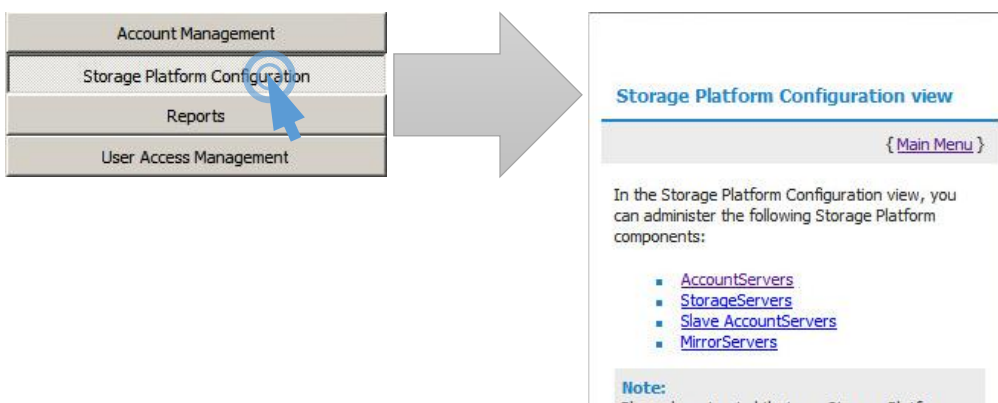
Work area

This area displays information relevant to the selected view. For more information on each view, see “View selector” earlier in this chapter.

Account Management													
Accounts Licensing													
Account Name	Size	Data Protected (last backup)	Data Protected (all backups)	Duplicates (% saving)	On Disk	Account Usage	Backups & Roll-ups	Last Backup Date	Create Date	Active	Overlimit	StorageServer	Client Version
ACCOUNT01	1.00 GB					0.00 %	0		2009/12/10 02:09:30 PM	TRUE		192.168.20.120:8443	6.0.0.637
Total: 1		1.00 GB				0.00 %	0						

Product Help

Access the SP Console Help by clicking **Product Help** on the **Help** menu.



This Help pane displays information relating to the view open in the Console.

Activity area

The Activity area displays information relating to all current connections and activities on the Storage Platform. Information displayed:

- **Backups** (displayed in **Blue**)
- **Restores** (displayed in **Fuchsia**)
- **Roll-ups** (displayed in **Teal**)
- **Mirrors** (displayed in **Green**)
- Account Moves (displayed in **Purple**)
- Integrity Checks (displayed in **Red**)

Activity	Server	Group	Acco
Mirror	QAHIVEM51:8443	Hive\Group2(admin@192.168.20.126)	FED
Mirror	QAHiveSS1:8443	Hive\Group2	FED
Restore	QAHiveSS1:8443	Hive\Group1	Fed

Cancel Task








Activity-related buttons are available on a small Activity toolbar:




Tip:

- You can click the **Show All** button if all activities are not displayed.
- Columns can be sorted by clicking on the column headers.
- You can filter activities to only display a particular Backup Group(s) - Use the **Filter by Group** button on the toolbar (see below).
- While a process is being performed, a progress bar displays. You can right-click the progress bar and then click **Cancel** to stop the process.

You can view/hide information by selecting or deselecting the following Activity buttons:

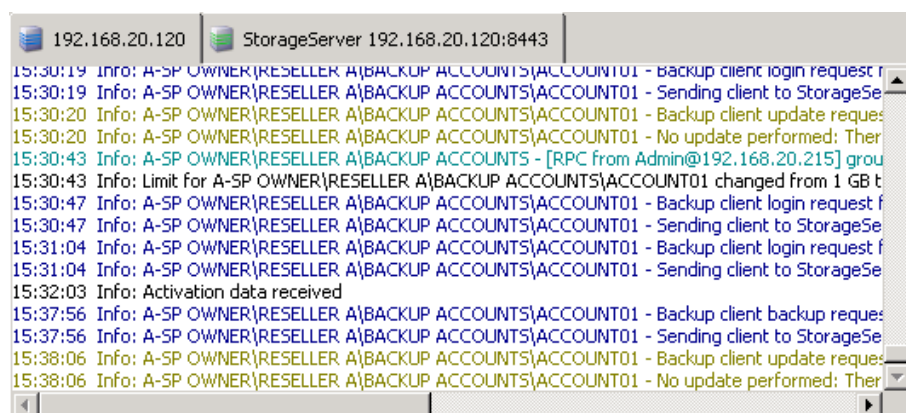
Activity Area Toolbar Button	Description
	Show all activities.
	Show Backup activity.
	Show Restore activity.
	Show Roll-up activity.
	Show Mirroring activity.
	Show Account move activity.
	Show Integrity Check activity.

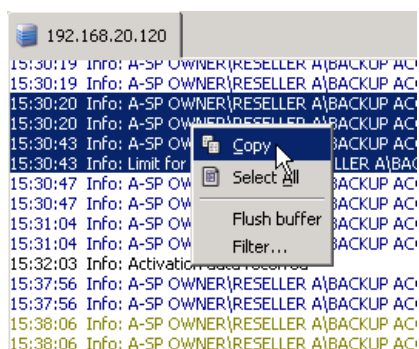
You can also modify the Activity display.

Activity Area Toolbar Button	Description
	Click this button to access the Customise columns dialog box, which enables you to display/hide columns in the Activity area.

Diagnostics area

The Diagnostics area displays the raw output supplied by the AccountServer and/or StorageServer(s) in a separate tab for each server.





If you right-click within the **Diagnostics** output window, you can **Copy** the information (which is useful if you wish to email the output to a support engineer), use **Flush buffer** to clear the current output window or use the **Filter** option to filter or highlight a particular word or phrase.

Status bar

The Status bar displays the IP address of the Storage Platform you are currently connected to, along with the username used to connect to it.

Connected to: 192.168.20.120 (192.168.20.120) - Logged on as: Admin

6. Account Management

You can use the SP Console to manage Backup Accounts and their connections to the Storage Platform. You can also place the Accounts into Backup Groups and Collections and deploy Client installation files to enable the creation of new Accounts within those Groups and Collections. See below for more information.

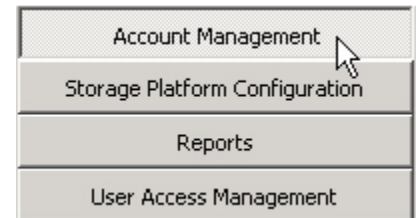
Account Management view

In the Account Management view, you can administer the following:

- Collections
- Backup Groups
- Backup Accounts
- Backup Client deployments
- Backup Clients (Remote Management)

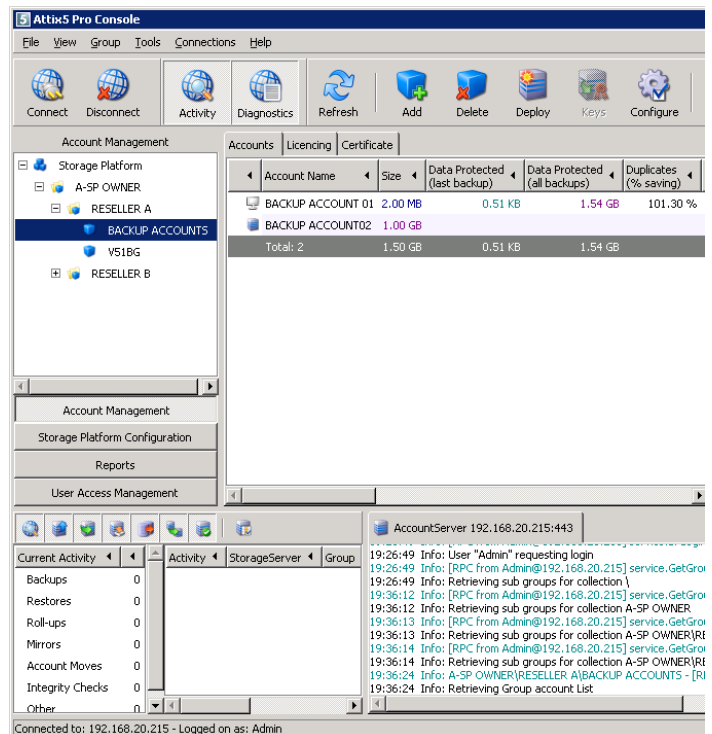
To access the Account Management view:

1. Open the SP Console and connect to the Storage Platform. [See Chapter 4, "Connection".]
2. In the view selector on the left of the SP Console, click the **Account Management** button.



A summary of all Collections and Backup Groups configured on the Storage Platform will be displayed by default. This provides you with an overview of the default settings configured in each Collection/Backup Group.

When viewing this Backup Group summary, you can adjust the way that the information displays by adding/removing columns and filtering Backup Groups according to the licences they possess.



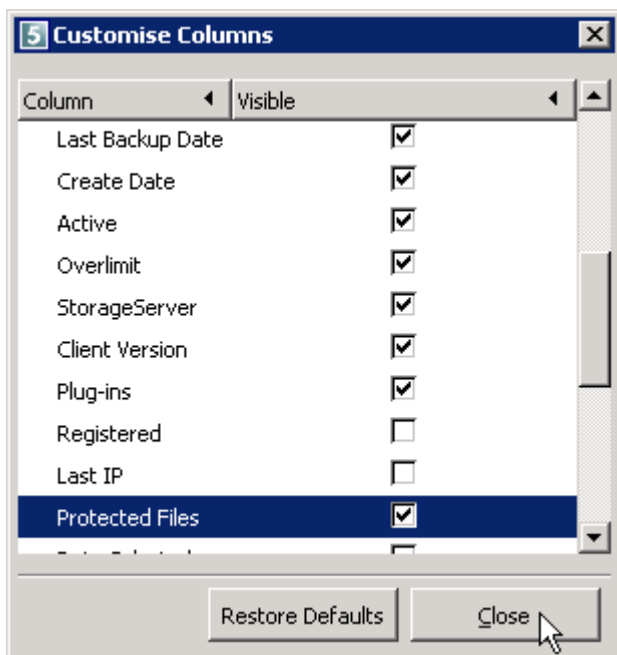
To add/remove columns:

1. On the **View** menu, click **Customise Columns**. Alternatively, click the **Customise Columns** button on the main toolbar.
2. In the **Customise Columns** dialog box that appears, specify which columns you wish to add/remove by selecting/clearing the check boxes next to the column names.
3. Click **Close**.



Note:

- You can click the **Restore Defaults** button to revert to the default column selections.
- The columns available depend on whether a **Collection** or **Backup Group** is selected.



When a Collection is selected, the following columns are available by default in the Groups tab:

- **Group Name** – The name of the Backup Group.
- **Group Limit** – The storage space allocated to the Backup Group.
- **Max Accounts** – The maximum number of Backup Accounts the Backup Group can hold. If this is zero, the number of Backup Accounts is unlimited.
- **Roll-ups** – The number of roll-ups that are retained for Accounts in the Backup Group.
- **Expiry Date** – The date on which the Backup Group expires. If this column is empty, the Backup Group does not have an expiry date.

- **Mirror Enabled** – Mirroring is either enabled or disabled.
- **Enabled** – The Backup Group is either enabled or disabled.
- **Type** – The Backup Group is either a registered or evaluation group.
- **Updates** – Automatic updates are either on, off or on the SP default setting.
- **Profiling** – Profiling is either enabled or disabled.
- **HSM Enabled** – Hierarchical Storage Management is either enabled or disabled.
- **Default Account Size** – The default storage space allocated to Backup Accounts in the Backup Group.
- **Overspill (%)** – The percentage of the Account limit that Accounts in the Backup Group may exceed during the backup process.

When a Backup Group is selected, the following columns are available by default in the Accounts tab:

- **Account Name** – The name of the Backup Account.
- **Size** – The storage space allocated to the Backup Account.
- **Data Protected (last backup)** – The amount of uncompressed data protected by the last backup.
- **Data Protected (all backups)** – The amount of data protected by all backups. The sum of the uncompressed size of all the files (excluding unchanged files) in all backups. If there are multiple copies of the same file, they will all contribute to the final size. If a file is patched, the new uncompressed file size (resulting size) is used.
- **Saving** – Saving due to compression, patching, and Account-level de-duplication. It is the difference between Data Protected (all backups) and On Disk.
- **Saving %** – Saving as a percentage of Data Protected (all backups), i.e. $\text{Saving} / \text{Data Protected (all backups)} * 100$.
- **On Disk** – The amount of disk space used to store all backups on the StorageServer (excluding index files). This is generally less than the Data Protected columns due to compression, patching and SIS.
- **Account Usage** – The percentage of the Backup Account being used.
- **Backups & Roll-ups** – The number of backups and roll-ups that are available to restore from.
- **Last Backup** – The date and time at which the last backup started.
- **Create Date** – The date on which the Account was created.
- **Active** – The Backup Account is either active or disabled.
- **Overlimit** – The amount of data that the Backup Client attempted to back up. If the amount of data is within the allowed overspill, the backup will be successful; otherwise it will fail.
- **StorageServer** – The IP address of the StorageServer to which the Account backs up.

- **Client Version** – The version of the Backup Client associated with the Account.
- **Plug-ins** – Lists the plug-ins installed on the Backup Client. Depending on the settings, the plug-ins will either appear as a list with each plug-in on a separate line or in a drop-down list on a single line. If the column contains "...", select the Account and then click on the Plug-ins column to view the drop-down list.
- **GUID** – The Globally Unique Identifier of the Account.
- **StorageServer IP Override** – If true, the Account is temporarily being directed to a different StorageServer (the IP of which is shown in the StorageServer column) from its usual one.
- **Restorable Data** – Restoring a full, uncompressed copy of each backup and adding up the size of all the data restored will result in this figure.

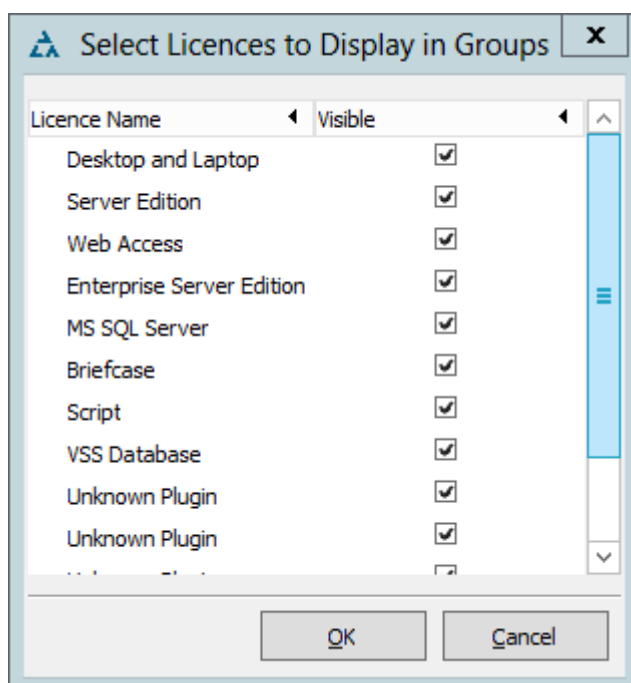
To filter Groups according to licences:

1. On the **View** menu, click **Filter Accounts**. Alternatively, click the **Filter** button on the main toolbar.










Note: This option is only available when viewing a Backup Group's **Accounts** tab. Click the Backup Group name in the Account Management tree and then ensure that the **Accounts** tab is selected in the work area (right-hand pane).

2. In the **Select Licences to Display in Groups** dialog box that appears, all licences are selected by default. Clear all check boxes except those belonging to the licences you wish to filter by.
3. Click **OK**.



Account Management view icon legend

Icon	Location	Description
	Account Management tree	Storage Platform Collection (top level)
	Account Management tree	Collection
	Account Management tree	Group
	Account Management tree	Disabled Group
	Accounts tab	Server Edition Backup Client Account
	Accounts tab	Desktop & Laptop Edition Backup Client Account
	Accounts tab	Enterprise Server Edition Backup Client Account

For more information on configuring Backup Groups, see “Backup Groups” later in this chapter.

Collections

In the Account Management tree, you can create a Collection and then move or add Backup Groups to it. This is especially useful to administrators managing multiple Backup Groups that can be categorised.



Example: A Collection can be used to manage Groups representing different categories of Backup Accounts (e.g. departments, teams, resellers, Backup Account types):

Account Management		Accounts Licencing		
		Account Name	Size	Data Protected (last backup)
[-] Storage Platform				
[-] A-SP OWNER				
[+] RESELLER A				
[-] RESELLER B				
LAPTOPS		DAVEB	1.00 GB	1.11 MB
SERVERS		JENNYD	1.00 GB	0.50 KB
		JOHNB	1.00 GB	908.70 MB
		Total: 3	3.00 GB	909.81 MB

You can perform the following actions on Collections using the SP Console:

- Add/Delete Collections
- Configure Collection settings
- **Add/Delete/Configure Groups** (See *Adding and deleting Groups* later in this chapter.)

Adding and deleting Collections

To add a Collection:

1. In the Account Management view, expand the Account Management tree and select the node you wish to add the Collection to.
2. On the **Storage Platform** or **Collection** menu, click **Add Group or Collection**. Alternatively, click the **Add** button on the main toolbar or right-click the node and then click **Add Group or Collection** in the shortcut menu that appears.



Note: You can add a Collection to the **Storage Platform** Collection or to any other Collection but you cannot add a Collection to a Group.

3. In the **Add New Group or Collection** dialog box that appears, select **Collection**.
4. In the **Name** box, type a display name for the Collection.



Note: The following characters are not supported in Collection names: "*", "/", "\", "|", "<", ">", "?", ":", " ", "&", "#", "@", and "!".

5. In the **Storage Limit** box, enter storage limit for the Collection.



Note: Set the amount to "0" to use the maximum storage available in the parent Collection. However, note that the sum of the Storage Limits of Collections within a Collection, cannot exceed the Storage Limit set on the parent Collection.

6. Click **OK**.



Note: After creating a Collection, you need to make licences available to any Backup Groups you may wish to add to it. To do this, you'll need to assign licences to the Collection. The Console will prompt you to do this after creating the Collection. For instructions, see "Account Management Licencing" later in this chapter.

To delete a Collection:

1. In the Account Management tree, click the Collection name.
2. On the **Collection** menu, click **Delete Collection**. Alternatively, click the **Delete** button on the main toolbar or right-click the Collection name and then click **Delete Collection** on the shortcut menu that appears.
3. In the confirmation dialog box that appears, click **Yes**.

Configuring Collection settings

Settings configured for a Collection will determine the default settings assigned to all new Backup Groups added to that Collection.

To configure Collection settings:

1. In the **Account Management** view, expand the tree and then select the Collection name.
2. On the **Collection** menu, click **Configure**. Alternatively, click the **Configure** button on the toolbar or right-click the Collection name and then click **Configure** on the shortcut menu that appears.
3. In the **Configure Collection** dialog box that appears, configure the options as required, and then click **OK**.

Special considerations

All configuration options available for Backup Groups are available for Collections. (For more information on Backup Group configuration options, see “Configuring Group settings” later in this chapter.) However, certain values set on the Collection, will affect its Groups regardless:

Group Storage Limit: While most Collection settings affect only the default values of new Backup Groups, the Group Storage Limit (in the Admin tab) applies to the sum of all Backup Group limits within the Collection. Ensure that the Collection’s limit accommodates the limits applied to all the Backup Groups it will contain.

Allowed Storage Overspill: The percentage overspill on an underlying Group cannot be higher than the Allowed Storage Overspill percentage (set in the Admin tab) on the Collection.

Backup Groups

Every Backup Account needs to belong to a Backup Group in the SP Console. You can add, delete, configure or move Backup Groups as required. The SP Console enables you to perform the following Backup Group actions:

- Add/Delete Groups
- Manage banner adverts
- Configure Group settings
- Move Groups
- Create Backup Client deployments for Groups
- Work with Group certificates
- Add/Remove Group licences
- Access often-used reports

Adding and deleting Groups



Note:

- You can add a Backup Group to the **Storage Platform** Collection (the root Collection) or to any other Collection but you cannot add a Backup Group to another Group.
- Backup Groups added directly to the **Storage Platform** Collection can be configured individually.
- Backup Groups added to any other Collection will inherit the licencing, limits and user rights of that Collection.

To add a Group:

1. In the Account Management view, expand the Account Management tree and select a Collection name.
2. On the **Collection** menu, click **Add Group or Collection**. Alternatively, click the **Add** button on the main toolbar or right-click the Collection name and then click **Add Group or Collection** on the shortcut menu.
3. In the **Add New Group or Collection** dialog box that appears, select **Backup Group**.
4. Type a display name for the Group in the **Name** box.



Note: The following characters are not supported in Backup Group names: "*", "/", "\", "|", "<", ">", "?", ":", " ", "&", "#", "@ and !".

5. In the **Storage Limit** box, enter a storage limit for the Group.



Note: Set the amount to "0" to use the maximum storage available in the parent Collection. However, note that the sum of the Storage Limits of Groups in a Collection, cannot exceed the Storage Limit set on the Collection.

6. Type a create key (50 characters or less) in the **Create Key** box. For more information on Create Keys, see *Account Create Key* later in this chapter in the *Configuring Group Settings* section.
7. Specify the default maximum Account size limit in the **Default Account Size** box.
8. Click **OK**.

To delete a Group:

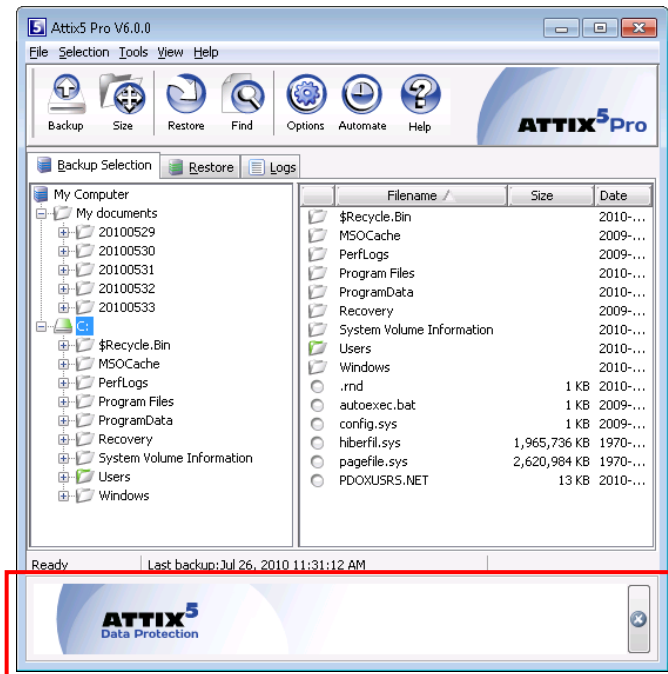
1. In the Account Management view, expand the Account Management tree and select the Group name.
2. On the **Group** menu, click **Delete Group**. Alternatively, click the **Delete** button on the main toolbar or right-click the Backup Group name and then click **Delete Group** on the shortcut menu.
3. In the confirmation dialog box that appears, click **Yes**.



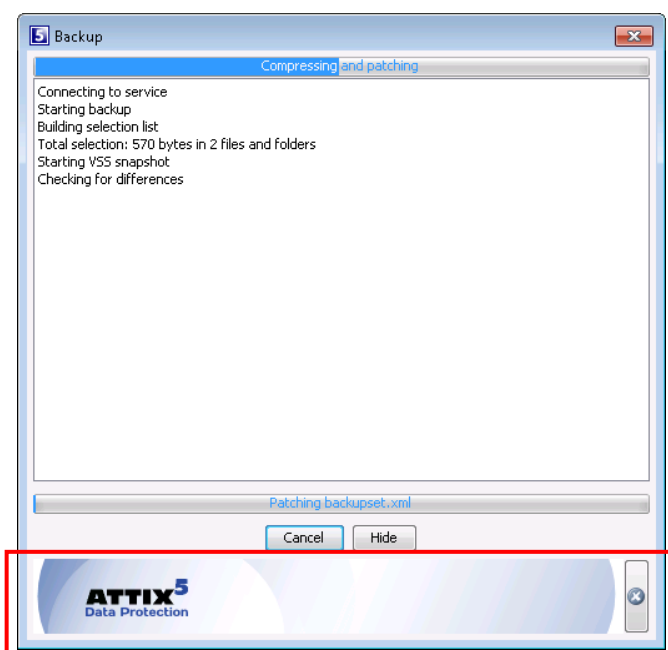
Note: A Group should contain no Backup Accounts before being deleted.

Managing the banner advert

By default, a banner advertisement displays at the bottom of each Desktop & Laptop Client (DL) application when it is first opened. Depending on whether the Client's Backup Account is a Registered or Evaluation Account, the user may or may not be able to close the advert. For more information, see the *Expiry tab* section of *Backup Groups* in Chapter 6, "Account Management".



The same banner advertisement displays in the **Backup** dialog box after every backup by default for SE and DL Backup Clients.





Note: This feature may be disabled for Registered Accounts belonging to Registered Backup Groups.

To enable the banner advert:

1. In Account Management view, expand the Account Management tree and then select the relevant Backup Group.
2. On the **Group** menu, click **Configure**. Alternatively, click the **Configure** button on the toolbar or right-click the Backup Group name, and then select **Configure** on the shortcut menu that appears.
3. In the **Configure Group** dialog box that appears, click the **Expiry** tab.
4. Select the **Enable Client Banner** check box.
5. If you wish to use the Storage Platform's default banner, ensure that "Default" is specified in the **Client Banner URL** box, click the **Test URL** button to verify that the image displays correctly, and then click **OK**.



Note:

- Please note that your new banner image needs to be exactly 468px wide and 60px high. Deviation from these dimensions will result in the image being distorted.
- Images may be in JPG, PNG or GIF format.



Tip: You can change the banner image used by typing a new URL in the **Client Banner URL** box, and then clicking **OK**. Ensure that the new URL points to an HTML file with the banner image embedded in it. For a detailed example, see Defaults tab under Configuring an AccountServer in Chapter 7, "Storage Platform Configuration".

To disable the banner advert:

In Account Management view, expand the Account Management tree and then select the relevant Backup Group.



Note:

- You can only disable the banner advert on Registered Groups.
- When disabling the banner for a Registered Group, it will only affect Registered Backup Accounts. Any Evaluation Accounts in the Group will display either the last banner advert it obtained from the Storage Platform at the end of its last backup or, if no backup has been performed yet, it will use the default banner specified for the Storage Platform. For more information on default banner settings, see Defaults tab in Chapter 7, "Storage Platform Configuration".
- It is recommended that you move all Registered Backup Accounts to Registered Backup Groups and Evaluation Backup Accounts to Evaluation Backup Groups.

To change the default banner for all Accounts on the Storage Platform:

1. Upload your new banner image to a web server, create an HTML file with the banner image embedded in it and make a note of its URL. For a detailed example, see *Defaults tab* under *Configuring an AccountServer* in Chapter 7, “Storage Platform Configuration”.



Note:

- Please note that your new banner image needs to be exactly 468px wide and 60px high. Deviation from these dimensions will result in the image being distorted.
- Images may be in JPG, PNG or GIF format.

2. In the Storage Platform Configuration view, select the AccountServer node.
3. On the **AccountServer** menu, click **Configure**. Alternatively, click the **Configure** button on the toolbar or right-click the AccountServer node, and then click **Configure** on the shortcut menu that appears.
4. In the **Configure AccountServer** dialog box that appears, ensure that the **Defaults** tab is selected.
5. In the **Default client banner URL** box, replace the default URL with your new banner’s URL.
6. Click the **Test URL** button to test the path.
7. Click **OK**.



Note: The URL will now be the default URL for all Backup Accounts on the Storage Platform belonging to Groups that are configured to use the Storage Platform’s default Client Banner URL (see *Expiry tab* under *Configure Group* dialog box in Chapter 6, “Account Management”). You can specify that Backup Accounts belonging to a particular Backup Group use a different banner image by following the instructions below.

To change the banner for all Backup Accounts belonging to a particular Backup Group:

1. Upload your new banner image to a web server, create an HTML file with the banner image embedded in it and make a note of its URL. For a detailed example, see *Defaults tab* under *Configuring an AccountServer* in Chapter 7, “Storage Platform Configuration”.



Note:

- Please note that your new banner image needs to be exactly 468px wide and 60px high. Deviation from these dimensions will result in the image being distorted.
- Images may be in JPG, PNG or GIF format.

2. In Account Management view, expand the Account Management tree and then select the relevant Backup Group.
3. On the **Group** menu, click **Configure**. Alternatively, click the **Configure** button on the toolbar or right-click the Backup Group name, and then select **Configure** on the shortcut menu that appears.
4. In the **Configure Group** dialog box that appears, click the **Expiry** tab.

5. If the Group is registered, ensure that the **Enable Client Banner** check box is selected, type your new URL in the **Client Banner URL** box, and then click the **Test URL** button to test the path.



Note:

- *The defined URL will replace the default banner URL permanently on the Backup Client. Please note that this applies to both Registered and Evaluation Groups.*
- *If Enable Client Banner is selected but you leave the Client Banner URL box empty, the last banner URL specified for the Group will display in the Client.*

6. If the Group is an Evaluation Group, **This is an evaluation Group** should be selected. Beneath the Evaluation Group settings, in the **Client Banner URL** box, type the new banner URL, and then click the **Test URL** button to test the new path.



Note:

- *When configuring banner settings for an Evaluation Group, the settings will only apply to Evaluation Backup Accounts. Any Registered Accounts in the Group will be unaffected.*
- *The defined URL will replace the default banner URL permanently on the Backup Client. Please note that this applies to both Registered and Evaluation Groups.*

7. A browser window should open, displaying the new banner. If it displays correctly, click **OK**.

For more information on configuring the **Expiry** tab, see *Configure Group dialog box* later in this chapter.

To configure all Backup Accounts belonging to a particular Backup Group to display the default banner:

1. In Account Management view, expand the Account Management tree and then select the relevant Backup Group.
2. On the **Group** menu, click **Configure**. Alternatively, click the **Configure** button on the toolbar or right-click the Backup Group name, and then select **Configure** on the shortcut menu that appears.
3. In the **Configure Group** dialog box that appears, click the **Expiry** tab.
4. Delete the URL in the relevant **Client Banner URL** box, and then type "Default".
5. Click the **Test URL** button to test the URL.
6. If the banner displays in a browser window as expected, click **OK**.



Note: *The default banner is specified at the AccountServer level. See "To change the default banner for all Accounts on the Storage Platform" earlier in this chapter.*

To revert to the original banner supplied by your software provider:

1. If the original banner image was replaced at any point and is no longer available on the Backup Client machines or the AccountServer, you need to obtain a copy of the image from your service provider, upload it to your web server, create an HTML file with the banner image embedded in it and make a note of its URL. For a detailed example, see *Defaults tab* under *Configuring an AccountServer* in Chapter 7, "Storage Platform Configuration".
2. Change the relevant Client Banner URL to point to the updated HTML file.



Note:

- To replace the Default client banner URL in the AccountServer configuration settings, see "To change the default banner for all Accounts on the Storage Platform" earlier in this chapter. This will affect all Backup Accounts using the default banner configuration.
- To replace a particular Backup Group's Client Banner URL, see "To change the banner for all Backup Accounts belonging to a particular Backup Group" earlier in this chapter. Only Backup Accounts belonging to that Group will be affected.

Each Backup Client will download the original banner at the end of its next backup.

Configuring Group settings

You can use the **Configure Group** dialog box to perform most Backup Group configuration tasks.

To access the **Configure Group** dialog box:

1. In the Account Management view, expand the Account Management tree and select the Group name.
2. On the **Group** menu, click **Configure**. Alternatively, click the **Configure** button on the main toolbar or right-click the Group name and then click **Configure** on the shortcut menu that appears.

Below are descriptions of the tabs and options available in the **Configure Group** dialog box.

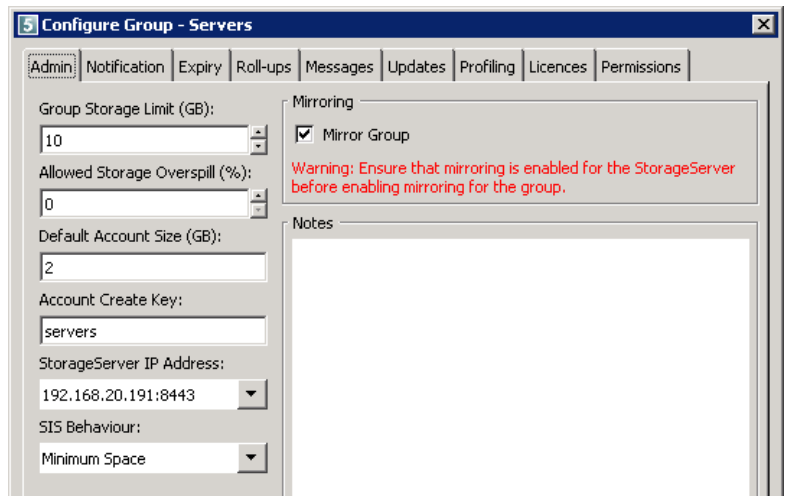
Admin tab

Group Storage Limit (GB)

The Group Storage Limit is the total amount in GB that can be allocated to Backup Accounts in this Group.



Note: A single Group's Storage Limit cannot be more than the Collection's Storage Limit.





Warning: You will not be able to add users when this limit has been reached.

Allowed Storage Overspill (%)

This setting enables you to specify a percentage of the Backup Account limit that Accounts in the Group may exceed during the backup process. This ensures that the backup is completed successfully, even if the backup selection is too large.



Note: The value for a Group cannot be more than 50% of the value set for the Collection.

Backup Accounts exceeding the Account limit will be flagged and you can enable **Over Limit Notification** to include a message in the Backup log. You can also specify that Over Limit Notifications be emailed to the Backup Administrator. For more information, see *Notification tab* later in this chapter.

Default Account Size (GB)

Use this box to specify the default Backup Account size limit for all new Backup Accounts.

Account Create Key

This key is needed to create new Backup Accounts for this Backup Group. It is used during the Backup Client software Deployment process and prevents unauthorised Backup Accounts being created.



Note:

- A Create Key can be up to 50 characters long and consist of letters, numbers and characters.
- Create Keys are not case-sensitive.

Location for new accounts

If multiple StorageServers are available, you can select a Storageserver from the list to ensure that all newly created Backup Accounts in the Group will reside on the same StorageServer.



Note: Changes to this setting are recorded in the "AuditTrailGroups" report.

Location for new accounts:

StorageServer: 192.168.20.194:8443	▼
Pool: Storage Pool	
StorageServer: 192.168.20.194:8443	▼
Pool: Storage Pool 2	
StorageServer: SDP-WIN2012-SS1:8443	
Pool: Storage Pool 3	

< ||| >

However, automatic StorageServer allocation is enabled by default when the Storage Pool is selected. This means that when a new Backup Account is created, it will be assigned to the StorageServer with the most free disk space.



Note: New Backup Accounts will not be allocated to locked StorageServers if the automatic option is selected.

Location for new accounts:

Pool: Storage Pool	▼
Pool: Storage Pool	▼
StorageServer: 192.168.20.194:8443	▼
Pool: Storage Pool 2	
StorageServer: SDP-WIN2012-SS1:8443	
Pool: Storage Pool 3	

SIS Behaviour



Note: Single Instance Storage (SIS) a.k.a. de-duplication results in stored files not being duplicated i.e. the same file is never backed up twice but reused each time it is required.

- **Disabled** – Global SIS is completely disabled for all Backup Accounts in the Group. You will not benefit from files already on the StorageServer and none of the uploaded files will be placed in Global Storage. This has the least impact on the disk during backups and is also the fastest.
- **Minimum Space (Default)** – During the backup, all received files are checked against Global Storage to eliminate duplicates prior to transfer. This requires that Global Storage is accessed during the backup process which will slow the *validating* and *optimising* part of the backup down but will ensure the smallest transfer.
- **Max Speed** – When selected, the backup will always send all intended files to the Storage Platform, whether they exist in Global Storage or not. After the backup, any duplicates will, however, be filtered out in a separate process (not holding up backups), fully utilizing Global Storage. This setting should be used in a high bandwidth environment (e.g. LAN) where transfer savings are not important as more data may be transmitted than is absolutely necessary.



Note:

- SIS behaviour settings only refer to **Global SIS**; Account-level SIS is always enabled (equivalent to **Minimum Space** setting).
- SIS is also applied to HSM folders on the same hard drive volume as the StorageServer's Data folder configured during Storage Platform installation. (not applicable to ESE Backup Accounts)



Warning: Running the Storage Platform on ReFS will prevent SIS from functioning and also cause HSM to function only for ESE Backup Accounts.

Mirroring

Mirroring is enabled by default. If you wish to exclude this Group from being mirrored, clear the **Mirror Group** check box.



Warning: Ensure that mirroring is enabled for the StorageServer before you enable mirroring for the Backup Group. For more information, see *Managing Mirroring in Chapter 7, “Storage Platform Configuration”*.

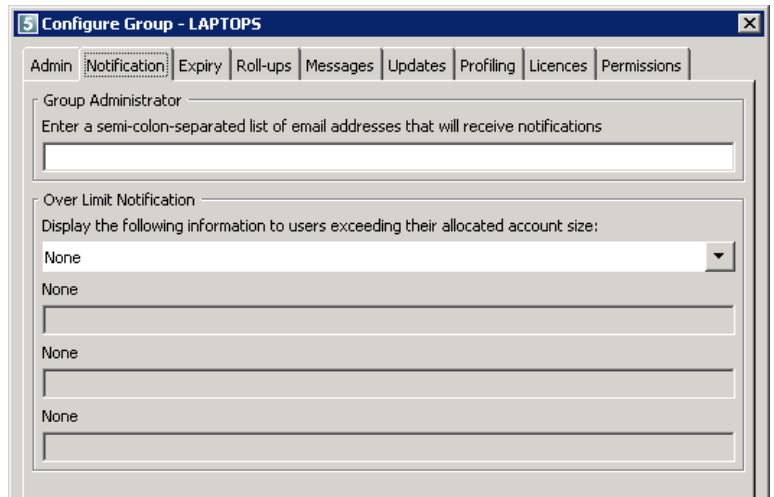
Notes

You can use this area to add the contact details of everyone involved in managing this Backup Group. For example, the Account Manager, default technical contact, etc.

Notification tab

Group Administrator

The list of users you specify in this area will receive an email notification whenever information related to this Backup Group is available. For example, when a Backup Account is utilising the Allowed Storage Overspill functionality, all users listed in the **Enter a semi-colon...** box will receive an Over Limit email. This will help ensure that the administrator(s) either upgrade the Account limit, or reduce the size of the backup selection.



Over Limit Notification

When a Backup Account exceeds its Account size limit, a message is displayed in the Backup Client to notify the user. In addition to the notification, the message can be set to display one of the following for Backup Account upgrade enquiries:

- **None** – No additional information is displayed.
- **Telephone** – A name and telephone number are displayed.
- **Email** – A name and email address are displayed.
- **Telephone and Email** – A name, telephone number and email address are displayed.
- **Website** – A URL is displayed.

Supply the relevant information for the chosen option, if applicable.

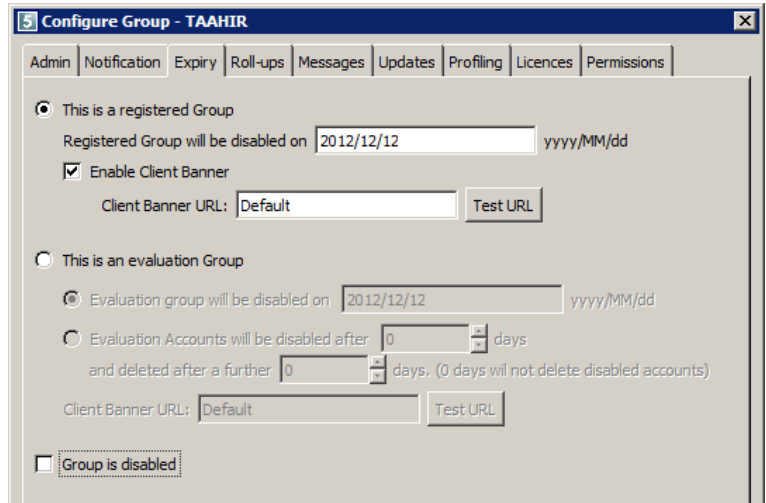
Expiry tab

Use this tab to specify whether the Backup Group is registered or being used for evaluation purposes. You can also specify when this Group must be disabled, after which Accounts belonging to it will not be able to connect to the Storage Platform.

“This is a registered group”

Select **This is a registered Group** once users have obtained a Group licence. Should the Group’s registration be for a limited time period, you can specify the date on which the Group will be disabled in this area.

You can also enable or disable the display of a Client banner at the bottom of Clients belonging to Registered Groups. Clear the **Enable Client Banner** check box to disable the banner display.




Note: Instead of disabling the entire Group on a certain date, individual evaluation accounts can automatically be disabled and deleted after a specified number of days.

“This is an evaluation group”

Select **This is an evaluation Group** to allow users to evaluate the software for a limited period. Users backing up to an evaluation group or with evaluation accounts will see a countdown to the expiry date in their backup summary screen, displayed after each successful backup (e.g. "Your evaluation account will expire in 6 days").



Note: The Client banner image in the defined URL will replace the default banner image permanently on the Backup Client. Please note that this applies to both registered and Evaluation Groups.

Users in an evaluation group will always see a Client banner displayed with each backup, as specified in the **Client Banner URL** box. "Default" displays the default banner as configured on the AccountServer’s **Defaults** tab. (See *Defaults tab* in Chapter 7, “Storage Platform Configuration”.) This banner can contain product features or information on how to upgrade an Account.

The banner URL should point to an HTML file with the following format:

```
<HTML>
<CENTER>
<A HREF="http://Link here"><IMG SRC="Image here" BORDER=0 WIDTH=468 HEIGHT=60></A>
</CENTER>
</HTML>
```

You can also disable a particular Backup Group manually by selecting the **Group is disabled** check box.



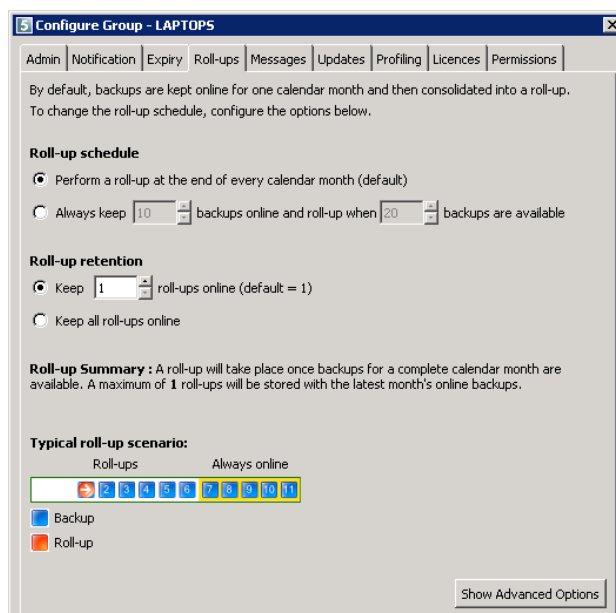
Warning: Backup Accounts belonging to a disabled Backup Group will not be deleted but users will not be able to connect to the Storage Platform.

Roll-ups tab

By default, backups from the current calendar month to those performed at the beginning of the last calendar month are always kept online. Backups older than that are rolled up at month-end and one roll-up is retained online.

When a roll-up occurs at the end of a month, a full backup copy of the last successful backup in that month is created by working through all the backups and patches for that month. This enables you to restore files from the current month's backups, the previous month's backups and from the online roll-up of the month prior to that.

This means that if a file was backed up on the 3rd day of the first month and then deleted on the 4th day of that same month, the file will not be selected for back up on the last day of the first month and will therefore not be included in the first month's roll-up.



Example: If you begin your backups during January, by the end of February, you can recover from any specific backup during January or February. When you do your first backup in March, all backups in January are consolidated into a roll-up. In March, you can access any backup made during March or February as well as any file/folder within the roll-up for January. With the default setting to keep only 1 roll-up, when you do your first backup in April, the backups for February are consolidated into a roll-up and the roll-up for January is deleted.



Note: Roll-ups will only be done for Backup Accounts that have backed up within the last month. In cases where no backups have been performed for over a month, roll-ups will resume after the first successful backup.



Warning: If you have Multiple Backup Sets configured, please note that each backup performed by each set will affect the roll-up schedule.

Roll-up schedule

You can change the roll-up schedule in this area. **Perform a roll-up at the end of every calendar month** is selected by default but you can specify a different schedule to suit your needs.

To change the roll-up schedule:

1. Select **Always keep...**
2. Type the number of backups to keep online in the **Always keep** box.
3. Type the number of backups that should first be available before a roll-up is initiated in the **roll-up when** box.
4. Ensure that the roll-up retention value is set correctly (see below).
5. Click **OK**.



Warning: If you set the **Always keep x backups online...** value to 0, after a roll-up occurs, no online backups will be left on the SP. Therefore, when the first backup after a roll-up occurs, there will not be an index file to patch against and a warning indicating this will be displayed in the logs. A full index will then be requested.

Roll-up retention

Use this area to specify the number of roll-ups to keep online.



Example: With the default setting to keep only 1 roll-up, when you do your first backup for the month, the backups for the previous month are consolidated into a roll-up and the roll-up for the month prior to that is deleted.

Additional information

Depending on whether data has changed within a file or whether the file has grown, roll-ups are affected differently.

Example: Data growth of 2TB monthly

Roll-up	Selected data (restorable)	Selected data (compressed)	Changes: Additional data from backups	Additional data (compressed)	Disk usage of roll-up
1	10 TB	5 TB	0 TB	0 TB	5 TB
2	12 TB	6 TB	2 TB	1 TB	1 TB
3	14 TB	7 TB	2 TB	1 TB	1 TB
4	16 TB	8 TB	2 TB	1 TB	1 TB
5	18 TB	9 TB	2 TB	1 TB	1 TB
6	20 TB	10 TB	2 TB	1 TB	1 TB
Totals	90 TB	45 TB	10 TB	5 TB	10 TB

Example: Data changes of 2TB monthly (no growth)

Roll-up	Selected data (restorable)	Selected data (compressed)	Changes: Modified data from backups	Additional data (Compressed)	Disk usage of roll-up
1	10 TB	5 TB	0 TB	0 TB	5 TB
2	10 TB	5 TB	2 TB	1 TB	1 TB
3	10 TB	5 TB	2 TB	1 TB	1 TB
4	10 TB	5 TB	2 TB	1 TB	1 TB
5	10 TB	5 TB	2 TB	1 TB	1 TB
6	10 TB	5 TB	2 TB	1 TB	1 TB
Totals	60 TB		10 TB	5 TB	10 TB

To specify the number of roll-ups to keep online:

1. Ensure that **Keep x rollups online** is selected.
2. Type the number of roll-ups in the box provided.
3. Ensure that the roll-up schedule and retention values are correct by reviewing the **Roll-up Summary** that displays below the Roll-up retention area.
4. Click **OK**.



Warning:

- If you select **Keep all roll-ups online**, the Storage Platform will eventually run out of disk space.
- **NEVER** delete any files, including Roll-ups, from the Storage Platform's **StorageVolume** folders. The Storage Platform will automatically do maintenance on these folders when needed. Manually deleting files will lead to data loss.

Advanced Options

By clicking the **Show Advanced Options** button, you can access the Hierarchical Storage Management (HSM), Backup References and MirrorServer roll-up retention options.

HSM:

Selecting **Hierarchical Storage Management (HSM)** will enable HSM for the Group. With HSM

☒ Hierarchical Storage Management (HSM)
 ☐ Backup References

MirrorServer Roll-up retention (if mirroring is enabled)

☒ Keep 1 roll-ups on MirrorServer (same as above)

☐ Keep roll-ups on MirrorServer

☐ Keep all roll-ups on MirrorServer

enabled, all Backup Accounts belonging to the Group will automatically archive roll-ups that are older than the latest roll-up kept online to the directory specified on the StorageServer's HSM tab.



Note: To enable HSM at Group level, HSM must be enabled on the relevant StorageServer. For more information on enabling HSM on the StorageServer, see StorageServers in Chapter 7, "Storage Platform Configuration".

Backup References:

With **Backup References** enabled, you can view a list of backed up items that were archived from the Storage Platform to the specified HSM directory on the **Restore** tab. All archived folders are displayed with greyed-out folder icons and you can browse through the available backup dates.



Note: These files can, however, not be restored until the data is moved back to the applicable folder on the Storage Platform by one of the Backup Administrators.

MirrorServer Roll-up retention:

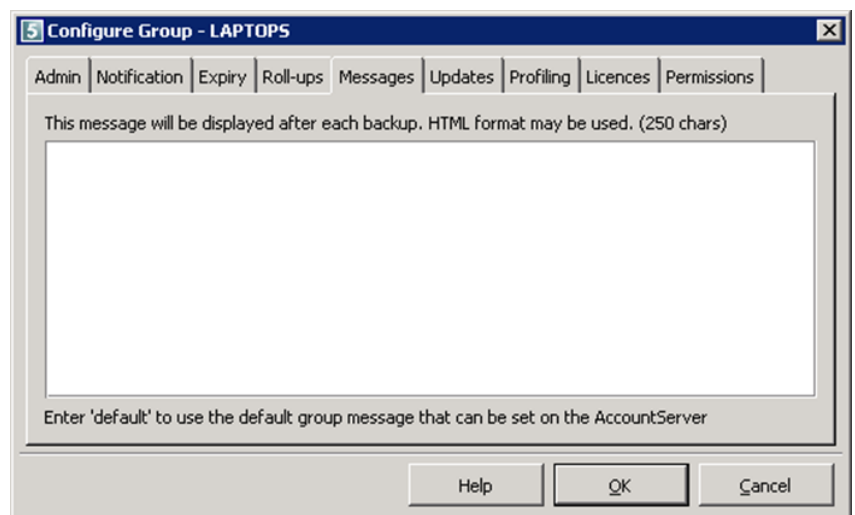
As with StorageServers, you can specify the number of roll-ups to keep in the MirrorServer.

Messages tab

This tab enables you to specify a message to be displayed in Desktop & Laptop Clients' summary screens after each backup.

To add a message for display after each backup:

1. Click in the **Messages** tab window.
2. Type the message you wish to display.
3. Click **OK**.



Note:

- You may use HTML, e.g. ` ... `.
- If you type default in the window, the message specified on the AccountServer's Defaults tab will be displayed. (See Defaults tab in Chapter 7, "Storage Platform Configuration".)



Warning: HTML may include an `<href>` tag using http but not https.

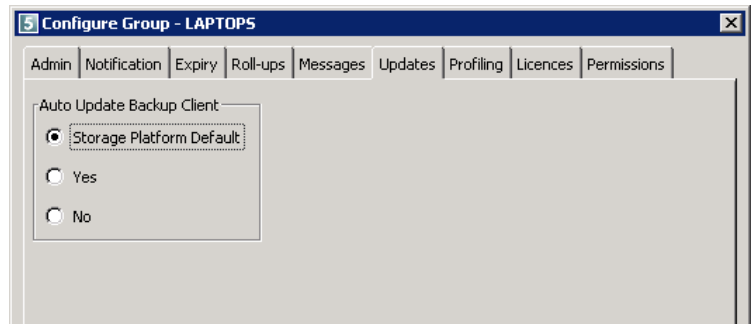
Updates tab

The Storage Platform can automatically update Clients that belong to the Backup Group during the backup process when updates are available.

To enable automatic updates:

Select **Yes**.

The default setting is **Storage Platform default**, which applies the settings configured on the AccountServer. For more information, see “Backup Client Updates” later in this chapter.



Profiling tab

Profiling enables you to propagate most of the client-side settings from the Storage Platform to the Backup Clients belonging to the Backup Group.

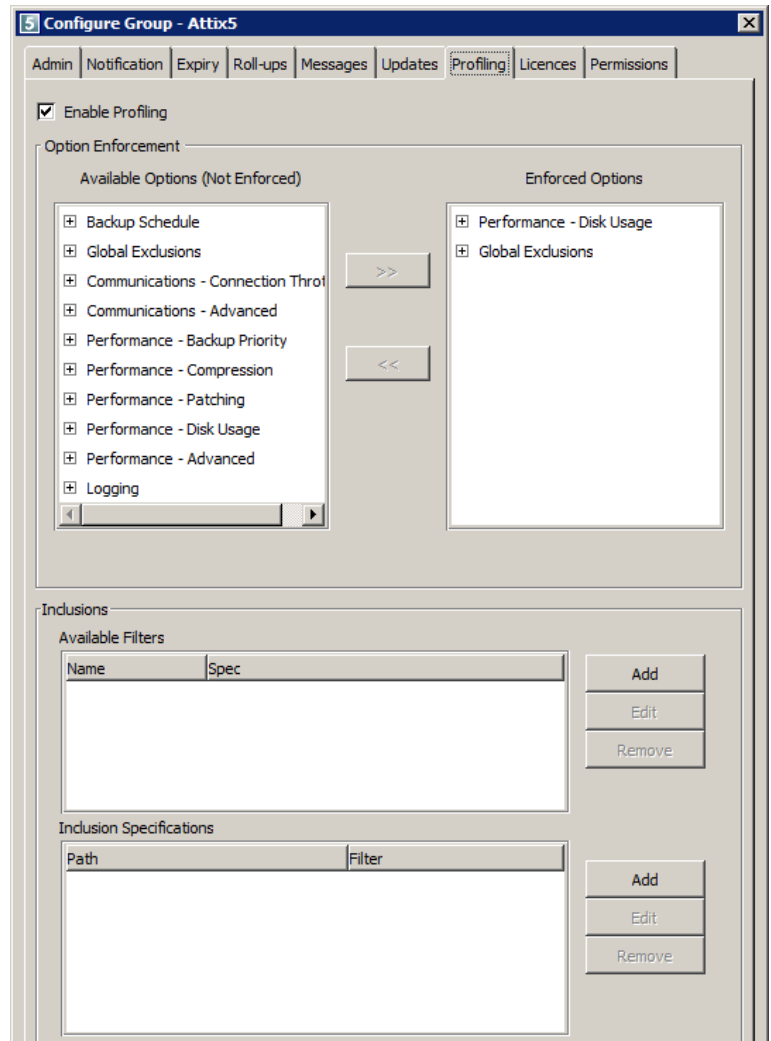


Note:

- These settings take priority over any settings specified in the Backup Clients.
- Plug-ins cannot be profiled.
- If a Backup Client does not support a certain feature, the enforced option will have no effect. (see the relevant Backup Client user manual for feature relevance)

To enable profiling at Group level:

1. Select the **Enable Profiling** check box.
2. Configure the profiling settings as desired. For more information on available settings, see “Option Enforcement” and “Inclusions” below.
3. Click **OK**.



Option Enforcement

In the **Option Enforcement** area, the available options are grouped in the same order as in the Backup Client's **Options and Settings** dialog box.

To enforce options on all Backup Clients within the Group:

1. Double-click the option in the **Available Options** box (or select it and then click the >> button). An **Option** dialog box will appear, prompting you for the required setting.
2. Select/specify the required setting(s).
3. Click **OK**.

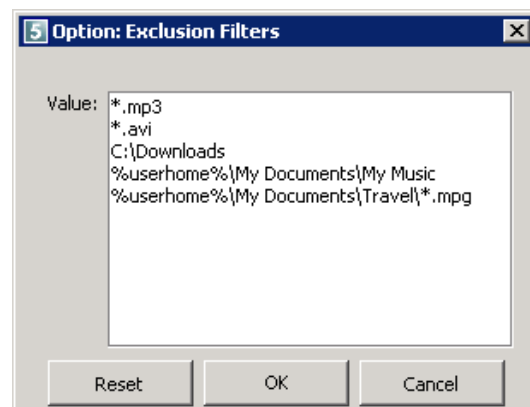
The option will now display in the **Enforced Options** list and overwrite the setting in the Backup Client. For specified settings that are more than 30 characters long, the Enforced Options list only displays the first 30 characters followed by "...".



Note: The **System Filters** option includes an **Exclusion Filters** option. This option is very powerful as you can use the %userhome% directive, filename wildcards, exact folder names and even a combination of all three to specify an exclusion. Each entry must be added on a new line, as displayed in the screenshot in the example below. For more information on individual options, please refer to the relevant Backup Client User Manual.



Example: In the screenshot example, the exclusions will ensure that:



No **mp3** or **avi** files anywhere on the system can be backed up.

The **C:\Downloads** folder and subfolders will be excluded.

The **C:\Documents and Settings\UserName\My Documents\My Music** folder and subfolders will be excluded (where **UserName** is the user's login name).

Any **mpg** file in **C:\Documents and Settings\UserName\My Documents\Travel** (but not subfolders) will be excluded.

To remove a particular option:

1. Select the option in the **Enforced Options** list.
2. Click the << button.

When a setting is removed, the Backup Client will revert back to the original setting applied before the option was enforced.

Inclusions

The **Inclusions** area enables you to configure the filter, file and folder inclusions that will be added to the backup selection lists of all Backup Clients belonging to the Backup Group.

To add inclusion specifications:

1. Create the list of filters in the **Available Filters**:
 - a. Click the **Add** button.
 - b. Type the new filter information in the boxes provided.
 - c. Click **OK**.



Example:

Filter name: MS Outlook email and **Filter extensions:** *.pst;*.dbx;*.wab.

2. Use the **Inclusion Specifications** box to specify the inclusions:
 - a. Click the **Add** button.
 - b. Select the type of data to include. You can include a filtered folder, a complete folder, or a single file.
 - c. In the **Path** box, type the location of the folder or file to be included.
 - d. Select a filter from the **Filter** drop-down. (The filters you added to the **Available Filters** box will display as the **Filter** options.)
 - e. Click **OK**.



Note: You can also use the %userhome% directive as discussed in the previous note.

When the Backup Client connects to the Storage Platform, it will receive the Profiling settings specified on this tab and these changes will be implemented. If any of these changes are modified by the user, they will revert back to the Profiling settings during each backup.



Note: To connect to the Storage Platform from the Backup Client and receive Profiling updates, click the **Retrieve Settings** button in the Backup Account area of the Backup Client's **Options and Settings** dialog box.

Licences tab

Use this tab to manage licences allocated to the Storage Platform.



Note: You can add/remove licences that belong to the pool of licences purchased from Redstor. To purchase additional licences, please contact your software provider.

To add/Remove licences:

1. In the **Licence** column, select the type of licence you wish to add, e.g. "Server Edition".

- In the **Number of Licences to add or remove** box, type the number of licences to add/remove.



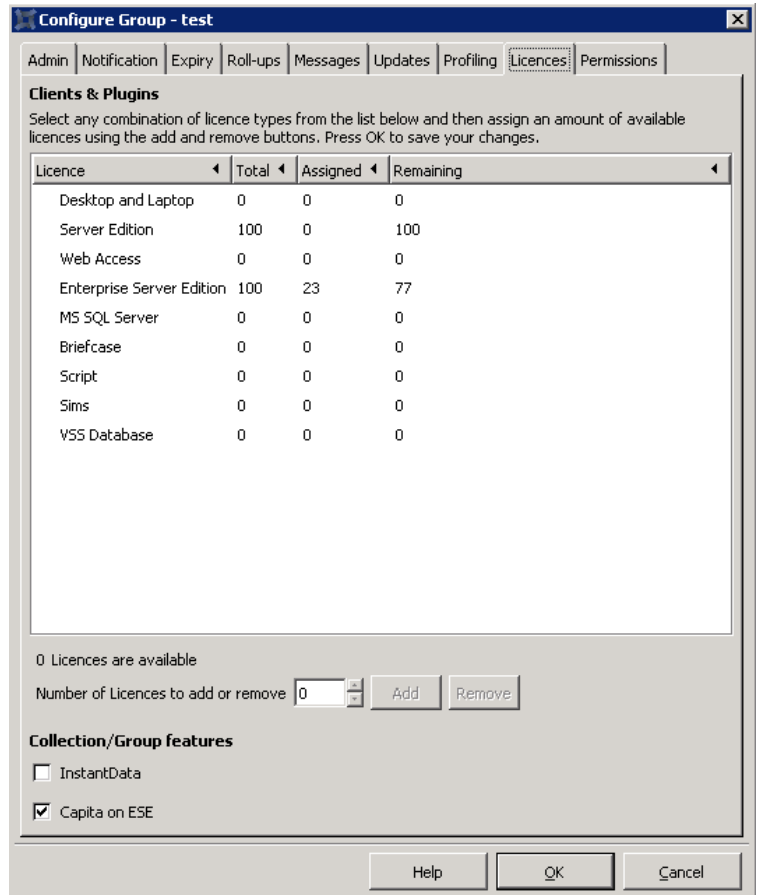
Tip: If the **Add** button is disabled, ensure that the **Collection** to which the **Group** belongs has sufficient licences assigned to it.

- Click the **Add/Remove** button.
- Click **OK**.



Note: The “InstantData” and “Capita on ESE” licences must be enabled on the **Collection** first before they can be enabled on the **Group**.

For more information, see *Step 3, Add licences to Backup Groups* in Chapter 2, “Getting started”.



The screenshot shows the 'Configure Group - test' dialog box with the 'Licences' tab selected. The 'Clients & Plugins' section contains a table with the following data:

Licence	Total	Assigned	Remaining
Desktop and Laptop	0	0	0
Server Edition	100	0	100
Web Access	0	0	0
Enterprise Server Edition	100	23	77
MS SQL Server	0	0	0
Briefcase	0	0	0
Script	0	0	0
Sims	0	0	0
VSS Database	0	0	0

Below the table, it states '0 Licences are available'. The 'Number of Licences to add or remove' is set to 0. There are 'Add' and 'Remove' buttons. The 'Collection/Group features' section has checkboxes for 'InstantData' (unchecked) and 'Capita on ESE' (checked). At the bottom are 'Help', 'OK', and 'Cancel' buttons.

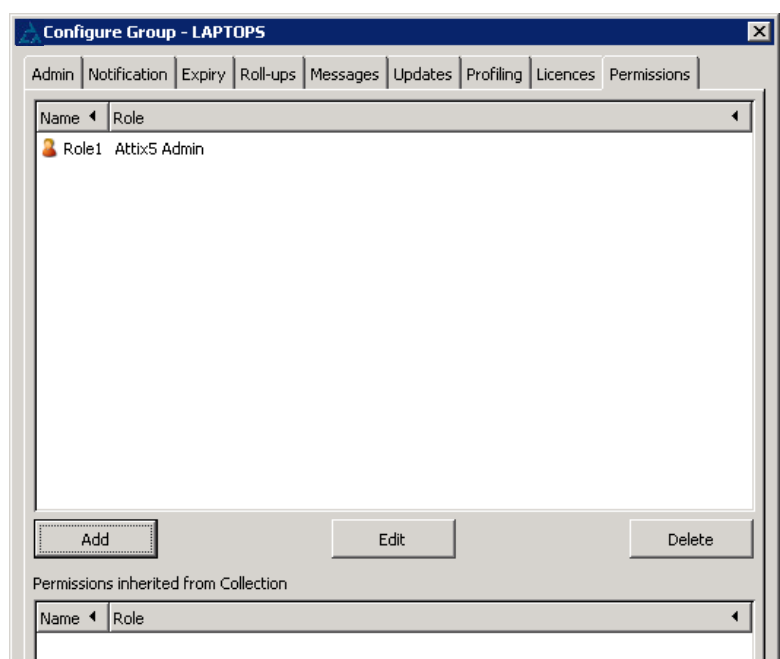
Permissions tab



Warning: Please refer to Chapter 9, “User Access Management” before configuring this tab. Access Users/Groups must be created and configured before you can assign permissions to a Group.

To add Access Users or Access Groups:

- Click the **Add** button.
- In the **Group Permissions** dialog box that appears, select the Group/User name in the **Name** drop-down list, select its coinciding role in the **Role** drop-down list, and then click the **Create** button.
- The **Group Permissions** dialog box



The screenshot shows the 'Configure Group - LAPTOPS' dialog box with the 'Permissions' tab selected. The 'Name' and 'Role' drop-down lists are visible, with 'Role1' and 'Attix5 Admin' selected respectively. Below the lists are 'Add', 'Edit', and 'Delete' buttons. At the bottom, it says 'Permissions inherited from Collection' and shows another 'Name' and 'Role' drop-down list.

will remain open to enable you to add additional Users/Groups. Repeat the process to add new Users/Groups if necessary.

4. When you have added all the necessary Users/Groups, click **Close**.

The new Users/Groups will display in the Permissions list. You can edit or delete Users/Groups in this list at any time.



Note: Only permissions configured in the User Access Management view will be available to the Access Users when they log in with their user accounts. For more information, see Chapter 9, “User Access Management”.

To edit Users/Groups:

1. Select the User/Group you wish to edit.
2. Click the **Edit** button.
3. In the **Group Permissions** dialog box that appears, modify the settings as desired.
4. Click **Create**.
5. Click **Close**.

The Permissions list will be updated to reflect the changes.

To delete Users/Groups:

1. Select the User/Group you wish to delete.
2. Click the **Delete** button.

The User/Group will disappear from the Permissions list.

Moving Groups

You can move Backup Groups between Collections.



Note: All licences allocated to the Group will be moved to the target Collection.

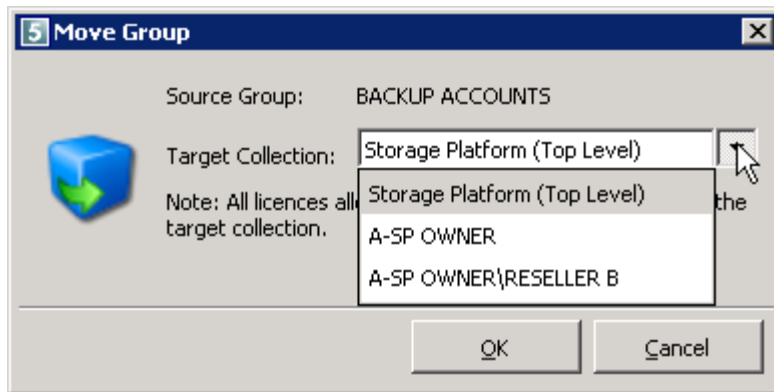


Warning: Moving a Group will be prevented in the following instances:

- If the sum of Storage Limits of all Groups in the Collection will exceed the Collection’s Storage Limit.
- If the Allowed Storage Overspill of a Group is higher than the Storage Overspill of the Collection, it is moved to.

To move a Backup Group:

1. In the Account Management view, expand the Account Management tree and select a Group name.
2. On the **Group** menu, click **Move**. Alternatively, right-click the Group name and then click **Move** on shortcut menu that appears.
3. In the **Move Group** dialog box that appears, select a target Collection name.



4. Click **OK**.

The Backup Group will be moved to the target Collection, along with all licences allocated to it and it will inherit the rights assigned to the Collection. Backup Accounts belonging to the Group will be updated when the next backup is initiated.

Exporting the list of Accounts

You can generate a CSV file of all Backup Accounts belonging to a Backup Group. This file can then be opened in a spreadsheet editor.

To export a list of all Backup Accounts belonging to a Backup Group:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Accounts belong.
2. On the **Tools** menu, click **Export CSV**. Alternatively, click the **Export to CSV** button on the main toolbar.
3. In the **Choose export location** dialog box that appears, type a name for the CSV file in the **Name** box or accept the default name provided.
4. Use the **Save in folder** drop-down list and, if necessary, the **Browse for other folders** function to select a location in which to save the file or accept the default location.
5. Click **Save**.

A CSV file containing a list of all the Backup Accounts in the Group will be saved to the specified location and can be opened in any spreadsheet program.



Example:

	A	B	C	D	E	F	G	H
1	Account Name	Size	Data Protected	On Disk	Account Usage	Archives	Last Backup Date	Create Date
2	2007EX32VM	1024	0	0	0	0	N/A	2009/07/14
3	MACKIE	1024	0	0	0	1	2009/07/14 13:21	2009/07/14
4	QAWIN2003	1024	0	190948723	0	182	2009/07/13 10:15	2009/07/10
5	XPDLV51	1024	0	155189074	0	216	2009/07/10 18:09	2009/07/10
6								

Creating Backup Client deployments

You can create Backup Client deployments to enable users to create Backup Accounts belonging to a particular Backup Group. These deployments can contain pre-configured Backup Account Setup information. For more information, see “Deployment Wizard” later in this chapter.



Warning: Certain antivirus programs may result in deployment failures. In such cases, you may need to disable antivirus scanning for the duration of the deployment process.

Select one of the licences below to create the relevant Backup Client installer:

☒ Desktop & Laptop Edition
☐ Server Edition
☐ Enterprise Server Edition

Note: Only licences allocated to the group "mygroup" are shown

Specify the target architecture:

☒ 64-bit (x64)
☐ 32-bit (x86)

☒ Show Advanced Options

[Reset to Defaults](#)
[Load settings from a file...](#)

Working with Group Certificates

As a Backup Administrator, you may find it useful to have access to the encryption keys used by Backup Accounts. You can gain access to these by requesting a Group Certificate from Redstor and then uploading it to the Storage Platform using the SP Console.



Note:

- Redstor requires a formal letter of request from a Company Director before a Group Certificate will be issued.
- This functionality is only available to users with full SP Console Administrative rights. For more information on user permissions, see Chapter 9, “User Access Management”.

When you request a Group Certificate, a public and private key pair is generated. The public key is used to encrypt the users’ encryption key and only the private key can decrypt it. This key pair is stored on your machine, protected by a passphrase, which you will be prompted to choose when requesting the Group Certificate. The public key is then included in a Group Certificate signed by the Redstor LicenceServer, and stored with the Group on the Storage Platform.

As users back up data, their encryption keys are encrypted with the public key that is stored in the Group Certificate. These encrypted versions of the keys are then stored on the Storage Platform. You can download the encrypted keys and decrypt them on your machine using an SP Console that has the matching Group

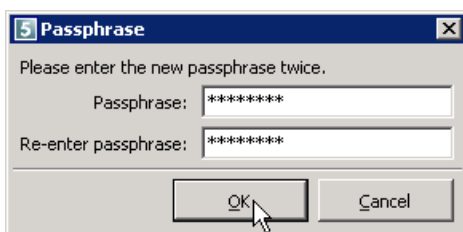
Certificate private key. In order to do that, you will need to provide the passphrase that decrypts the private key stored on your machine. Since the keys can only be decrypted by the private key, it is only possible for the person in possession of the private key and the passphrase to view them.

To request a Group Certificate:

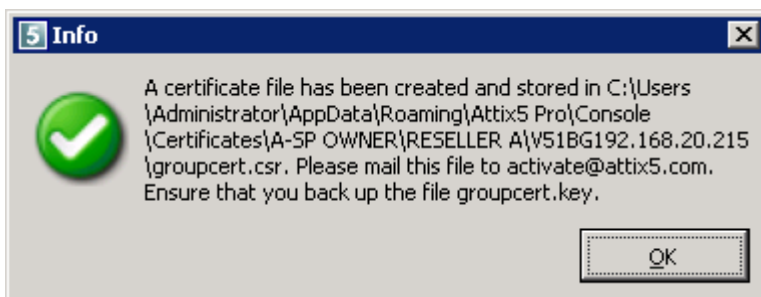
1. In the Account Management tree, select the Group name.
2. On the **Group** menu, click **Certificate**. Alternatively, right-click the Group name and then click **Certificate** on the shortcut menu.
3. In the **Group Certificate** dialog box that appears, click **Request Certificate**.
4. In the Information box that appears, click **OK**.
5. In the **Passphrase** dialog box that appears, type a passphrase in the boxes provided, and then click **OK**.



Warning: Please remember your passphrase..



6. An Information dialog box will indicate that a file called "groupcert.csr" has been saved in a particular location. Navigate to that location, zip the groupcert.csr file and email it to licencing@redstor.com.



Redstor will now send you a Group Certificate file called "groupcertsigned.crt". Once received, you need to upload this file to the SP Console. See below.

To upload a Group Certificate to the SP Console:

1. Navigate to the certificate on the machine running the SP Console.



Tip: The default certificate location is located in:
C:\Users\[Current user]\AppData\Roaming\<Provider/Brand e.g. Redstor Backup Pro>\Console\Certificates

2. The **Certificates** folder contains subfolders for each Collection and/or Backup Group on the Storage Platform. Paste the groupcertsigned.crt file into the relevant Group folder.



Tip: The format of the folder is GroupnameAccountServerIP.



Example: With a Collection called **A-SP OWNER**, another Collection, **RESELLER A**, within it, and a Backup Group named **BACKUP ACCOUNTS** within that, the folder would be called **BACKUPACCOUNTS192.168.20.120** and the path would be:
Certificates\A-SP OWNER\RESELLER A\BACKUPACCOUNTS192.168.20.120.

3. In the SP Console, expand the Account Management tree and then select the Group name.
4. On the **Group** menu, click **Certificate**. Alternatively, right-click the Group name and then click **Certificate** on the shortcut menu.
5. In the **Group Certificate** dialog box that appears, click **Upload Group Certificate**.



Note: This process must be authorised by your Service Provider before a certificate will be generated.

Each Backup Account user's encryption key will be captured when the Account performs a successful backup.

To confirm when a Group Certificate expires:

1. In the SP Console, expand the Account Management tree and then select the Group name.
2. In the work area, click the **Certificate** tab. The Group Certificate Information will be displayed in the top half of the tab with the expiry dates.

To reactivate the Group Certificate:

1. Locate the certificate files on the machine running the SP Console. (See **Tips** in "To upload a Group Certificate to the SP Console" above.)

There are 3 files in the Backup Group's folder:

- groupcert.csr
 - groupcert.key
 - groupcertsigned.crt
2. Zip the groupcert.csr file and email it to **licencing@redstor.com**. In the message body, mention that this is a re-activation of an existing groupcert. A new groupcertsigned.crt file will be sent back (zipped).
 3. Unzip the new file and replace the existing one.

4. Open the SP Console, right-click on the Backup Group in the Account Management tree and then click **Certificate**.
5. Click **Upload Group Certificate** and supply the passphrase.

The re-activated certificate will be uploaded and you can then view any encryption keys captured before the certificate expired.



Warning: When an existing Group Certificate has expired, do not request a new one. Please zip the contents of the certificate folder and send it to licencing@redstor.com with a request that it be renewed. **If you request a new group certificate, the current encryption keys will be lost.**

After requesting a new group certificate, new key pairs are created that will not match the current groupcert loaded on the Storage Platform and the key capture will not work. In such an event, you need to delete the current groupcert on the AccountServer.

To delete the Group Certificate on the AccountServer:

1. In the Account Management tree, select the Group name.
2. On the **Group** menu, click **Certificate**. Alternatively, right-click the Group name and then click **Certificate** on the shortcut menu.
3. In the **Group Certificate** dialog box that appears, click **Delete Certificate**.
4. In the Confirmation dialog box that appears, click **Yes**.



Note: You may wish to delete the Group Certificate if:

- you requested a new groupcert after the previous one expired (See Warning above)
- you cannot find the Certificate folder mentioned above
- you cannot recall the passphrase to access the keys

Account Management licencing

A **Licencing** tab that displays in the work area when you select a Group or Collection in the Account Management tree provides you with a summary of all licences allocated to the Storage Platform.

Account Management

Storage Platform

A-SP OWNER

RESELLER A

BACKUP ACCOUNTS

RESELLER B

Accounts

Licensing

Licence	Total	Assigned	Remaining
Desktop and Laptop	8	0	8
Server Edition	10	1	9
Web Access	8	0	8
MS SQL Server	7	0	7



Note: You can add/remove licences that belong to the pool of licences purchased from Redstor. To purchase additional licences, please contact your software provider.

To add/remove licences:

1. In the Account Management tree, select the Group or Collection name.
2. On the **Group** or **Collection** menu, click **Configure**. Alternatively, click the **Configure** button on the main toolbar or right-click the Group or Collection name and then click **Configure** on the shortcut menu that appears.
3. In the **Configure Group** dialog box that appears, click the **Licences** tab.
4. In the Licences list, select the name of the licence you wish to add/remove.
5. Type the number of licences to add/remove in the **Number of Licences to add or remove** box.
6. Click the **Add/Remove** button.

4 Licences are available

Number of Licences to add or remove

7. Click **OK**.



Note: When you add licences to a Group or Collection, the number of available licences in the parent Collection is updated accordingly.

The number of licences assigned to the Backup Group will display in the **Total** column on the **Licences** tab in the **Configure Group** dialog box.

5 Configure Group - BACKUP ACCOUNTS				
Admin	Notification	Expiry	Roll-ups	Messages
Updates	Profiling	Licences	Permissions	
Licence	Total	Assigned	Remaining	
Desktop and Laptop	8	0	8	
Server Edition	12	1	11	
Web Access	8	0	8	

The number of licences will also display in the **Total** column on the **Licensing** tab in the Account Management view.

Account Management		Accounts	Licensing
Storage Platform			
A-SP OWNER			
RESELLER A			
BACKUP ACCOUNTS			
RESELLER B			

Licence	Total	Assigned	Remaining
Desktop and Laptop	8	0	8
Server Edition	10	1	9
Web Access	8	0	8
MS SQL Server	7	0	7

Once licences have been added to a Backup Group, a deployment MSI (installer) file can be created from it and used to install Backup Clients onto desktop, laptop or server machines. Those installations will enable users to create new Backup Accounts that belong to the Backup Group from which the MSI was deployed. For each Backup Account created, one licence is assigned and the number of remaining licences available for use displays in the **Remaining** column.

Access often-used reports

To access often-used Backup Group reports:

1. In the Account Management view, expand the Account Management tree and right-click the Backup Group whose reports you want to access.
2. Point to **Reports**, and then select the report that you want to access.

Backup Accounts

If a Backup Group is selected in the Account Management tree, a list of all the Backup Accounts belonging to that Group will display in the work area along with individual Account data such as the Account limit, last backup size, total backup size, etc.

Account Management		Accounts Licencing			
<div>Storage Platform</div> <div>A-SP OWNER</div> <div>RESELLER A</div> <div>RESELLER B</div> <div>LAPTOPS</div> <div>SERVERS</div>		Account Name	Size	Data Protected (last backup)	Data Protected (all backups)
		DAVEB	1.00 GB	1.11 MB	1.11 MB
		JENNYD	1.00 GB	0.54 KB	1.05 KB
		JOHNB	1.00 GB	908.70 MB	908.70 MB
		Total: 3	3.00 GB	909.81 MB	909.81 MB



Note: The Access User with Admin rights has full control of the Backup Accounts. For more information on Access Users, see “Permissions tab” earlier in this chapter.

You can perform the following actions on Backup Accounts using the SP Console:

- Delete Account



Note: For information on creating Backup Accounts, please refer to the relevant Backup Client User Manual (Desktop & Laptop User Manual, Server Edition User Manual or Enterprise Server Edition User Manual).

- Change Account size
- Enable/Disable Account
- Upgrade/Downgrade Account
- Rename Account
- Connect to Backup Client (See “Remote Management” later in this chapter)
- Change User Password
- Change Group (Move Account)
- Export Account list to CSV

The following additional and advanced options are also available when you right-click on a Backup Account.

- Import Backup Snapshot
- Export Restore Snapshot
- Initiate/Schedule Integrity Check
- Change the StorageServer it connects to
- Override StorageServer IP address
- Copy Account GUID to Clipboard
- Access often-used reports

**Tip:**

- Multiple Accounts in the same Backup Group can be highlighted by using the **Shift** or **Ctrl** keys and then selecting them with your mouse.
- The actions most commonly performed by administrators can be initiated using the buttons on the toolbar.

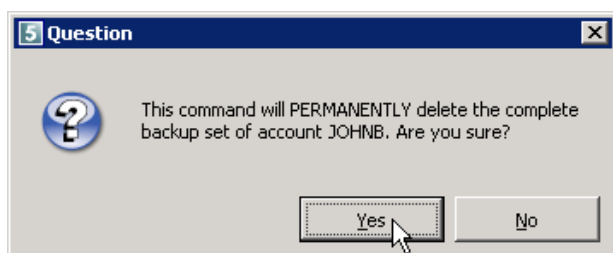
Adding and deleting Accounts

Adding Backup Accounts

Backup Accounts are created during the Account Wizard. For more information, please refer to the relevant Client User Manual (Backup Pro Desktop & Laptop User Manual or Backup Edition Server Edition User Manual).

To delete an Account:

1. In the Account Management view, expand the Storage Platform tree and select the name of the Group to which the Account belongs.
2. In the work area, ensure that the **Accounts** tab is selected.
3. Select the name of the Account you wish to delete.
4. On the **Accounts** menu, click **Delete**. Alternatively, click the **Delete** button on the main toolbar or right-click the Account name and then click **Delete** on the shortcut menu.
5. In the confirmation box that displays, click **Yes**.

**Warning:**

- This command will **PERMANENTLY** delete the complete set of backed up files belonging to the Backup Account. If unsure about whether or not to delete the Backup Account, please consider disabling the Backup Account instead. (See "Disabling Accounts" later in this chapter.)
- If the Backup Account is being mirrored, by default it will be deleted from the MirrorServer as soon as the delete command is issued.

Changing an Account's size

As the Backup Administrator, you may wish to change the backup limit for Accounts. You can increase or decrease the disk space allowed for each Account's backups by changing the Account size in the Console.

To change the Account size:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Account belongs.
2. In the work area, ensure that the **Accounts** tab is selected.
3. Select the name of the Account you wish to modify.
4. On the **Accounts** menu, click **Change Account Size**. Alternatively, click the **Size** button on the main toolbar or right-click the Account name and then click **Change Account Size** on the shortcut menu that appears.
5. In the **Change Account Size** dialog box that appears, type the new Account limit (in Gigabytes) in the **Enter a new size in GB** box, and then click **OK**.

The Account size limit will be updated on the Storage Platform and the new maximum value will display in the **Size** column on the **Accounts** tab.

Account Management				
<div> <div>Storage Platform</div> <div> <div>A-SP OWNER</div> <div>RESELLER A</div> <div>RESELLER B</div> <div>LAPTOPS</div> </div> </div>		Accounts	Licensing	
Account Name	Size	Data Protected (last backup)	Data Protected (all backups)	
DAVEB	5.00 GB	1.11 MB	1.11 MB	
JENNYD	1.00 GB	0.54 KB	1.05 KB	
Total: 3	7.00 GB	909.81 MB	909.81 MB	

Enabling an Account

Using the SP Console, you can enable an Account that was previously disabled, thereby allowing it to back up to the Storage Platform again.



Note:

- A Backup Account could have been disabled as a result of manual disabling (see below) or an action such as a Backup Snapshot (see *Importing a Backup Snapshot* later in this chapter).
- A Backup Snapshot created using the ESE Backup Client will only result in the Backup Account being locked for further backups. File/folder restores can still be performed as usual.

To enable an Account:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Account belongs.
2. In the work area, ensure that the **Accounts** tab is selected.
3. Select the name of the Account you wish to enable.
4. On the **Accounts** menu, click **Enable**. Alternatively, click the **Enable** button on the main toolbar or right-click the Account name and then click **Enable** on the shortcut menu that appears.




The Account will be enabled and a message logged in the **Diagnostics** area:

```
192.168.20.120 |
15:51:36 Info: A-SP OWNER\RESELLER B\LAPTOPS - [RPC from Admin@192.168.20.215] group.UpdateUsersEnabled
15:51:36 Info: 1 Account enabled in group A-SP OWNER\RESELLER B\LAPTOPS
```

The user of this Backup Account will now be able to back up to the Storage Platform.



Tip: Enabled Accounts display as active on the **Accounts** tab. Disabled Accounts are greyed out.

Accounts		Licencing		
	Account Name	Size	Data Protected (last backup)	Data Protected (all backups)
	DAVEB	5.00 GB	1.11 MB	1.11 MB
	JENNYD	1.00 GB	0.54 KB	1.05 KB
	JOHNB	1.00 GB	908.70 MB	908.70 MB
Total: 3		7.00 GB	909.81 MB	909.81 MB

Disabling an Account

Using the Console, you can disable an Account, preventing any further backups to the Storage Platform from that Account.

To disable an Account:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Account belongs.
2. In the work area, ensure that the **Accounts** tab is selected.
3. Select the name of the Account you wish to disable.
4. On the **Accounts** menu, click **Disable**. Alternatively, click the **Disable** button on the main toolbar or right-click the Account name and then click **Disable** on the shortcut menu that appears.




The Account will be disabled and a message logged in the **Diagnostics** area:

```
192.168.20.120 |
15:52:25 Info: 1 Account disabled in group A-SP OWNER\RESELLER B\LAPTOPS
15:52:34 Info: A-SP OWNER\RESELLER B\LAPTOPS - [RPC from Admin@192.168.20.215] group.UpdateUsersEnabled
```

The user of this Backup Account will no longer be able to back up to the Storage Platform but you can enable the Account again at any time to allow further backups. For more information, see “Enabling an Account” above.



Tip: Disabled Accounts are greyed out on the **Accounts** tab.

Accounts		Licencing		
	Account Name	Size	Data Protected (last backup)	Data Protected (all backups)
	DAVEB	5.00 GB	1.11 MB	1.11 MB
	JENNYD	1.00 GB	0.54 KB	1.05 KB
	JOHNB	1.00 GB	908.70 MB	908.70 MB
Total: 3		7.00 GB	909.81 MB	909.81 MB

Upgrading an Account

Using the SP Console, you can upgrade an Account to change its status from Evaluation to Registered.



Note:

- In cases where Backup Accounts have been created within Evaluation Groups, they will automatically be created as Evaluation Accounts. If the Group is later upgraded to "Registered", its Accounts will remain "Evaluation" Accounts until manually upgraded as described below.
- Once an Account is registered, it is advised to move it out of the Evaluation Group and into a Registered one.
- Evaluation Accounts display an advertisement in the form of a banner at the bottom of the application window. This banner cannot be closed by the user.

To upgrade an Account:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Account belongs.
2. In the work area, ensure that the **Accounts** tab is selected.
3. Select the name of the Account you wish to upgrade.
4. On the **Account** menu, click **Upgrade**. Alternatively, click the **Upgrade** button on the main toolbar or right-click the Account name and then click **Upgrade** on the shortcut menu that appears.
5. Click the button on the toolbar. Alternatively, on the **Accounts** menu, click **Upgrade**.

The Account status will be changed from Evaluation to Registered and a record of the change will display in the **Diagnostics** area:

```

192.168.20.120
17:02:10 Info: A-SP OWNER\RESELLER B\LAPTOPS - [RPC from Admin@192.168.20.215] group.UpdateUsersType
17:02:10 Info: Type changed for account DAVEB in group A-SP OWNER\RESELLER B\LAPTOPS
  
```



Tip: The Account status will display on the **Accounts** tab's **Registered** column:

Accounts		Licencing			
Account Name	Size	Data Protected (last backup)	Data Protected (all backups)	Registered	
DAVEB	5.00 GB	1.11 MB	1.11 MB	TRUE	
JENNYD	1.00 GB	0.54 KB	1.05 KB	TRUE	
JOHNB	1.00 GB	908.70 MB	908.70 MB	TRUE	
Total: 3		7.00 GB	909.81 MB	909.81 MB	

To change a Backup Account's status from Registered to Evaluation, you need to *Downgrade* the Account.

Downgrading an Account

Using the SP Console, you can downgrade an Account to change its status from Registered to Evaluation.




To downgrade an Account:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Account belongs.
2. Ensure that the **Accounts** tab is selected.
3. Select the name of the Account you wish to downgrade.
4. Click the **Downgrade** button on the toolbar. Alternatively, on the **Accounts** menu, click **Downgrade**.

The Backup Account status will be changed from Registered to Evaluation and a record of the change displays in the **Diagnostics** area:

192.168.20.120
17:09:39 Info: A-SP OWNER\RESELLER B\LAPTOPS - [RP] from Admin@192.168.20.215] group.UpdateUsersType
17:09:39 Info: Type changed for account DAVEB in group A-SP OWNER\RESELLER B\LAPTOPS

The Account status will display on the **Accounts** tab's **Registered** column:

Accounts		Licencing			
◀	Account Name	Size	Data Protected (last backup)	Data Protected (all backups)	Registered ▶
	DAVEB	5.00 GB	1.11 MB	1.11 MB	FALSE
	JENNYD	1.00 GB	0.54 KB	1.05 KB	TRUE
	JOHNB	1.00 GB	908.70 MB	908.70 MB	TRUE
Total: 3		7.00 GB	909.81 MB	909.81 MB	



Tip:

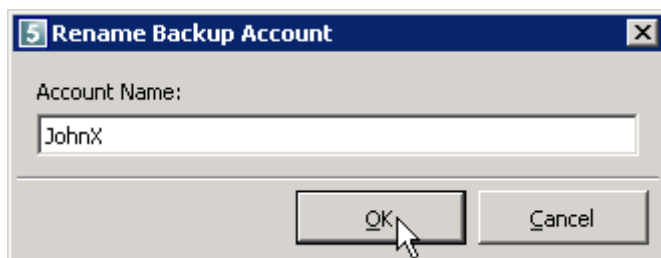
- If you do not see the **Registered** column on the **Accounts** tab, click **Customise Columns** on the **View** menu or click the **Columns** button on the main toolbar, select the **Registered** check box, and then click **Close**.
- You can then move the column to the position that best suits your management needs by clicking the column heading and using a drag-and-drop operation.

Renaming a Backup Account

You can rename a Backup Account using the SP Console.

To rename a Backup Account:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Account you wish to rename.
4. On the **Account** menu, click **Rename**. Alternatively, right-click the Account name and then click **Rename** in the shortcut menu that appears.
5. In the **Rename Backup Account** dialog box that appears, type a new name for the Account.
6. Click **OK**.



At the next backup or restore, the Client will adopt the new name and update its details accordingly.

Changing a user password

You can change the user password associated with a Backup Account using the SP Console.

To change a user password:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Account you wish to change the user password for.
4. On the **Account** menu, click **Change user password**. Alternatively, right-click the Account name and then click **Change user password** on the shortcut menu.
5. In the **Change password for user <username>** dialog box that appears, type the new password in the **Password** box and then re-type it in the **Re-enter password** box.
6. Click **OK**.



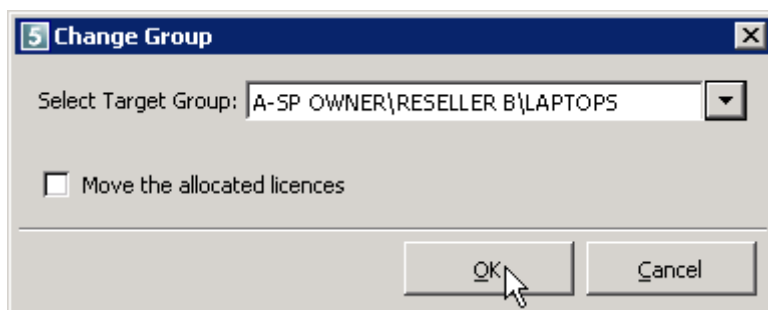
Once the Backup Client user changes the password on the client-side, he/she will be able to back up data to the Storage Platform using the new password.

Changing the Backup Group (moving a Backup Account)

Using the SP Console, you can move a Backup Account from one Backup Group to another.

To change the Backup Group that a Backup Account belongs to:

1. In the Account Management view, expand the Account Management tree and select the name of the Backup Group to which the Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Backup Account you wish to move.
4. On the **Account** menu, click **Change Group**. Alternatively, right-click the Backup Account name and then click **Change Group** on the shortcut menu.
5. In the **Change Group** box that appears, use the **Select Target Group** arrow to select a new Backup Group name.
6. Select the **Move the allocated licences** check box to ensure that all associated licences are moved with the Account.
7. Click **OK**.



The Backup Account will disappear from the Group's Accounts list and be listed under the new Backup Group name in the Account Management tree. Select the name of the new destination Backup Group in the Account Management tree to view and continue managing the Backup Account.



Note: If you move the Backup Account from a Backup Group configured for mirroring to a Group that is not configured for mirroring, the Account will be deleted from the MirrorServer after the retention period set on the MirrorServer has elapsed (the default is 24 hours).

If you move the Backup Account from a Backup Group on a StorageServer that is configured for mirroring to a Group on another StorageServer (also configured for mirroring but to a different MirrorServer), the Backup Account will be moved between MirrorServers automatically. No manual MirrorServer configuration is necessary.

Changing the StorageServer

Using the SP Console, you can move a Backup Account from one StorageServer to another.



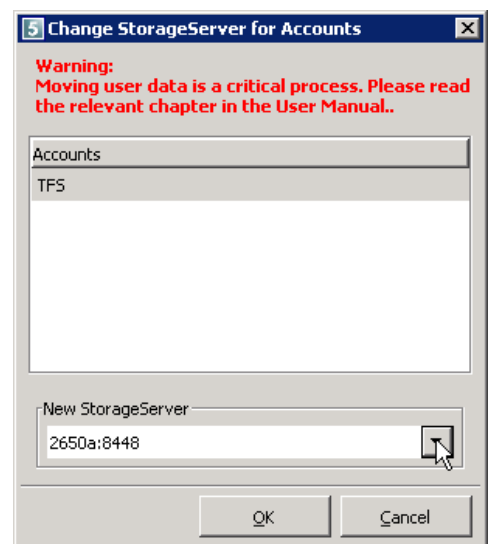
Note: You will only see this option on your **Account** menu if you manage more than one StorageServer with the SP Console.



Warning: When moving a Backup Account between StorageServers, the major and minor versions of the destination StorageServer must be the same as the source StorageServer, or later. If this is not the case, the move will fail with an appropriate message appearing in the StorageServer log. For example: In V6.2.3, 6 is the major version and 2 is the minor version. Therefore, if the source StorageServer is V6.2.3, the Backup Account can be moved to a V6.2.2 StorageServer, but not to a V6.1.1 StorageServer.

To move a Backup Account to another StorageServer:

1. In the Account Management view, expand the Account Management tree and select the name of the Backup Group to which the Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Backup Account you wish to move.
4. On the **Account** menu, click **Change StorageServer**. Alternatively, right-click the Backup Account name and then click **Change StorageServer** on the shortcut menu.
5. In the **Change StorageServer** box that appears, select a Backup Account in the Accounts list.
6. Use the **New StorageServer** arrow to select a destination StorageServer.
7. Click **OK**.



The Backup Account will be moved to the new StorageServer.

Advanced actions

Advanced actions can be accessed from the menu bar or by right-clicking on an Account name and then pointing to **Advanced** in the shortcut menu.

Importing a Backup Snapshot

The Backup Snapshot feature in DL, SE and ESE Backup Clients enables users to create a backup of all selected files on the Client for transferral to the Storage Platform using a removable storage device.



Tip: This feature is useful when the amount of data to be transferred to the Storage Platform is too great to transfer over the Internet.

After creating a Backup Snapshot using a Backup Client (see the relevant Backup Client User Manual), you can import the data to a StorageServer using the SP Console as described below.



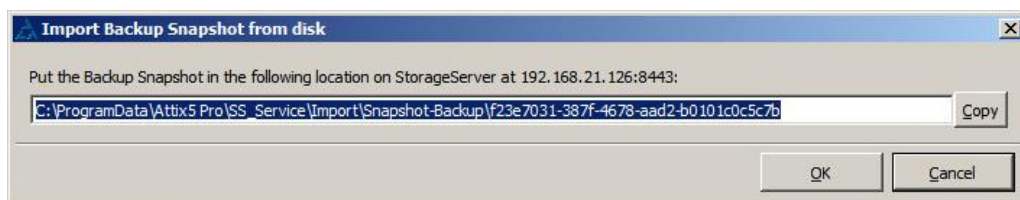
Note: The Backup Account will remain disabled until the Backup Snapshot has been imported. This means that backups cannot be performed until the account is enabled again.



Tip: If for some reason the Snapshot from an ESE Backup Client will not be imported, the Backup Account can be enabled manually. Please see the Knowledge Base (article <http://partners.redstor.com/faqs/562>) for this workaround.

To import a Backup Snapshot:

1. In the Account Management view, expand the Account Management tree and then select the name of the Group to which the Client's Backup Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Account that you wish to import the Snapshot for.
4. On the **Account** menu, point to **Advanced**, and then click **Import Backup Snapshot**. Alternatively, right-click the Account name, point to **Advanced**, and then click **Import Backup Snapshot** on the shortcut menu.
5. In the **Import Backup Snapshot from disk** dialog box that displays, click the **Copy** button to copy the StorageServer location path.





Note: Alternatively for steps 5-7, if for some reason it is not possible to open the location path in a Windows Explorer window, the entire GUID-labelled folder on the storage device can be transferred to the appropriate folder on the StorageServer:

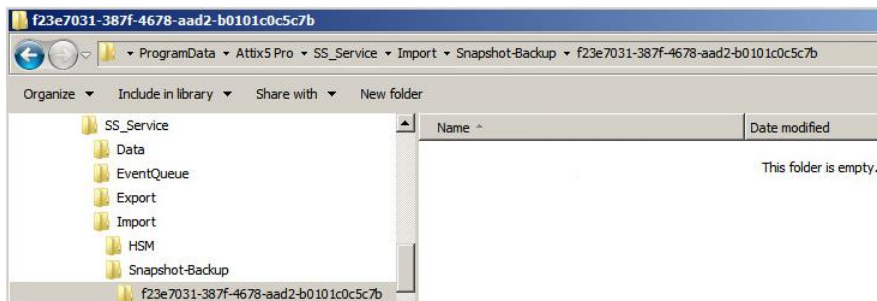
%ProgramData%\<product folder>\<SS_Service>\Import\Snapshot-Backup\

For example:

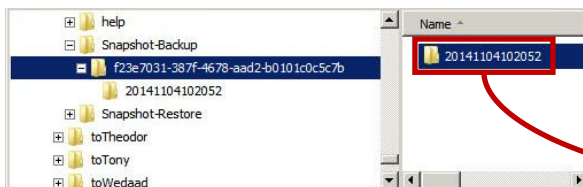
E:\Snapshot-Backup**f23e7031-387f-4678-aad2-b0101c0c5c7b** is transferred to

C:\ProgramData\Attix5 Pro\SS_Service\Import\Snapshot-Backup**f23e7031-387f-4678-aad2-b0101c0c5c7b**

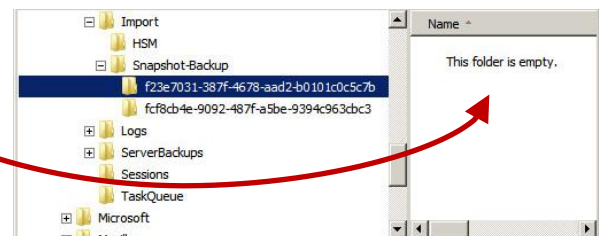
- Access the StorageServer on which the Account resides, open Windows Explorer, paste the location path into the Address bar, and then press **Enter**.



- Transfer the dated Snapshot folder (e.g. 20100506xxxxxx, created on the 06th May 2010) within the GUID-labelled folder to the destination folder of the same GUID on the StorageServer. (As per the location provided in step 6.)



Backup Snapshot on storage device



StorageServer destination

- Once the Snapshot data is in the correct location, click **OK** in the SP Console's **Import Backup Snapshot from disk** dialog box.
- In the **Info** dialog box that appears, click **OK**. When the process has completed, it will be logged in the StorageServer's Diagnostics window, for example:.

16:13:34 Info: A-SP OWNER\RESELLER A\SERVERS\SERVER01 - Backup Snapshot Import completed successfully.

The StorageServer has now been updated with the latest Backup Client data and the Backup Account will be re-enabled automatically. The Backup Client user can now continue backing up data as usual.

Exporting a Restore Snapshot (Disaster Recovery)

The Restore Snapshot feature enables you to take data from the Storage Platform and make it available to the Backup Client for restores using a mobile storage device.



Tip: This feature is useful when the amount of data to be transferred to the Backup Client is too great to transfer over the Internet within a limited time frame (e.g. in a Disaster Recovery scenario).

To export a Restore Snapshot to a mobile storage device:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Client's Backup Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Account for which you wish to export a Restore Snapshot.
4. On the **Accounts** menu, point to **Advanced**, and then click **Export Restore Snapshot**. Alternatively, right-click the Account name, point to **Advanced**, and then click **Export Restore Snapshot** on the shortcut menu that appears.
5. In the **Snapshot recovery from Disk** dialog box that appears, select a backup to restore using the **Backup to restore** arrow.
6. If the encryption key is not currently available, an **Encryption key** box will prompt you for it.



Note: To enable the Console to export the Restore Snapshot upon clicking OK, as described in step 8 below, enter the key and then proceed to the next step. Leaving this box blank will result in the Restore Snapshot being queued until the Backup Client performs its next backup.



Tip: If the key is currently available, the **Encryption key** box will NOT be displayed, and the snapshot export will be performed upon clicking **OK** in step 8 below.

7. Click the **Copy** button to copy the Restore Snapshot location to the Clipboard or make a note of the Restore Snapshot location to refer to later.
8. Click **OK**. Once complete, the StorageServer Diagnostics window will log a "Snapshot Restore completed successfully" message.



Warning: Ensure that your Snapshot location has enough free space.

9. On the StorageServer machine, open Windows Explorer, paste the Restore Snapshot location into the Address bar (or navigate to it), and then press **Enter**.
10. Copy the Snapshot and paste it into the desired location on your mobile storage device.

You can now transfer the snapshot data from the storage device or server to another machine and import the backup information to the Backup Client, enabling the user to restore any/all files via the **Restore** tab. For more information, please refer to the relevant Backup Client User Manual.



Tip: You can also restore data using the SP Console's Remote Management feature. See "Remote Management" later in this chapter.

Preparing a Recovery Server for a Snapshot

Another option for recovery to site is to use a dedicated StorageServer, acting as a Recovery StorageServer, which can be made locally available to the site (especially useful if the site has experienced major data loss over multiple Backup Accounts). This can be done by recovering from a typical MirrorServer that hosts the same Backup Account data required for such a disaster recovery. For more information and assistance with the process, please contact your Redstor vendor.

Importing HSM data

To make a Backup Account's HSM data available for restore via the Backup Client, you need to import the relevant HSM data.



Note:

- HSM data consists of roll-ups that have been archived before being deleted from the Storage Platform. For more information on roll-ups, see Roll-ups tab in the Backup Groups section of Chapter 6, "Account Management".)
- The ESE Backup Client can import HSM data directly without it having been imported through the Storage Platform. Follow the "Restore Snapshots" procedure in the ESE Backup Client manual to achieve this.

To import a Backup Account's HSM data:

1. Navigate to the StorageServer's HSM Export folder.



Tip: The location is defined on the **HSM** tab of the **Configure StorageServer** dialog box. See HSM tab in Chapter 7, "Storage Platform Configuration".

2. Note the name of the Backup Group to which the Backup Account belongs and then open the matching folder in the HSM location.



Tip: The matching HSM folder names follow the syntax: **GroupName_AccountName**, e.g. **ALLSERVERS_SERVER6**.

3. HSM folders are named according to the last backup date contained in the roll-up. Open the folder containing the roll-ups you wish to make available to the Client for restoring.



Tip: Roll-up folders names follow the syntax:

YearMonthDayHourMinuteSecond. E.g. **20100614115403** (which represents 14th June 2010, 11:54:03).

4. In the archived roll-up folder, you'll find either an HSM folder (with a folder name that matches that of the Backup Account GUID) or a single HSM Tar file.
 - a. If a full HSM folder is available, copy it to the Clipboard (the folder name should match that of the Backup Account GUID.)
 - b. If a single Tar file is available, you first need to untar the file and then copy the untarred files and folders to the Clipboard.
5. Paste the HSM data (GUID folder name) into the StorageServer's HSM Import folder.



Tip:

- The **Import** folder location is defined on the **HSM** tab of the **Configure StorageServer** dialog box. See HSM tab in Chapter 7, "Storage Platform Configuration".
- To import multiple HSM archives, paste the HSM data (GUID folder name) for each archive that you want to import into the StorageServer's HSM Import folder. If you are informed that the folder already exists and asked whether you want to merge the folders, click **Yes**.

The HSM data should now be available for restore from the Backup Client.

Initiating/Scheduling Integrity Checks

You can do an Integrity Check on a specific Backup Account, which is useful if you suspect that the data may be corrupt on the Storage Platform. During each monthly roll-up, should any data be corrupt, an automatic Integrity Check will occur to fix or retransmit corrupt data.



Warning:

- An Integrity Check may take some time to complete and may result in high processor usage.
- For ESE Backup Accounts - the Integrity Check with the "Apply Fixes" option set, will not run in the following instances:
 - A backup or restore process is in progress
 - A partial or incomplete backup exists that has not been finalised (Use the 'Purge Partial Backups' option in the SP Console before running the Integrity Check)
 - A StorageServer roll-up is in progress



Tip: You can monitor the progress of an Integrity Check in the StorageServer Diagnostics window (at the bottom of the screen).

You can initiate an Integrity Check manually or schedule automatic Integrity Checks.

To initiate an Integrity Check manually:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Backup Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Backup Account on which you wish to perform an Integrity Check.
4. On the **Account** menu, point to **Advanced**, point to **Integrity Checks**, and then click **Initiate Integrity Check now**. Alternatively, right-click the Backup Account name, point to **Advanced**, point to **Integrity Checks**, and then click **Initiate Integrity Check now** on the shortcut menu that appears.
5. In the **Initiate Integrity Check now** dialog box that appears, select the checks to be performed, whether or not to apply fixes and whether to run the Integrity Check on the StorageServer or MirrorServer.



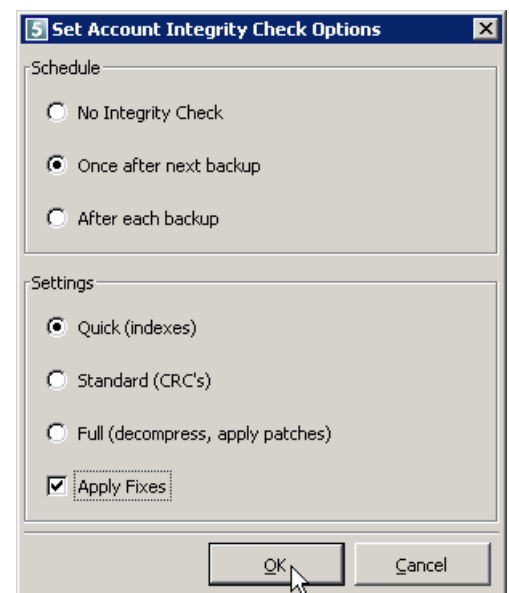
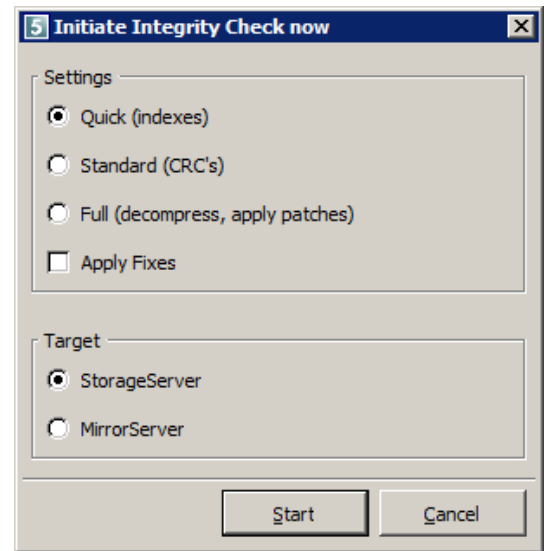
Note:

- The MirrorServer target will be greyed out if the Backup Account's StorageServer or Backup Group is not mirrored.
- If you choose to run the Integrity Check on the MirrorServer, you must be logged in to the SP Console with the "admin" account and the MirrorServer must be set to use the Master password and not a Mirror Account.

6. Click **Start**.

To schedule an Integrity Check:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Backup Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the name of the Account on which you wish to perform an Integrity Check.
4. On the **Account** menu, point to **Advanced**, point to **Integrity Checks**, and then click **Schedule an Integrity Check**. Alternatively, right-click the Account name, point to **Advanced**, point to **Integrity Checks**, and then click **Schedule an Integrity Check** on the shortcut menu that appears.
5. Select one of the following options:



- Once after next backup
- After each backup



Tip: *After each backup is less processor intensive than the other options as it will only verify the latest backup and not all available backups on the Storage Platform.*

6. In the **Settings** area, specify the level that should be checked and whether or not fixes should be applied.
7. Click **OK**.



Warning:

- *Note that the only way for the Integrity Check to fix a problem is to remove the problem file from the backups. If this happens, the Backup Client will receive an error during the next backup which will flag the particular file for a full backup.*
- *Only a small number of Integrity Checks can be run at the same time so some checks may be postponed until the next backup if too many are running.*

Overriding the StorageServer IP

This feature does not move the Backup Account data. It is used when the StorageServer IP address or host name has changed or to temporarily send the data of the next backup to a different StorageServer.



Warning: *Changing the StorageServer IP address will cause ALL Backup Clients that connect to it to use the new address. Incorrect use of this feature may corrupt the user database.*



Note: *You will only see this option if you manage more than one StorageServer with the SP Console.*

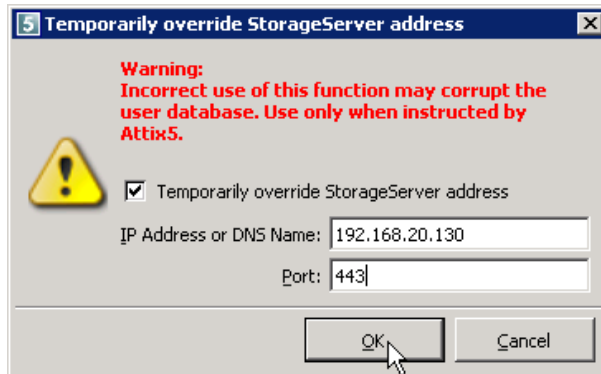


Tip: *You can use this feature to back up to a snapshot server. See "Preparing a Recovery Server for a Snapshot".*

To override the StorageServer IP:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Backup Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, select the Account(s) you wish to move.
4. On the **Account** menu, point to **Advanced**, and then click **Override StorageServer IP**. Alternatively, right-click the Account name, point to **Advanced**, and then click **Override StorageServer IP** in the shortcut menu.

5. In the Temporarily override StorageServer address dialog box that appears, select the **Temporarily override StorageServer address** check box.



6. In the **IP Address or DNS** name box, type the IP address or DNS name of the StorageServer you wish to move the Account to.
7. In the **Port** box, type the port number the SP Console must use to connect to the Storage Platform.
8. Click **OK**.

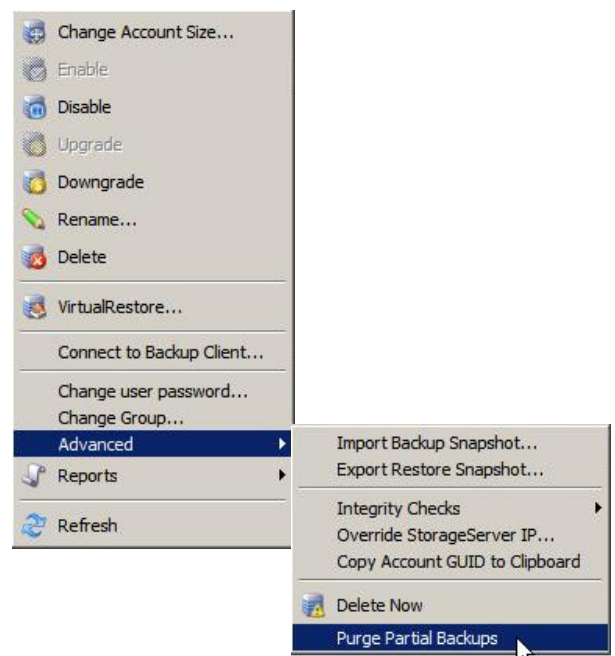
Purging Partial Backups

Partial backups are unfinalised backup processes on the Storage Platform. This occurs when staged backups are interrupted or are cancelled unexpectedly so that the backup can be resumed at a later stage. This also occurs when streaming backups are interrupted where the “retry” attempts are still in progress.

This also prevents integrity checks from being run or for integrity problems to be corrected (see “Initiating/Scheduling Integrity Checks” earlier in this section). To correct this, these “partial” backups should be removed from the StorageServer.

To purge partial backups:

1. In the Account Management view, expand the Account Management tree and select the name of the Group to which the Backup Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, right-click the Backup Account(s) whose partial backups need to be purged.
4. Select **Advanced** and then **Purge Partial Backups**.



- Click **OK** on the warning dialog that appears.



Note:

- For ESE Backup Accounts, the Purge instruction will automatically be performed every 24 hours.
- ESE Backup Clients cannot resume partial backups unless the retry attempts haven't been exhausted. Therefore, the Purge task will automatically be run if a backup fails or is cancelled.
- Any data received for a Backup Account during a partial backup will need to be backed up again.

Converting SE Accounts to the ESE data format

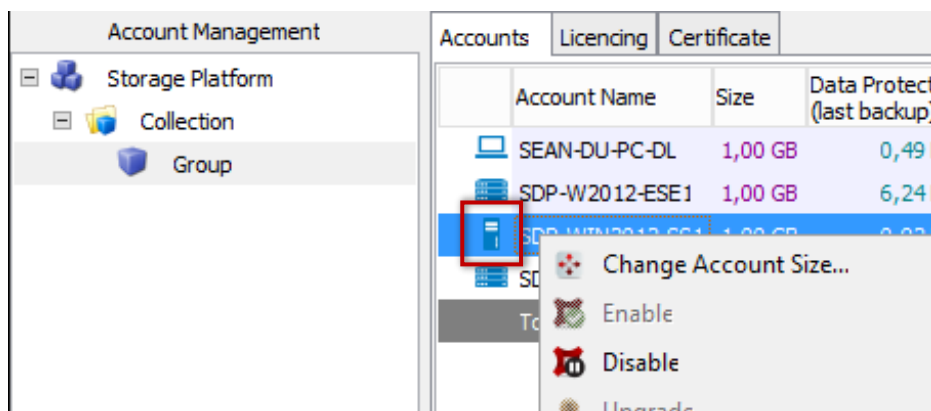
In order to facilitate upgrading existing Server Edition (SE) Backup Clients to Enterprise Server Edition (ESE), existing SE Backup Accounts on the Storage Platform can be converted to the data format used by ESE. Only then can the newly installed ESE Backup Client connect to the same account.

To convert Backup Accounts:

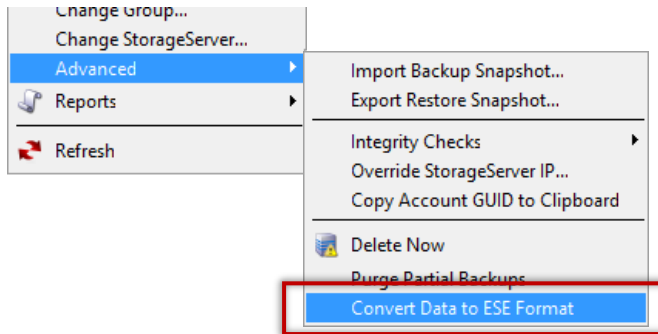


Note: You'll need Storage Platform or Group Administrator permissions to view the menu item below.

- In the **Account Management** view, expand the Account Management tree and select the Group contain the SE account(s) to be converted.
- Select one or many Backup Accounts. (Multiple Accounts are selected by using the "CTRL" key while left-clicking the Account.)
- Right-click on a selected SE Account to bring up the context-menu.



- Select the **Advanced** menu option, and click **Convert Data to ESE Format**.



A wizard will be initiated guiding you through the rest of the process. Take note of the prompts and requirements displayed on the screen.



Note: ESE licences will automatically be allocated to newly converted ESE Accounts' Backup Clients once an Account has been converted. However, it is recommended that you allocate the appropriate number of ESE licences to affected Backup Groups for effective Storage Platform licence maintenance.



Tip: Run the "SE to ESE Conversion" report (located in the **Reports** view, under "Enterprise > Other") to list all converted Accounts and those that haven't yet been connected to with the ESE Backup Client.

(See the section, "SE Backup Account Conversion" later in this chapter for details on the conversion process.)

Accessing often-used reports

To access often-used Backup Account reports:

1. In the **Account Management** view, expand the Account Management tree and select the name of the Group to which the Backup Account belongs.
2. Ensure that the **Accounts** tab is selected in the work area.
3. In the Accounts list, right-click the Backup Account(s) whose reports you want to access.
4. Select **Reports** and then select the report that you want to access.

SE Backup Account Conversion

In order to facilitate upgrading existing Server Edition (SE) Backup Clients to Enterprise Server Edition (ESE), existing SE Backup Accounts on the Storage Platform can be converted to the data format used by ESE. Only then can the newly installed ESE Backup Client connect to the same account.

How does it work?

When the conversion of an Account is initiated, a new task on the Storage Platform is started. This task will sequentially convert each Account in the selected list, one after the other. At a high level, the process is as follows:

1. The Account is prepared by purging any partial backups and running a quick integrity check to correct any data discrepancies.

(The “conversion” task on the StorageServer can still be cancelled. See the section, “Cancelling a task”, in Chapter 7, “Storage Platform Configuration”).

2. Backup indexes and files are converted to the new format resulting in “duplicate” copies.

*(The “conversion” task on the StorageServer can **not** be cancelled.)*



Note: This uses additional disk space on the affected StorageServer.

3. At this point the Account is also disabled and locked to prevent any other Storage Platform tasks from being performed on it, such as backups.
4. Once the conversion has taken place the data is verified with another quick integrity check.
5. The original SE-format Account data is deleted, an ESE licence is reserved on the Backup Group, and the ESE Backup Client is able to connect to the converted Account.
6. If a MirrorServer is affected by this Account, a conversion task for the relevant Account will be performed immediately.

Before converting an Account

1. Restrictions

Limitations exist that will prevent an SE Backup Account from being converted:

- **Plug-ins.** If the Backup Client of the Account uses plug-ins that are not provided or supported in ESE. The following plug-ins will not prevent the Account from being converted:
 - Email Notification (Plug-in ID 19)
 - Script [(Plug-in ID 20)
 - VSS [(Plug-in ID 29)
 - System State (using WSB) (Plug-in ID 36)
 - UNC (Plug-in ID 100)
 - Workspace (Plug-in ID 1000)

Take note of the prompts on the screen. All data, however, will still be accessible for restores from the Backup Client after the Account has been converted.

- **Operating system compatibility.** If the operating system of the Account's Backup Client currently resides on an operating system not supported by ESE.

2. Requirements

- Ensure that you have at least 1GB of RAM available on the StorageServer for every 1 million files in the Backup Account that is to be converted.



Note: This is over and above the minimum 4GB required by normal StorageServer operation.

- Because of Step 2 mentioned above, ensure that sufficient disk space is available on the StorageServer containing the Accounts that are to be converted – 10% more than what is currently used by the Account in question.



Note: Post conversion, the SE-format Account data is deleted.

Converting SE Backup Accounts

To convert Backup Accounts, see the section above “Converting SE Accounts to the ESE data format” under “Advanced Actions”.

Remote Management

You can connect to and administer Backup Pro DL and SE Backup Clients using the Storage Platform Console's Remote Management feature.



Note:

- Remote Management is not available for ESE Backup Clients.
- Remote Management must be enabled in the Backup Client before you can connect to it. (For more information, please refer to the relevant Client User Manual.)
- If Multiple Backup Sets are enabled on the Client, only the Default backup set will be accessible using the Remote Management feature.



Tip: This feature is especially useful if you do not have GUI access via the Client (e.g. if the Client is installed on a Linux operating system with the GUI feature disabled.)

Two connection options are available:

- Connect using your Storage Platform Access Account
- Connect using the standard Remote Management username and password



Note: A user connecting with Access Account credentials will only have access to the Remote Management functionality assigned to his/her Role. Users connecting with the standard Remote Management username and password will have full access to all Remote Management functionality. For more information, see Chapter 9, “User Access Management”.

By using this feature, you can initiate backups and restores, modify the backup selection, view log files and configure a number of options ranging from the backup schedule to file exclusions and patching settings.

Connecting to a Backup Account

To connect to a Backup Account:

1. Ensure that Remote Management is enabled in the Backup Client. (For more information, please refer to the relevant Backup Client User Manual.)
2. In the **Account Management** view, expand the Account Management tree and select the name of the Group to which the Backup Account belongs.
3. On the **Account** menu, click **Connect to Backup Client**. Alternatively, double-click the Account name or right-click it, and then click **Connect to Backup Client**.
4. In the **Connect to Backup Client** dialog box that appears, ensure that the correct IP Address and the Storage Platform port number display the boxes provided.
5. Select the type of credentials you wish to use.



Note:

- If **Allow SP controlled** access was selected when Remote Management was enabled on the Client, you will be able to use the Storage Platform credentials to connect to the Client.
 - If **Allow custom access** was enabled and a particular username and password were specified in the Client, you need to select **Use these credentials** and type those credentials in the boxes provided.
6. Select **Remember these details** to keep these connection settings configured for your next Remote Management connection.
 7. Click **OK**.

Once connected to a Backup Client, four tabs are displayed: **Summary**, **Backup Selection**, **Restore** and **Logs**.

The **Summary** tab displays Backup Account information and configuration settings (a summary of the Backup Client with information ranging from the Account limit, software version and Operating System to the Backup Schedule and installed plug-ins).

Summary	Backup Selection	Restore	Logs
General Information <p> Group Name : A-SP OWNER\RESELLER A Account Name : ACCOUNT 01 Account Limit : 1 024 MB Product Name : Attix5 Pro SE Software Version : V6.0.0.653 Service Pack 0 Operating System : Windows XP </p>			
Last Backup Information <p> Last Backup Time : 2009/12/17 08:59:16 AM Data Selected : 907.39 MB Files Selected : 3341 Account Usage : 88.7% Amount of Backups Available : 5 </p>			
Backup Schedule <p> Daily Backup Schedule : Daily @ 19h00 Advanced Schedule : None </p>			
Plug-in Information <p> Installed Plug-ins : Not Available </p>			

You can use the **Backup Selection** tab to modify the backup selection on the remote machine. Right-click the files and/or folders and use the shortcut menus to change their selection statuses. Click the **Backup** button on the main toolbar to initiate the backup process. If the previous backup failed for any reason, the Storage Platform Console will prompt whether the previous backup must be resumed.

Summary	Backup Selection	Restore	Logs			
ACCOUNT 01 <ul style="list-style-type: none"> C:\ <ul style="list-style-type: none"> Config.Msi Documents and Settings <ul style="list-style-type: none"> Administrator <ul style="list-style-type: none"> Application Data Cookies Desktop Favorites Local Settings My Documents My Music My Pictures Visual Studio NetHood PrintHood Recent 		<table border="1"> <thead> <tr> <th>Filename</th> </tr> </thead> <tbody> <tr> <td><input type="radio"/> Desktop.ini</td> </tr> <tr> <td><input type="radio"/> Sample Music.lnk</td> </tr> </tbody> </table>		Filename	<input type="radio"/> Desktop.ini	<input type="radio"/> Sample Music.lnk
Filename						
<input type="radio"/> Desktop.ini						
<input type="radio"/> Sample Music.lnk						
		Filters <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Include <input type="checkbox"/> Exclude <input type="checkbox"/> Deselect <input type="checkbox"/> Refresh 				

You can use the **Restore** tab to restore files and folders. Select the folders to restore and then click the **Restore** button on the main toolbar to initiate the restore process.

Summary	Backup Selection	Restore	Logs												
Backups <ul style="list-style-type: none"> 2009/12/17 07:02:39 PM <ul style="list-style-type: none"> C:\ <ul style="list-style-type: none"> Documents and Set <ul style="list-style-type: none"> Administrator <ul style="list-style-type: none"> Templates 		<table border="1"> <thead> <tr> <th>Filename</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="radio"/> excel.xls</td> <td>5 KB</td> </tr> <tr> <td><input type="radio"/> excel4.xls</td> <td>1 KB</td> </tr> <tr> <td><input type="radio"/> powerpnt.ppt</td> <td>12 KB</td> </tr> <tr> <td><input type="radio"/> winword.doc</td> <td>4 KB</td> </tr> <tr> <td><input type="radio"/> winword2.doc</td> <td>1 KB</td> </tr> </tbody> </table>		Filename	Size	<input checked="" type="radio"/> excel.xls	5 KB	<input type="radio"/> excel4.xls	1 KB	<input type="radio"/> powerpnt.ppt	12 KB	<input type="radio"/> winword.doc	4 KB	<input type="radio"/> winword2.doc	1 KB
Filename	Size														
<input checked="" type="radio"/> excel.xls	5 KB														
<input type="radio"/> excel4.xls	1 KB														
<input type="radio"/> powerpnt.ppt	12 KB														
<input type="radio"/> winword.doc	4 KB														
<input type="radio"/> winword2.doc	1 KB														

On the **Logs** tab, you can view Backup and Restore Logs. To view only a summary of the logs, click the **Summary** button on the main toolbar.



Tip: While a Backup or Restore process is running, you can use the **Cancel** button to stop the process.

Summary	Backup Selection	Restore	Logs
Date	Size		
2009/12/17 07:00:03 PM	5 KB		Last few lines of log file
2009/12/17 10:52:26 AM	430 KB		Message: 19:02:49 -----
2009/12/17 10:49:28 AM	6 KB		Message: 19:02:49 Backu
2009/12/17 10:44:28 AM	3 KB		Message: 19:02:49 New f
2009/12/17 10:43:50 AM	3 KB		Message: 19:02:49 Remo
2009/12/17 10:36:08 AM	3 KB		Message: 19:02:49 Patch
			Message: 19:02:49 Skipp
			Message: 19:02:49 Disk U
			Message: 19:02:49 Cache
			Message: 19:02:49 Temp

Configuring a Backup Account



Warning: Please read through this section carefully before changing any of the settings. Incorrect settings could cause serious problems or even stop the Backup Client from functioning.

To configure a Backup Client via Remote Management:

1. Click the **Options** button on the main toolbar.
2. In the **Backup Agent Properties** dialog box that appears, configure the tabs as desired. For more information on the tabs available, see sections below.
3. Click **OK**.

Backup Agent dialog box

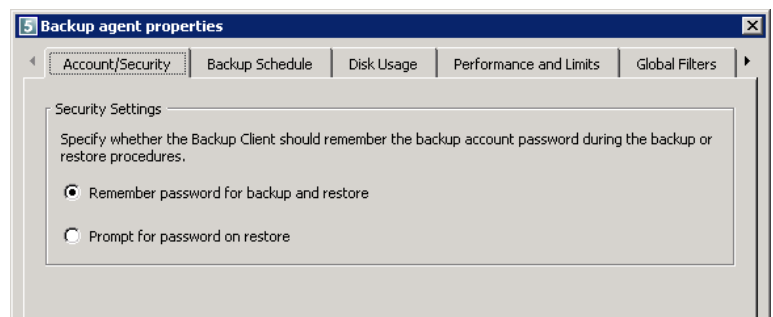
The **Backup Agent** dialog box provides you with Backup Client properties also available in the Backup Client's **Options and Settings** dialog box. The tabs described below enable you to modify these properties from within the SP Console.

Account/Security tab

Security Settings

The Account/Security tab allows you to select whether or not the Backup Client is to remember the Backup Account password during backups and restores. Two options are available:

- Remember password for backup and restore: The Backup Client remembers the user password when doing a backup or restore. This is the default setting.



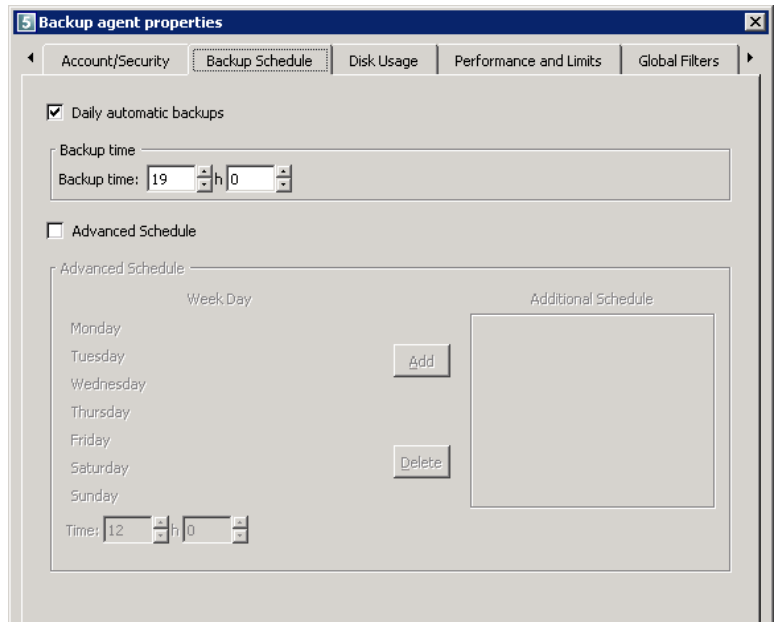
- Prompt for password on restore: The Backup Client prompts for the user password during the restore process.

Backup Schedule tab

You can modify the backup schedule on the **Backup Schedule** tab. Settings on this tab are identical to those available in the Backup Client's **Options and Settings** dialog box. For more information on configuring backup schedules, please refer to the relevant Backup Client User Manual.



Warning: If disabling automatic backups, all backups will have to be initiated manually.

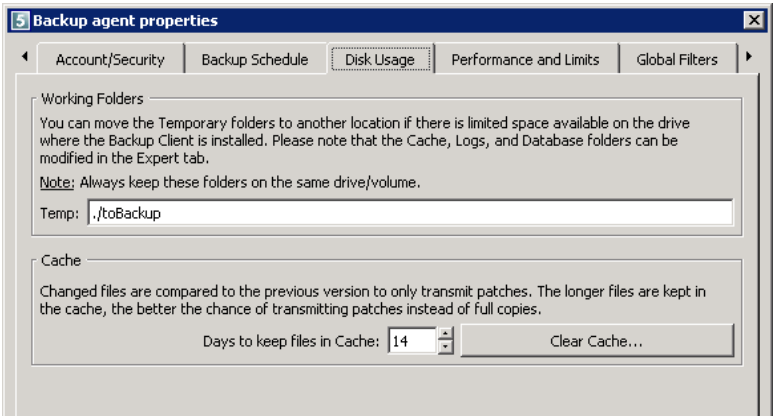


Disk Usage tab

You can use the **Disk Usage** tab to change the **Temp** folder location and the number of days that files are to be kept in the cache.

Working Folders section

If there is limited space on the drive where the Backup Client is installed, you can move **Temp** folder, which is used as a temporary workspace for backups and restores, to another location.



Note: *Cache, Logs and Database* folders can be moved using the **Expert** tab.



Warning:

- The **Cache** and **Temp** folders must reside on the same drive/volume.
- If the database or any of the folders are stored on a network share, please ensure that the Backup Service has the correct permissions to connect and write to that share.

Cache section

When modifications are made to a file, the Backup Client only transmits changes to that file, as opposed to transmitting the complete file again. This is accomplished by the use of a local cache.

By default, recently modified files are kept in the Cache for 20 days, after which they will be deleted. Once a file has been flushed from the cache, a full copy will be backed up when any modifications are made to the file. The longer files are kept in the Cache, the better the chance of only transmitting patches instead of full copies and thus reducing the amount of data that needs to be transmitted. If there is limited disk space available, consider shortening the time files are kept in the cache.



Warning: If 0 days are specified for caching, patching is disabled. All files in the **Cache** will be deleted and full copies of changed files will be backed up to the server during each backup.

To delete the current cache, click the **Clear Cache** button. If the cache is deleted, full copies of the selected files will be re-sent to the Storage Platform during the next backup.



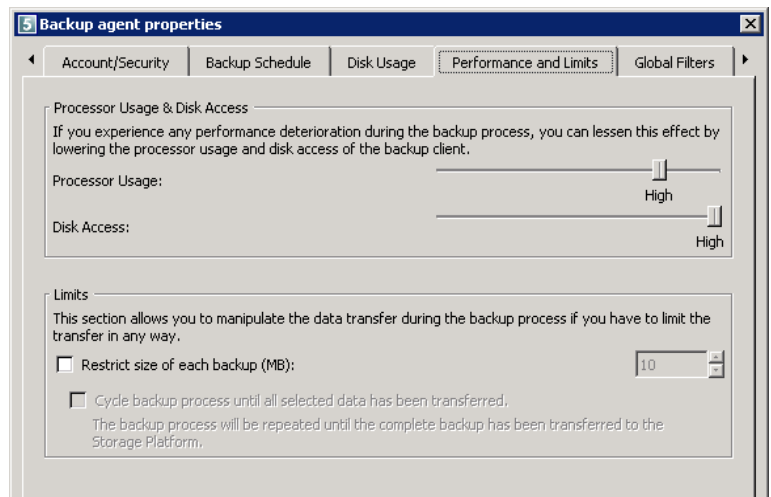
Note: The Backup Client will log the message **Doing monthly cache cleanup** once a month. This maintenance task is to ensure that there are no redundant files in the Cache.

Performance and Limits tab

On the **Performance and Limits** tab, you can change the processor usage, disk access and data transfer limits.

Processor Usage and Disk Access section

The Backup Client uses a fair portion of the available processor power to patch, compress and encrypt files during the backup process. If the computer is being used at the same time, the user may experience some performance deterioration. You can lessen this effect by lowering the Client's processor usage and disk access.



To lower the Backup Client processor usage:

Move the **Processor Usage** slider to the left.



Warning: If the highest **Processor Usage** setting is used, it will affect server performance during the backup.

To lower the Backup Client disk access:

Move the **Disk Access** slider to the left.



***Tip:** The process will take longer if this setting is lowered but other disk-intensive applications will perform better.*



***Warning:** If the **High** setting is used, the Backup Client will continuously use all available disk access to read and write to the disk. This will, however, ensure that the process completes as fast as possible.*

Limits section

You can use the **Limits** tab to limit data transfer speed and/or the size of each backup.

To limit data transfer speed:

1. Select the Limit outgoing transfer speed (Kbyte/s) to check box.
2. Type a value in Kbytes/second in the box provided.
3. Click **OK**.

To limit the size of each backup:

1. Select the Restrict size of each backup (MB) check box.
2. Type a maximum value amount of data that may be transferred during each backup.
3. If you wish to enable a backup cycle, select Cycle backup process until all selected data has been transferred.
4. Click **OK**.



***Note:** If this option is enabled, it may take several backups before all files are backed up to the Storage Platform. This feature is especially useful when using a slow Internet connection and there are problems with transferring large backups.*

Global Filters tab

Global Filters enables you to exclude files and/or folders globally and set up a No Compression filter.

Exclude Files section

Exclude these files enables you to specify that files with certain file names, extensions or last modified dates be excluded from all backup selections.



Tip: You can use wildcards. E.g. *.mp3 will exclude all MP3 files from backups.



Example: To exclude all MP3 and AVI files, type: *.mp3;*.avi in the text box. (Separate entries with a semicolon.)

You can also exclude files based on their *last modified* date by selecting the **Do not back up files older than** check box and specifying a date in the box provided.



Note: The **Date Exclusions Filter** uses the file modify date as a reference and not the file create date.

Exclude Folders section

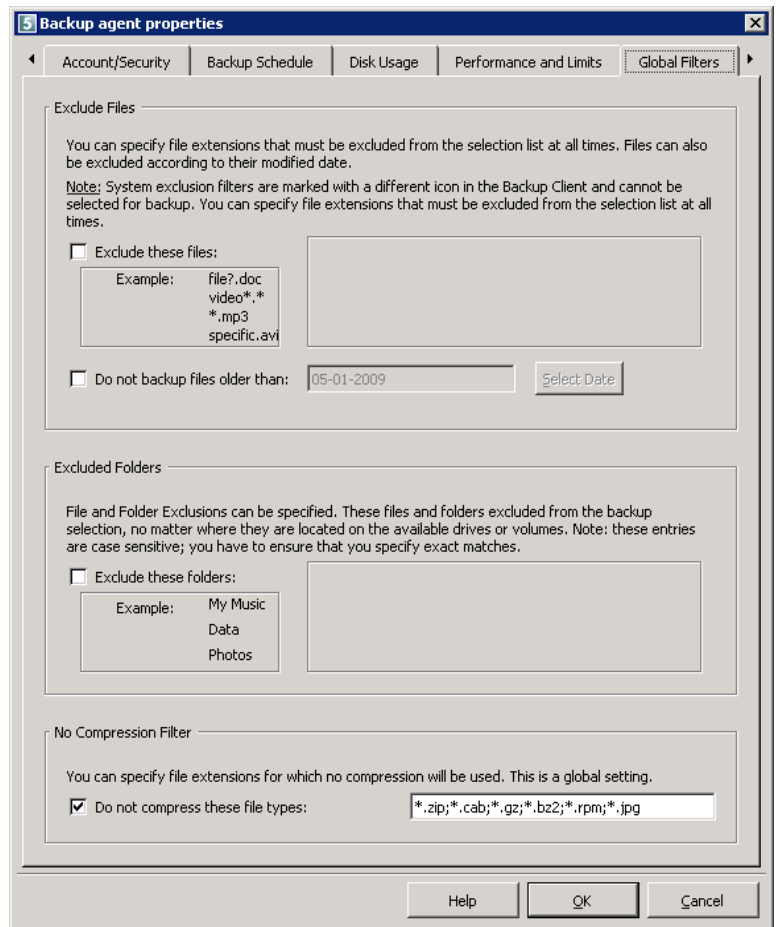
Exclude these folders enables you to exclude certain folders from all backup selections.



Note: The **Date Exclusions Filter** uses the file modify date as a reference and not the file create date.

No Compression Filter section

Compression is not effective on all file types as some files may already be compressed or cannot be compressed at all. The Backup Client could increase processor usage and spend some time trying to compress these files. This filter enables you to specify a list of file extensions that must not be compressed during the backup process. The list of file types specified by default are types known for not compressing well.



The screenshot shows the 'Backup agent properties' dialog box with the 'Global Filters' tab selected. The 'Exclude Files' section contains a text box for file extensions (example: file?.doc, video*, *.mp3, specific.avi) and a checkbox for 'Exclude these files'. Below it is a checkbox for 'Do not backup files older than' with a date field set to '05-01-2009' and a 'Select Date' button. The 'Excluded Folders' section has a text box for folder names (example: My Music, Data, Photos) and a checkbox for 'Exclude these folders'. The 'No Compression Filter' section has a checkbox for 'Do not compress these file types' with a text box containing default file types: *.zip;*.cab;*.gz;*.bz2;*.rpm;*.jpg.

Advanced Options tab

Options and Retries section

- Always connect to the Storage Platform...

When the **Always connect to the Storage Platform** check box is selected, the Backup Client will connect to the Storage Platform during each backup, whether or not changes were made. This updates the last backup date stamp, even if there were no changes made to the backup set, ensuring that the Storage Platform always reflects the latest backup date.

- Complete compression/patching before sending data to the Storage Platform

During the backup process, Backup Pro SE compresses and patches files and places them in a queue to be transmitted. This queue allows transmission and compression/patching to occur in parallel, reducing the total backup time significantly.

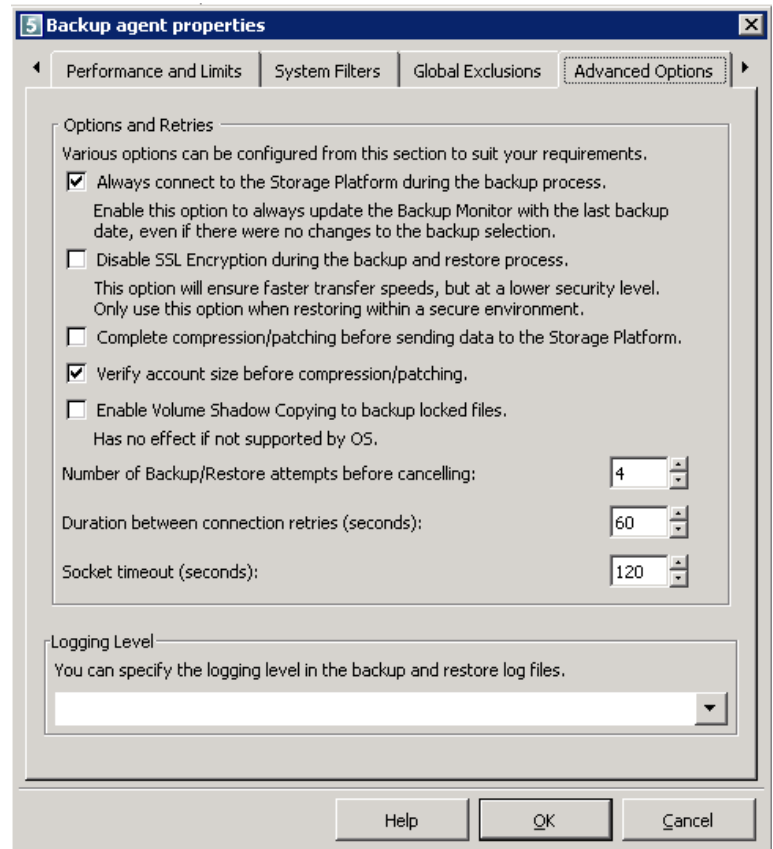
Select this option to disable multiple thread backups. This option is typically needed when using a dial-up account. With this setting enabled, the Backup Client will compress all new files and patch all modified files before starting to transmit data to the Storage Platform.

- Verify account size before compression/patching

With this setting enabled, the Backup Client verifies the Backup Account size limit on the Storage Platform before starting with the compression and/or patching. It is useful to flag Account limit issues before starting these possibly time-consuming processes.

- Enable Volume Shadow Copying to back up locked files

Microsoft Volume Shadow Copy Service (VSS) provides a solution by creating a snapshot of the data at any given point in time without any interruption to any applications. Using this option enables the backup of open or locked files.





Warning: When using the SE Backup Client, please use relevant plug-ins to back up databases, otherwise, the ESE Backup Client also backs up SQL Server databases securely using VSS.

- Use VSS to update the cache

Using this option will increase the speed of the cache update process.



Warning: This setting will increase the load on VSS and may cause VSS to fail on servers with heavy I/O (like file servers), resulting in cache update failures.

- Number of Backup/Restore attempts before cancelling

By default, the Backup Client tries to connect to the Storage Platform 4 times before cancelling the backup process. It is advised to increase the number of attempts when using a slow Internet connection. The backup will continue from the previous point of failure and not resend the entire backup.

- Duration between connection retries

By default, if the connection is dropped, the Backup Client will try to reconnect to the Storage Platform after 60 seconds. This setting enables the Backup User to increase/decrease the duration between the retries.

- Socket Timeout

The default socket timeout is 60 seconds. If the Backup Client is connected to the Storage Platform and there is no communication between the two, the time specified in this box (in seconds) is how long the Backup Client will stay connected before dropping the connection.

Logging Level section

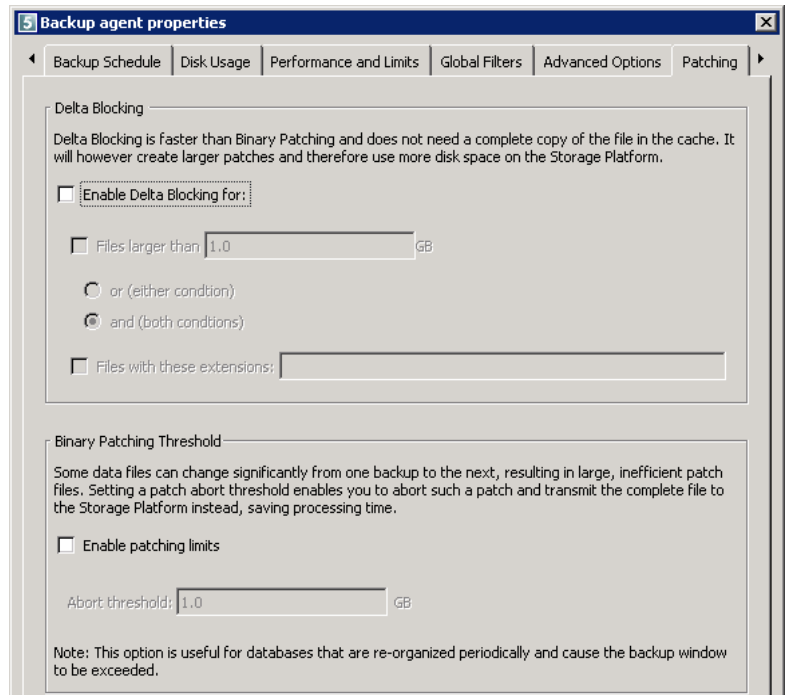
You can specify the level of information that must be included in the log files. Choose between:

- Log all messages
- Suppress detail
- Log errors and warnings

Patching tab

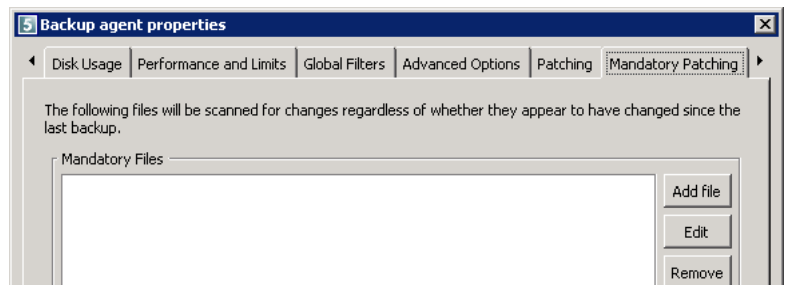
Patching is the process of extracting only the differences between files. This process minimizes the amount of data that has to be transferred to the Storage Platform. There are two types of patching available: Binary Patching (enabled by default) and Delta Blocking.


If you are not accustomed with this functionality, please refer to the Client User Manual for additional information before changing these settings.



Mandatory Patching tab

A file is considered modified if the timestamp or size changes. The Backup Client can, however, be configured to patch certain files and folders regardless of whether or not they appear to have changed since the last backup.



Files selected for mandatory patching display on the Client's **Backup Selection** tab with a green icon containing the letter "M": .



Note: Files selected for mandatory patching can be excluded by the Backup Client user. For more information, please refer to the Client User Manual.



Tip: Mandatory Patching is especially useful in situations where files are held open by an application (internally the file changed, but the change is not reflected in the last modified date on the file system or in the size of the file itself).

To select files for mandatory patching:

1. Click the **Add file** button.
2. In the **Add file** dialog box that appears, type the name of the file.
3. Click **OK** to save the settings.

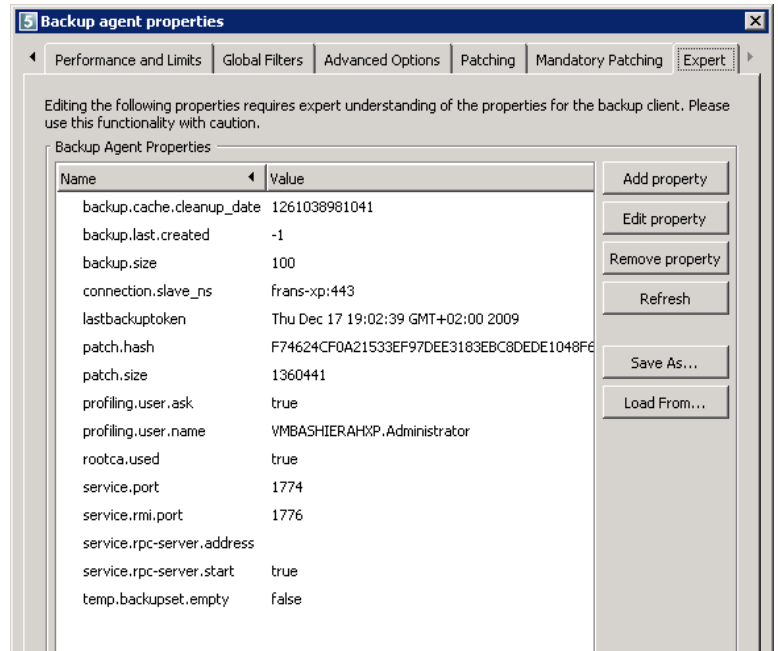
Expert tab

The **Expert** tab contains all variable settings not found on any of the other Backup Client configuration tabs. These entries are saved in the **a5backup.properties** file and the file also includes plug-in settings, if installed.



Warning: Please use this tab with caution. Incorrect use may alter the backup and restore procedures.

Use the buttons on the right to **Add**, **Edit** or **Remove** properties. Settings can be imported and exported by using the **Save As** and **Load From** buttons, and the **Refresh** button will update the Backup Client Properties section with any recent changes.



Backup Client Updates

Updating Backup Clients manually can be a time consuming exercise. Backup Pro allows you to automate this process. Desktop & Laptop Edition, Server Edition and Enterprise Server Edition can be updated automatically with the latest software version (like new releases and service packs) and brand changes during backups.

Performing automatic updates requires the following:

- Auto-updates are enabled on the AccountServer
- The AccountServer is up to date with the latest Backup Client upgrade files (for distribution to Backup Client machines)



Note: Backup Clients are always updated to the latest version and service pack available on the Storage Platform. If the version is too old to be updated, the update must be done manually.

For ESE Backup Clients, the update pack is distributed in two files per Storage Platform: one for brand updates and one for core Backup Client updates; for all other Backup Clients, one file per Storage Platform is distributed.

A separate update for each brand and operating system is created. If you have different branded Backup Clients connecting to your Storage Platform, they will be updated with their own branding.

Backup Client update activities are displayed in the Diagnostics area of the Storage Platform Console.

Enabling Auto-Updates

You can enable Auto-Updates for the complete Storage Platform (from the AccountServer) or per Collection or Group.



Warning: If a Backup Client plug-in has been deprecated, the Backup Client will only be updated to the latest version in which the plug-in was still supported.

To enable Auto Updates for the entire SP's Backup Accounts:

1. Access the **Storage Platform Configuration** view by clicking the **Storage Platform Configuration** button in the view selector.
2. Click the AccountServer node in the Storage Platform Configuration tree and then click the **Configure** button on the toolbar. Alternatively, right-click the AccountServer node and then click **Configure**.
3. Navigate to the **Updates** tab and select the **Auto-update Backup Client** check box. Ensure that the **Update File Search Path** is correct and then click **OK**.

Auto Updates are now enabled. Since all Backup Groups are set to use the Storage Platform's default Auto Update setting by default, Auto Updates are now enabled for all Backup Groups.

To enable Auto Updates at Collection/Group level:

1. Access the Account Management view by clicking the **Account Management** button in the view selector.
2. Select the Collection or Backup Group name and then click the **Configure** button on the toolbar. Alternatively, right-click the Collection or Group name and then click **Configure**.
3. Click the **Updates** tab and then select the applicable **Auto Update Backup Client** option.
 - a. **Storage Platform Default** – The setting enabled on the AccountServer (see procedure above) will be applicable
 - b. **Yes** – Auto-updates are enabled (Overrides AccountServer setting)
 - c. **No** - Auto-updates are disabled (Overrides AccountServer setting)



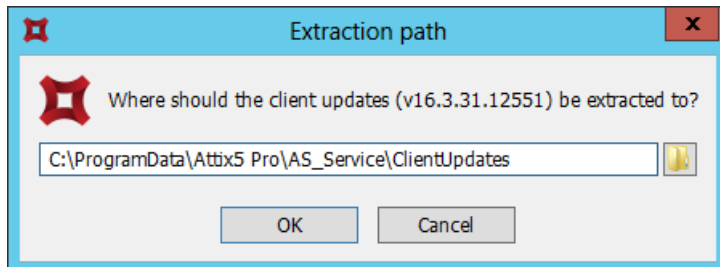
Warning: When setting the Auto-Update Backup Client option on Collection level, the setting will only be applicable for new Groups i.e. the option is not automatically propagated to existing Backup Accounts.

Update AccountServer with core Backup Client upgrades

Once an updated Backup Client upgrade file has been extracted on the AccountServer it will be available for distribution when Backup Clients request updates during the backup process.

To extract the upgrade file:

1. Run the "...ClientUpdates....exe" file where the AccountServer is installed.
2. Confirm the extraction path in the dialog box provided or enter a new one:



Note: The path must correspond to the **Update File Search Path** specified in the "Enabling Auto-Updates" procedure above.

3. Click **OK**.

The latest client updates will be extracted and can be requested by Backup Clients. However, for Enterprise Server Edition Backup Clients, updates are distributed to the respective StorageServers from where it can be requested by Backup Clients.



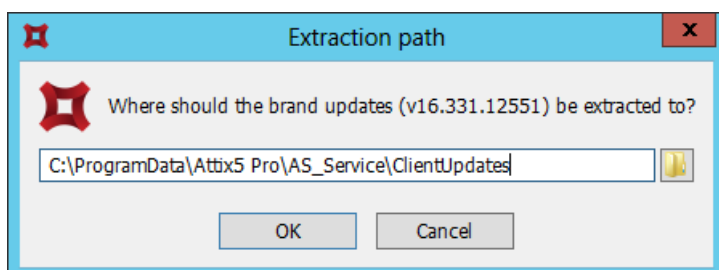
Note: The latest supported Java version is also supplied with the core Backup Client updates.

Update AccountServer with brand changes

For Enterprise Server Edition Backup Clients only, once the file with updated brand changes has been extracted on the AccountServer it will be available for distribution when Backup Clients request updates during the backup process.

To extract the upgrade file:

1. Run the "...BrandUpdates...exe" file where the AccountServer is installed.
2. Confirm the extraction path in the dialog box provided or enter a new one.





Note: The path must correspond to the Update File Search Path specified in the "Enabling Auto-Updates" procedure above.

3. Click **OK**

The brand updates will be extracted on the AccountServer and distributed to the respective StorageServers from where it can be requested by Backup Clients.

Plug-in Auto-Update process

During the backup process, the Storage Platform will compare the plug-in versions received from the Backup Client with the latest versions available on the Storage Platform. If newer versions are available, the Backup Client will be able to download the files and automatically update the installed plug-ins.

Deployment Wizard

The Deployment Wizard is used to create a single installation file (MSI) that can be preconfigured with file selections and backup permissions to install **Desktop & Laptop Edition**, **Server Edition** or **Enterprise Server Edition** Backup Client software on a computer.



Warning:

- Certain anti-virus programs may result in deployment failures. In such cases, you may need to disable antivirus scanning for the duration of the deployment process.
- To prevent ESE Backup Client deployments from failing, ensure that both the Update AccountServer with core Backup Client upgrades and Update AccountServer with brand changes have been extracted on the AccountServer.

Creating a Backup Client deployment file

To create a deployment file for a Backup Group:

1. In the Account Management view, expand the relevant Collection in the Account Management tree.
2. Right-click the name of the Backup Group to which the new Backup Accounts will belong, and then click **Deploy**.
3. The Deployment Wizard will be initiated. Follow the wizard steps described below to create the deployment file. A custom MSI installer will be built according to your wizard selections.

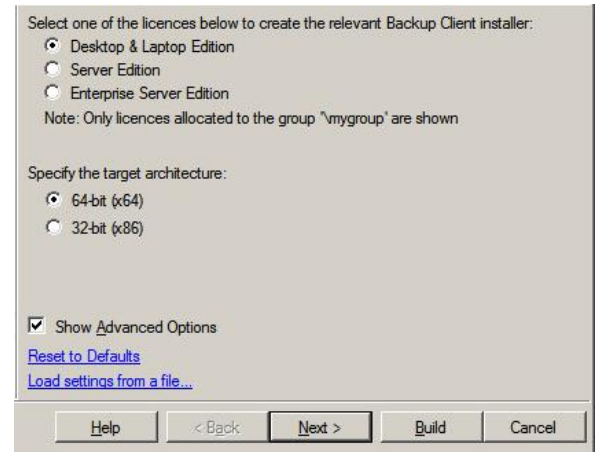
Step 1 of 11: Start the Deployment Wizard and specify the initial settings

1. Select the type of Backup Client installer that you wish to create.
2. Select **64-bit** or **32-bit** as the target architecture.



Note: If you have access to multiple branded Backup Clients, you will be able to choose which brand to deploy during this step. The brands available depend on the brands that your Access User has been given access to. Admin users have full access to all brands.

If you have access to multiple Storage Platforms, the latest Backup Client version relevant to that Storage Platform will be used to create the deployment.



Warning: Please note the following and ensure that you configure the MSI installer for the correct architecture:

- 64-bit installers cannot run on 32-bit operating systems. However, 32-bit installers can run on 64-bit operating systems.
- System State and Exchange plug-ins can only function with 64-bit SE Backup Clients running on 64-bit operating systems.
- An available licence is required in order to create a corresponding Backup Client installer.

3. Select the **Show Advanced Options** check box if you wish to view the Deployment Wizard's advanced options.



Note:

- The **Reset to Defaults** option at the bottom of the Deployment Wizard will reset all settings currently populated to the default settings.
- **Load settings from a file...** enables you to load settings from a previously created deployment file (you have the option to save the settings in an xml file for future use in the final step of the Deployment Wizard).

4. Click **Next** to continue to the next step, or **Build** to start the build process.

Step 2 of 11: Specify the Backup Account and connection details

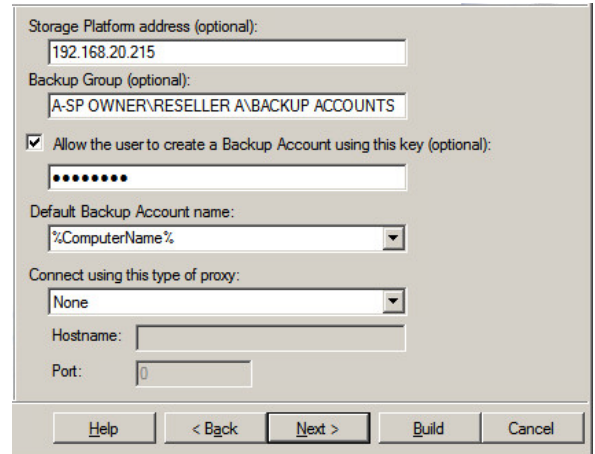
1. Specify the correct Storage Platform and Backup Group details.



Warning:

- Please ensure that you enter the correct settings, or the Backup Client will not be able to function correctly.
- If the AccountServer is bound to a port different from the default, ensure you specify the **Storage Platform address** with the port number appended e.g.:

192.168.20.215:223




Note: If you initiated the Deployment Wizard from within the Storage Platform Console, these entries will already be populated with the correct settings. If you leave these entries blank, the Backup Account Setup Wizard will prompt the user for the details.

2. If you wish to disable the creation of new Backup Accounts, deselect the **Allow the user to create a Backup Account using this key** check box. The Backup Client will then only allow reconnects to existing Backup Accounts available on the Storage Platform.



Note: The **Default Backup Account** name box allows you to specify whether the Backup Account name in the Backup Account Setup Wizard must be automatically populated with the computer name, user name, user domain, or any combination of the standard parameters, e.g. %UserDomain%-%UserName%. You can also specify the variable for the default Backup Account name. The Deployment Wizard supports all variables that can be found by typing "set" in the Command Prompt.

3. If necessary, specify proxy settings in the boxes provided.
4. Click **Next** to continue to the next step, or **Build** to start the build process.

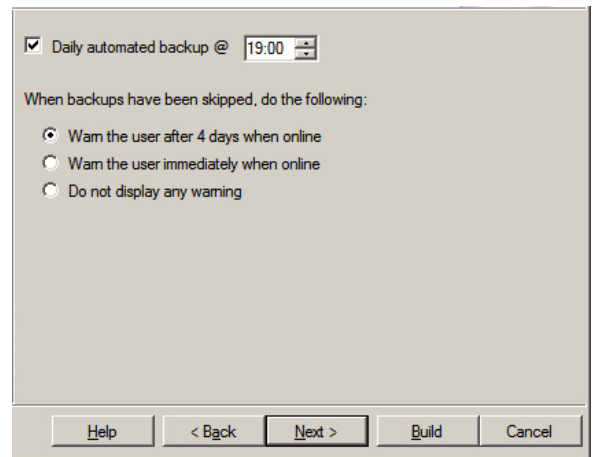
Step 3 of 11: Configure backup scheduling

1. Specify a time for the daily automated backup. The default backup time is 19h00.



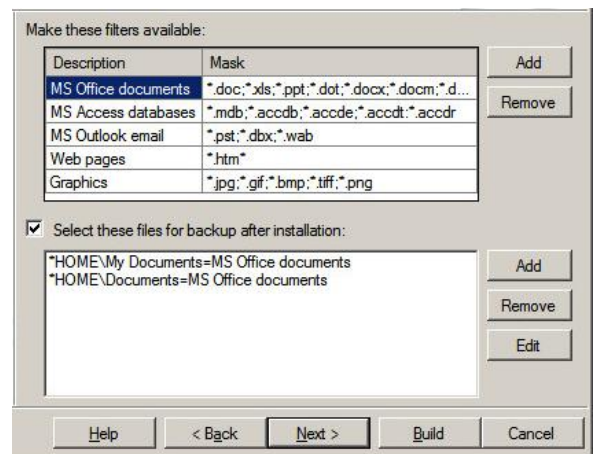
Warning: Automatic backups can be disabled, but the end-user will then have to manually initiate backups which is not recommended.

2. Desktop & Laptop Edition Backup Clients can warn the user if backups were skipped by displaying a popup message whenever a network connection is detected. Select what action the Backup Client should take if a backup is skipped. Warn the user after 4 days when online is the default selection, to accommodate offline periods that typically occur during weekends.
3. Click **Next** to continue to the next step, or **Build** to start the build process.



Step 4 of 11: Define default selection filters

1. Use the **Add** and **Remove** buttons to specify the default selection filters that will be available in the Backup Client.
2. Enable the **Select these files for backup after installation** check box to apply some of the abovementioned filters when the Backup Client is opened for the first time. Use the **Add**, **Remove** and **Edit** buttons to configure the filter types that you want to include in the Backup Client's initial backup selection.




Note: *HOME\ refers to the logged in user's home folder.

3. Click **Next** to continue to the next step, or **Build** to start the build process.

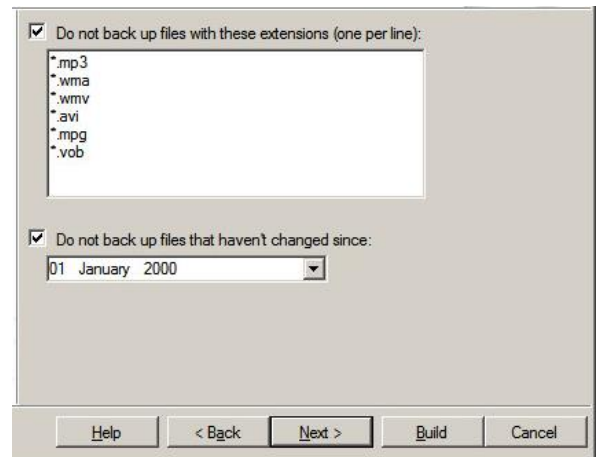
Step 5 of 11: Specify exclusions

1. If you wish to stop certain file types from being backed up, select the **Do not backup files with these extensions (one per line)** check box and type the file extensions to be excluded in the box provided.



Note: Type each extension on a new line in the format: *.file.

2. To prevent the backup of files that have not been modified recently, select the **Do not backup files that haven't changed since** check box, and then select a date.



3. Click **Next** to continue to the next step, or **Build** to start the build process.



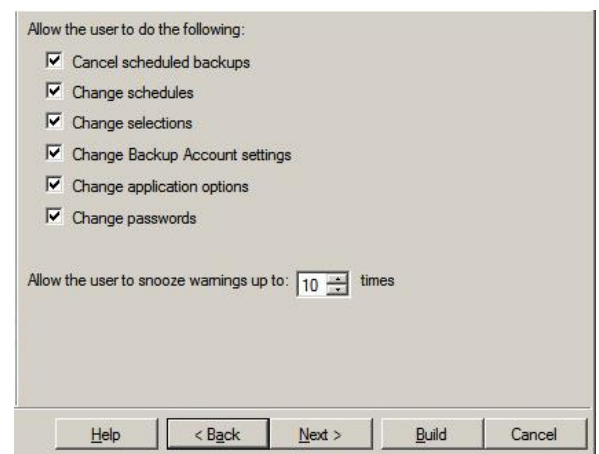
Note: The exclusions specified above are marked in the Backup Client as **Excluded by Administrator** and take priority over the backup selection made by the end-user.

Step 6 of 11: Specify restrictions (DL advanced option)



Note: This step is only available when deploying a DL Backup Client.

1. Modify users' ability to cancel or change scheduled backups, change backup selections, change Backup Account settings, change application options and/or change passwords by selecting or deselecting the respective check boxes.
2. Click **Next** to continue to the next step, or **Build** to start the build process.

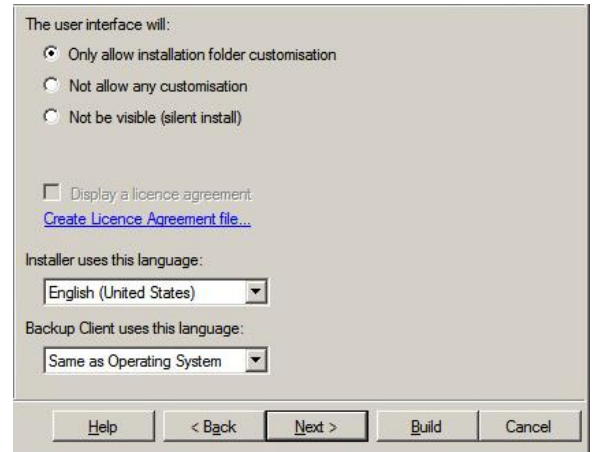


Step 7 of 11: Specify restrictions (Advanced option)

1. Modify the behaviour of the MSI installer by selecting the level of customisation that the end-user will be allowed to perform during the install process.



Note: If you select **Not be visible**, you must have administrator privileges when running the installer or the installation will fail. This option causes the installation to run in the background. (See “Step 9 of 11: Configure custom Backup Client settings” for instructions on configuring the MSI properties so that the Backup Account name, password and encryption key are installed without user input.)



2. Click **Create Licence Agreement file...** to create a licence agreement. After you have created a licence agreement, you can choose to display it in the installer wizard by selecting the **Display a licence agreement** check box.



Note: If the Deployment Wizard detects a *Licence.rtf* file in *C:\Users\{User}\AppData\Roaming\Deployment*, the **Create Licence Agreement file...** link changes to **Edit Licence Agreement file...**

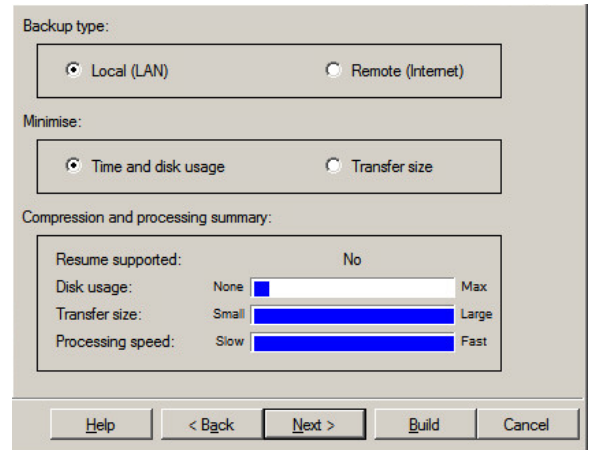
3. Click **Next** to continue to the next step, or **Build** to start the build process.

Step 8 of 11: Set environment optimisation (SE advanced option)



Note: This step is only available when deploying a SE Backup Client.

1. Select **Local (LAN)** or **Remote (Internet)** as the backup type. The default is Local (LAN). This option determines whether the Backup Client will be optimised to use Streaming Backup.
2. You can choose to minimise backup time and disk usage, or transfer size. The default is Time and disk usage.
3. Click **Next** to continue to the next step, or **Build** to start the build process.




Note: The compression and processing summary displays the outcome of the choices you have made, with regards to support for resuming interrupted backups, disk usage, transfer size and processing time. The default selections optimise the Backup Client for backing up over a local network with network traffic not being an issue.

Step 9 of 11: Configure custom Backup Client settings (Advanced option)



Warning: This step contains advanced features that could corrupt the functioning of the Backup Client. Please consult your Backup Administrator before configuring these settings.

1. Specify any custom Backup Client settings that should be stored in the **a5backup.properties** file.

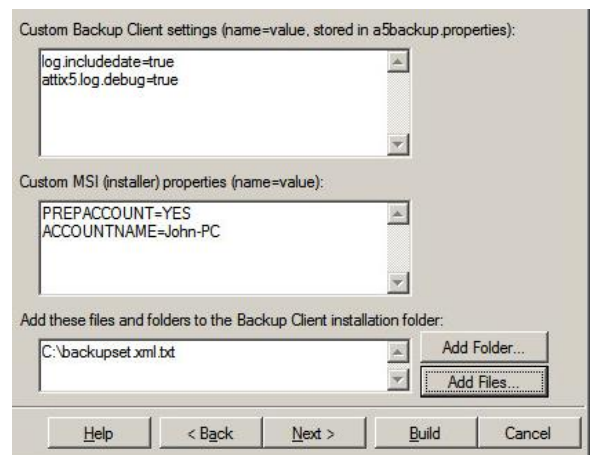


Note: Settings specified here will not override existing settings if you manually update the Backup Client using this deployment. The settings will only take effect if you perform a clean install or if the setting is new to the version being deployed.



Example: To pre-configure the Backup Client so that backup and restore logs include the date, and the service log includes debug messages, type the following in the **Custom Backup Client settings...** box:

```
Log.includedate=true
attix5.Log.debug=true
```



2. In the **Custom MSI (installer) properties...** box, if you wish to add properties to the MSI file, type each property on a new line.



Note: The encryption key must be 8 characters or more.



Example: To pre-configure the MSI properties so that the Backup Client installs with the AccountServer IP: "192.168.20.215", the Backup Account name: "John-PC", the Backup Account password: "password", the Backup Group create key: "pas", the encryption key: "password" and the Backup Group: "A-SP OWNER\RESELLER A\BACKUP ACCOUNTS", type the following in the **Add these properties...** box:

```
PREPACCOUNT=YES  
SERVERIP=192.168.20.215  
ACCOUNTNAME=John-PC  
ACCOUNTPASSWORD=password  
CREATEKEY=pas  
ACCOUNTKEY=password  
GROUP=A-SP OWNER\RESELLER A\BACKUP ACCOUNTS
```

3. To specify additional folders or files to be added to the MSI file when built, e.g. the **backupset.xml** file with a default selection, click the **Add Folder** or **Add Files** button, navigate to and select the items to add, and then click **Open**.



Warning: Files and folders added in this step will overwrite any existing files found in the installer. Please be careful when using this feature as you may corrupt the Backup Client when replacing files.



Note:

- To add a folder to the Backup Client you must include its parent folder in this step.
- The contents of the selected folders are added to the installer.

4. Click **Next** to continue to the next step, or **Build** to start the build process.

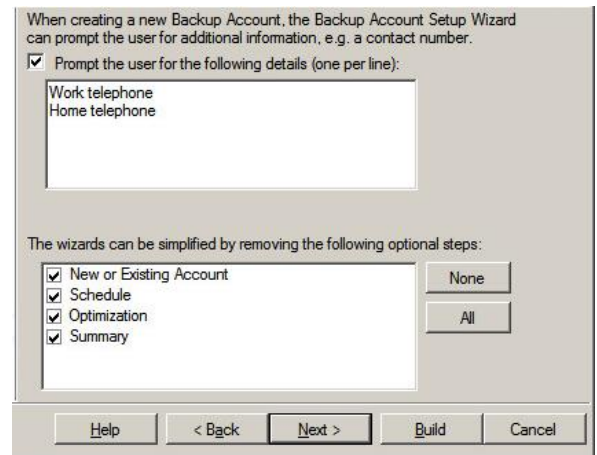
Step 10 of 11: Configure Backup Client wizards (Advanced option)

1. If you wish to specify any mandatory custom fields in a separate step in the Backup Account Setup Wizard, select the **Prompt the user for the following details (one per line)** check box and then type the names of the fields in the box provided, listing them on separate lines.



Note: The supplied values are stored in the AccountServer database and can be viewed in the SP Console.

2. To simplify the Backup Client wizards for the end user, you can remove optional steps from them.
3. Click **Next** to continue to the next step, or **Build** to start the build process.



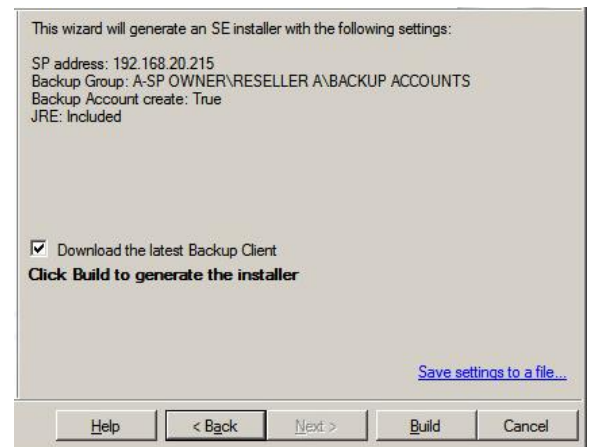
Step 11 of 11: Build

1. Select whether to download the latest Backup Client from the Storage Platform.



Note: If this check box is not selected, the Deployment Wizard will use the Backup Client that it currently has. If it does not have a Backup Client, the wizard will download it from the Storage Platform regardless of the check box selection.

2. Confirm all the settings and then click **Build** to start the build process.
3. The Deployment Wizard will prompt you for the folder where the created MSI file must be stored. Your Desktop is the default location.
4. Once the MSI has been built, you can choose to open the Deployment folder on exit from the Deployment Wizard.
5. Click **Close**. The Deployment Wizard will save the current deployment settings before closing. The next time you open the Deployment Wizard, your settings will be automatically populated.



MSI Installer

The Backup Pro MSI installer enables you to remotely deploy Server Edition and Desktop & Laptop Edition Backup Clients using your preferred desktop management solution, e.g. Microsoft SMS. Use the Deployment

Wizard to include the AccountServer and Group settings in the MSI. With these settings populated, you can specify that the Backup Account must be created automatically during the install process.



Warning: You are advised to install a Group Certificate to the specific Groups as the encryption keys are random. Without this certificate you will not be able to connect to a Backup Account to restore any data, should the computer crash. The password can be changed in the Storage Platform Console.

Use the following command to run the installer (ensure that you have administrator privileges):

```
./BackupClientFileName.msi PREPACCOUNT=Yes
```

If you do not wish to use the preconfigured AccountServer and Backup Group details, you can use additional parameters to override the default settings configured:

- **SERVERIP** – IP address of the AccountServer
- **ACCOUNTNAME** – Backup Account name



Note: Backup Pro will use the Windows Computer Name as the Backup Account name by default.

- **ACCOUNTPASSWORD** – Backup Account password.



Note: If you do not specify an Account password, a random one will be used.

- **CREATEKEY** – Backup Group Create Key
- **ACCOUNTKEY** – Backup Account encryption key.



Note: If you do not specify an encryption key, a random one will be used.

- **GROUP** – Backup Group name



Tip: You can use Environment Variables to supply the parameters listed above.

- Type “set” in the command prompt to view a list of variables you can use.
- You can use these properties as fixed values or use templates based on the variables, for example:

```
./BackupClientFileName.msi PREPACCOUNT=Yes ACCOUNTPASSWORD=%USERDOMAIN%
```

- You can also use a combination of variables, for example:

```
./BackupClientFileName.msi PREPACCOUNT=Yes ACCOUNTPASSWORD=%USERDOMAIN%\%USERNAME%
```

The standard MSI parameters are also available. A few examples are:

- /help – Help information
- /quiet – Quiet mode, no user interaction
- /passive – Unattended mode, progress bar only



Example: To deploy the Server Edition Backup Client, run the following with administrator privileges:

```
... \A5BPSE5.0.msi PREPACCOUNT=YES SERVERIP=SERVERNAME GROUP=COLLECTION01\GROUP01  
CREATEKEY=KEY021 /passive /quiet
```

7. Storage Platform Configuration

Depending on your backup requirements, you can configure the Storage Platform to consist of only the essential components:

- An AccountServer
- At least one StorageServer

Or you can include additional components:

- A Slave AccountServer
- Additional StorageServers
- MirrorServers

The Storage Platform Configuration view in the SP Console enables you to manage all these components.

Storage Platform Configuration view

In the Storage Platform Configuration view, you can administer the following Storage Platform components:

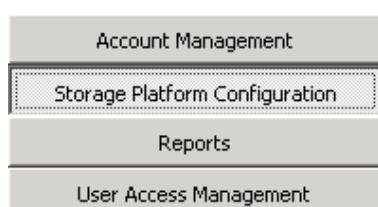
- AccountServersSlave AccountServers
- Storage Pools
- StorageServers
- MirrorServers



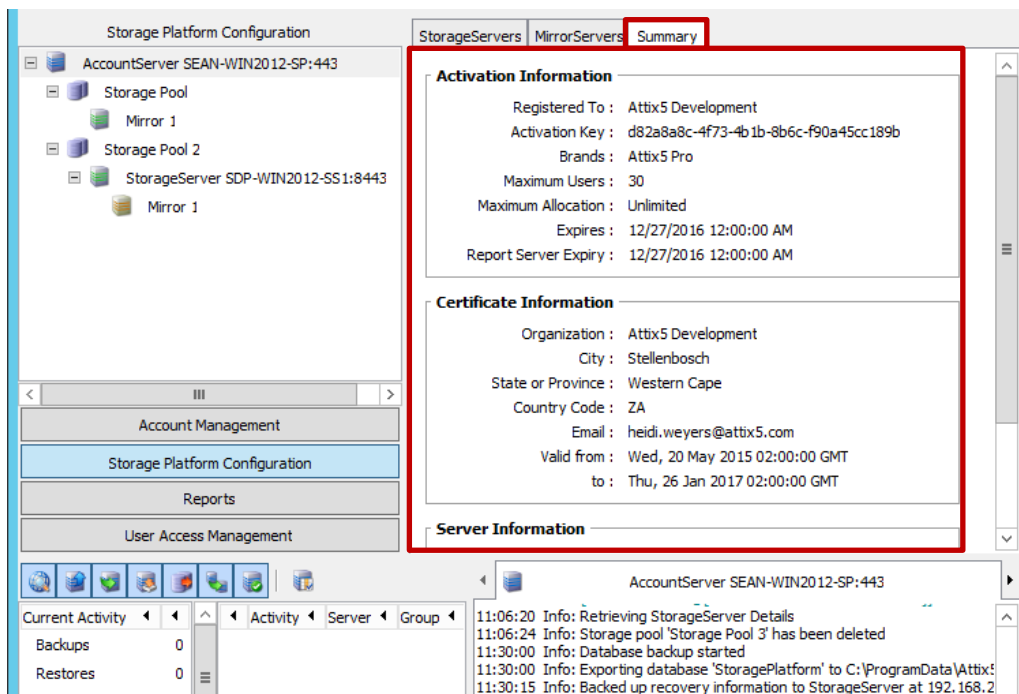
Note: Please bear in mind that one Storage Platform (i.e. an AccountServer with its StorageServer/s and MirrorServer/s) is managed at a time - if you administer multiple Storage Platforms, please add them using the **Connections** menu. For more information, see *Connecting to a Storage Platform in Chapter 4, "Connection"*.

To access the Storage Platform Configuration view:

1. Open the SP Console and connect to the Storage Platform. [See Chapter 5, "Graphical User Interface (GUI)".]



2. In the view selector on the left of the SP Console, click the **Storage Platform Configuration** button.








The AccountServer **Summary** tab displays by default. This tab provides you with an overview of activation, certificate and server information and displays a unique *Activation Key*.



Note: If you need to reinstall the Storage Platform, e.g. during a disaster recovery process, the Activation Key will enable you to install and start the Storage Platform services without any correspondence with Redstor, as was previously required with the **activation.txt** file. Please ensure that you store this key in a safe place, as it is your reference on the LicenceServer.

Storage Platform Configuration view icon legend

Icon	Location	Description
	Storage Platform Configuration tree	AccountServer node
	Storage Platform Configuration tree	Storage node
	Storage Platform Configuration tree	StorageServer node
	Storage Platform Configuration tree	MirrorServer node
	Storage Platform Configuration tree	Slave AccountServer node

When a StorageServer node is selected, the following columns are visible in the StorageServers tab:

- **Address** – IP address of the StorageServer.
- **Version** – Version of the StorageServer.

- **Online** – The StorageServer is either online or offline.
- **Disk Size** – The storage capacity of the StorageServer's data volume.
- **Free Space** – The amount of free space on the StorageServer's data volume.
- **Disk Usage** – The percentage of the StorageServer's capacity being utilised.
- **On Disk** – The amount of disk space used to store all backups for all Backup Accounts on the StorageServer (excluding index files).
- **Data Protected (last backup)** – The amount of uncompressed data being protected by the StorageServer for the last backup of all the Backup Accounts. This value could be larger than the **On Disk** value due to various reasons, including: SIS and patching.
- **Data Protected (all backups)** – Sum of uncompressed data protected over all backups for all Backup Accounts.
- **Saving** – Saving due to compression, patching, local de-duplication (within a Backup Account), and global de-duplication (across all Backup Accounts).
- **Saving %** – Saving as a percentage of Data Protected (all backups).
- **Server Locked** – The StorageServer is either locked or unlocked. New Accounts cannot be created on a locked StorageServer.

To view server information:

In the Storage Platform Configuration tree, click the server name. A summary of the certificate and server information displays on the **Summary** tab.



Note: You can access any configurable options by clicking the **Configure** button on the toolbar. Alternatively, right-click the server name and then click **Configure**.

LicenceServer

The AccountServer periodically connects to the global LicenceServer to receive available licence updates, as requested. It will automatically download updated certificates, expiry dates, and Backup Client and plug-in licence updates as soon as they are issued by your software provider and the Redstor team.

For more information on the AccountServer's activation information, see *Viewing activation information* in Chapter 7, "Storage Platform Configuration".

Monitoring servers

The servers in a Storage Platform handle many tasks, including:

- Backups

- Restores
- Roll-ups
- Mirroring (a method of backing up the backups)
- Account moves
- Integrity checks

Viewing a server's activity

Sometimes, you may wish to see what is happening on a server at a particular point or what is queued to happen in the near future. You can do this in the Storage Platform Configuration view of the console.

To view the tasks being performed on a server:

1. Click the **Storage Platform Configuration** button in the view selector.
2. Expand the AccountServer node.
3. Navigate to the server you wish to monitor (e.g. **Storage > StorageServer123**).
4. Ensure that the **Activity** button is depressed in the main toolbar:



5. In the Activity area, you'll be able to see all current and queued tasks for the selected server:

Current Activity							
	Activity	Server	Group	Account	Progress	Description	
Backups	1	Mirror	QAHIVEM51:8443	Hive\Group2(admin@192.168.20.126)	FED1464B-WHISKEY	91 %	Receiving 118.89 MB from StorageServer at 192.168.20.126
Restores	0	Mirror	QAHive551:8443	Hive\Group2	FED1464B-WHISKEY	91 %	Account 5 of 16: Sending 142,012 files; 40,286 remain
Roll-ups	0	Backup	QAHive551:8443	Hive\Group3	FEDORA1432-MUFASA		Receiving pre-index file 80,509 (17.01 MB(unknown)) at
Mirrors	2	Maintenance	QAHive551:8443	PREPACCOUNT	FEDORA1464		Queued, attempt 13
Account Moves	0	Maintenance	QAHive551:8443	PREPACCOUNT	GAVIN-BEAST-PC		Queued, attempt 13
Integrity Checks	0	Maintenance	QAHive551:8443	TESTER\Gavin	GAVIN-BEAST-PC		Queued, attempt 13
Other	18	Maintenance	QAHive551:8443	TESTER\Patrick	ASD@@		Queued, attempt 13
		Maintenance	QAHive551:8443	TESTER\Patrick	PATRICK-PC		Queued, attempt 13
		Maintenance	QAHive551:8443	Hive\Group1	MASTERBLASTER64		Queued, attempt 13
		Maintenance	QAHive551:8443	TESTER\Patrick	200832STD5R2		Queued, attempt 13

Cancelling a task

You can cancel a task in progress or one that is queued by right-clicking the task entry in the Activity area and then clicking **Cancel Task** in the shortcut menu that appears:

Activity	Server	Group	Acco
Mirror	QAHIVEM51:8443	Hive\Group2(admin@192.168.20.126)	FED
Mirror	QAHive551:8443	Hive\Group2	FED
Restore	QAHive551:8443	Hive\Group1	Fed








Cancel Task

Click the **Show All** button if all activities are not displayed.

Filter activities to only display a particular Backup Group(s) – Use the **Filter by Group** button on the toolbar.

View/hide/filter activity stream

You can view/hide information by selecting or deselecting the Activity buttons:

Activity Area Toolbar Button	Description
	Show all activities.
	Show Backup activity.
	Show Restore activity.
	Show Roll-up activity.
	Show Mirroring activity.
	Show Account move activity.
	Show Integrity Check activity.

Monitor logs

Another way to monitor server tasks is to view the server logs. These provide you with more detail than the Activity area.

To access a server's log messages:

1. Ensure that the **Storage Platform Configuration** button is selected in the view selector.
2. Expand the AccountServer node. (To monitor StorageServers, also expand the Storage Pool node.)
3. Navigate to the server you wish to monitor.
4. Ensure that the **Diagnostics** button is depressed in the main toolbar:

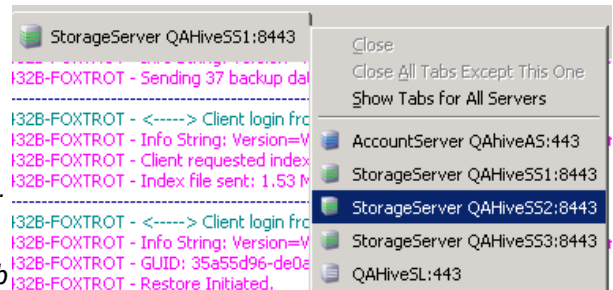


- In the Diagnostics area, you'll be able to see all of the selected servers' log messages in a tab dedicated to each server:



Tip:

- If you select to view another server's log messages, it will open a new tab for that server in the Diagnostics area but the previously viewed tab will still be available.
- To open/close tabs from within the Diagnostics area: Right-click one of the tab headings and select the server you wish to monitor:

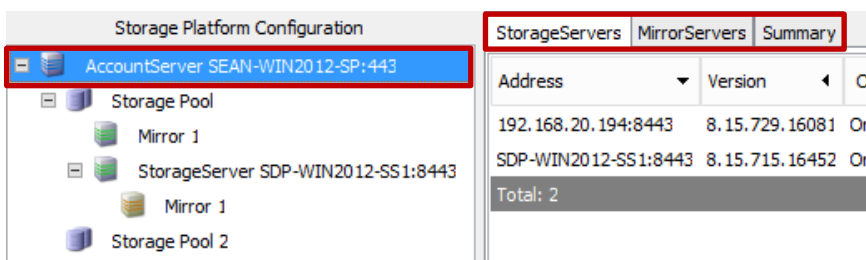


AccountServer

The AccountServer (AS) is used to manage Backup Groups and to administer individual Backup Account settings. It also authenticates Accounts for the backup and restore processes, and controls load balancing when multiple StorageServers are used. However, ESE Backup Accounts connect directly to their respective StorageServers for authentication – this prevents the AS's performance from being affected by peak-time backup requests.

The AccountServer uses port 443 for all incoming connections unless configured otherwise during installation.

The AccountServer node in the Storage Platform Configuration tree displays an overview of the Storage Platform, including a summary of the AS and any StorageServers and MirrorServers linked to the AS.



You can perform the following actions on the AccountServer using the SP Console:

- Configure the server
- Rename the server
- Add a Storage Pool
- Add a Slave AccountServer
- Back up/Restore the AccountServer database
- Update licence information (Advanced)

- View activation information (Advanced)
- Change master password (Advanced)
- Restart the AccountServer service (Advanced)
- Scan for new Servers (Advanced)

All of the actions listed above are initiated using the AccountServer actions menu.

To access the AccountServer actions menu:

1. Open the Storage Platform Console.
2. Click the **Storage Platform Configuration** button in the view selector.
3. Right-click the AccountServer name in the Storage Platform Configuration tree to view the options available in the AccountServer. Alternatively, click the **AccountServer** menu on the menu bar.

For detailed descriptions of the corresponding menu items in the toolbar, see *Context-sensitive menus and toolbar buttons* in Chapter 5, “Graphical User Interface (GUI)”.

Configuring an AccountServer

You can configure the AccountServer using the **Configure AccountServer** dialog box.

To access the **Configure AccountServer** dialog:

1. Ensure that the AccountServer name is selected in the Storage Platform Configuration tree.
2. Click the **Configure** button on the toolbar. Alternatively, right-click the AccountServer name in the Storage Platform Configuration tree and then click **Configure**.
3. In the **Configure AccountServer** dialog box that appears, you can click any of the available tabs to view or modify the settings. For more information, see below.

Configure AccountServer dialog box

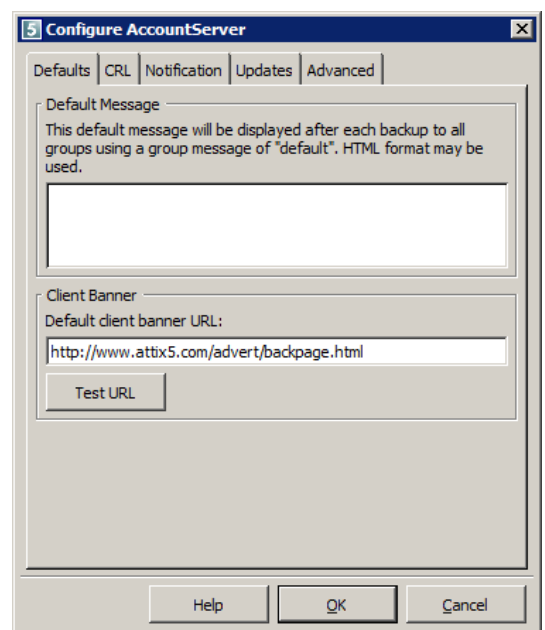
Defaults tab

Default Message section

You can use the Default Message area to specify a message to be displayed on the Desktop & Laptop Edition Backup Client summary screen after each backup. All Backup Groups with “Default” set as their Group Message will use this message.

Default Client section

You can use the **Default Client Banner URL** box to display an advert or banner (dimensions: 468 x 60 pixels)



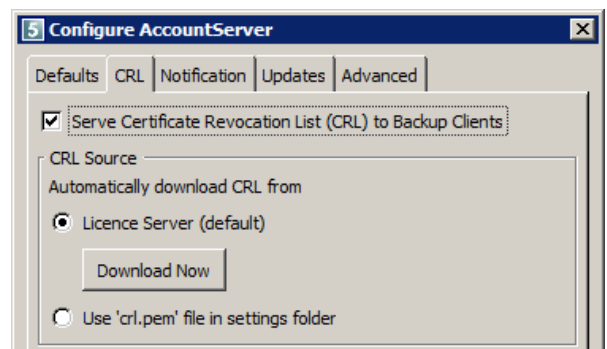
in the Client after each backup. Specify the URL where the banner will be hosted. This URL will be sent to all groups with "Default" specified as their Client Banner URL. The Client Banner URL should point to an HTML file with the following format:

```
<HTML>
<CENTER>
<A HREF="http://Link here">
<IMG SRC="Image here" BORDER=0 WIDTH=468 HEIGHT=60></A>
</CENTER>
</HTML>
```

CRL tab

You can choose whether the AccountServer should serve a CRL (Certificate Revocation List) by selecting or clearing the **Serve Certificate Revocation List (CRL) to Backup Clients** box.

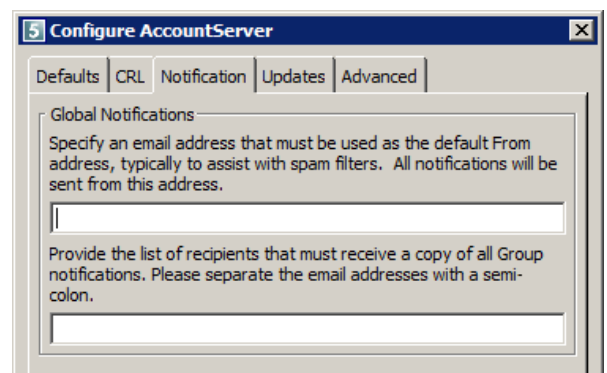
If a CRL is to be served, you can download the list from the LicenceServer or use the **crl.pem** file in the settings folder.



Notification tab

The AccountServer can send system wide notifications to a list of specified email addresses. Backup Group Over Limit warnings, Mirror Done and StorageServer Down notification messages will be sent using this email address.

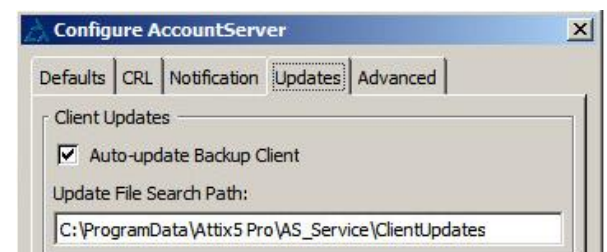
You can also specify a global "From" email address for all SP notifications in this section (this assists with spam filters).



Updates tab

Client Updates section

You can choose to enable auto-updates for the Backup Client. If you enable this option, Backup Clients will be updated to the latest software version automatically during the next backup. Specify the location of the Backup Client update pack in the **Update File Search Path** box (the default location is displayed).



Advanced tab

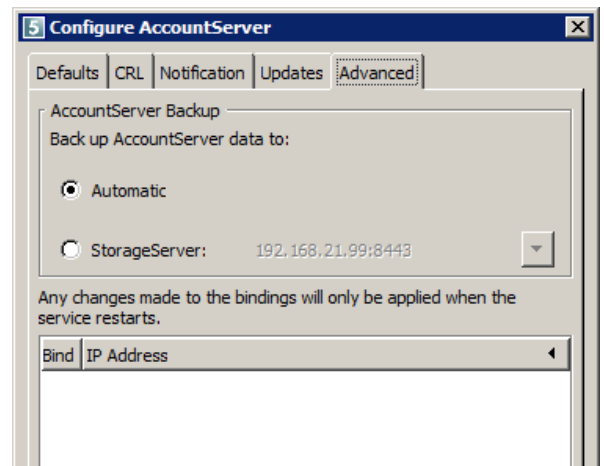
You can use this tab to configure the AccountServer database backup settings.

AccountServer Backup

In the AccountServer Backup area, you can select whether the SP Console should back up AccountServer data to the default backup server or to another StorageServer.

Bindings

In the Bindings area, you can select which IP address the AccountServer will bind to.

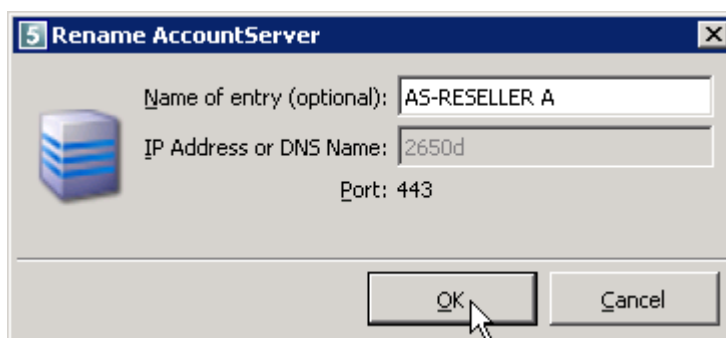


Note: This option will only be enabled if more than one IP address is available. Restart the service to apply any changes.

Renaming an AccountServer

To rename an AccountServer:

1. In the Storage Platform Configuration tree, click the AccountServer name.
2. On the **AccountServer** menu, click **Rename**. Alternatively, right-click the AccountServer name in the tree and then click **Rename** on the shortcut menu.
3. In the **Rename AccountServer** dialog box that appears, type a new display name in the **Name of entry** box, and then click **OK**.



Adding a Storage Pool

Refer to the *Storage Pools* section later in this chapter for more information.

Adding a Slave AccountServer

You can install an additional AccountServer to act as a slave to the master AccountServer and then add a connection to it in the SP Console. For more information, see “AccountServer” later in this chapter.

For more information on installing a Slave AccountServer, please refer to the Storage Platform User Manual, and then see “Slave AccountServer” later in this chapter.



Note: The Slave AccountServer option must be enabled on the LicenceServer with the correct Activation Key.

Backing up/restoring an AccountServer database

You can back up the AccountServer database manually or schedule automatic backups at particular times and you can restore the database at any time. See below for details.



Note: By default, the ReportServer database is not backed up with the AccountServer database. For information on how to back up the ReportServer database with the AS database, see *Backing up a ReportServer database in Chapter 8, “Reports”*.

Automated backups

The AccountServer database, which contains the Backup Group and User tables, is automatically backed up to the StorageServer every 60 minutes. This automated process enables you to restore a database not older than 60 minutes from the StorageServer, should the AccountServer database fail for any reason. Activity is logged in the AccountServer and StorageServer Diagnostics areas. The AccountServer logs the message: “Backing up database to StorageServerIPAddress” when the database backup starts and “Database backed up to StorageServerIPAddress” when the process is complete. After the StorageServer has received the database, it will log the message: “Backup database received”.



Tip: It is advisable to mirror the StorageServer to an offsite location, especially if the AccountServer and StorageServers are running on the same machine, to ensure that it can be restored if the Storage Platform fails. The AccountServer database is part of the data that is mirrored to the remote MirrorServer. In the case of an AccountServer and StorageServer failure, the StorageServer will have to be recovered from the MirrorServer before you can restore the AccountServer database from the StorageServer.

Manual backups

Although AccountServer database backups are run automatically every 60 minutes, you can initiate manual backups at any point in time.

To manually initiate the AccountServer backup procedure:

1. Click the AccountServer name in the Storage Platform Configuration tree.

2. Click the **Backup DB** button on the main toolbar. Alternatively, right-click the AccountServer name and then click **Backup Database**.
3. In the confirmation dialog box that appears, click **Yes**. The Diagnostics area will log the progress of the backup, ending with: "Info: Backed up recovery information to StorageServer at <IP address>" if successful.

Database restores

To restore the AccountServer database:

1. In the Storage Platform Configuration tree, click the AccountServer name.
2. Click the **Restore DB** button on the toolbar. Alternatively, right-click the AccountServer name and then click **Restore Database**.



Note: All existing data in the AccountServer database will be overwritten by the restore. The backed up database will be recovered from the StorageServer. Thereafter, the AccountServer will restart itself to refresh all settings.

Advanced actions

You can perform advanced actions from the menu bar or by right-clicking the **AccountServer** node in the Storage Platform Configuration tree, pointing to **Advanced** in the shortcut menu, and then clicking an action menu item.

Updating licence information

To update the AccountServer's licence information:

1. In the Storage Platform Configuration tree, click the **AccountServer** name.
2. On the **AccountServer** menu, point to **Advanced**, and then click **Update Licence Info**. Alternatively, right-click the AccountServer name, point to **Advanced**, and then click **Update Licence Info**.

The SP Console will connect to the LicenceServer and retrieve the latest activation data. The following message will be logged in the AccountServer's Diagnostics area:

15:06:19 Info: Activation data received

The Activation Information area on the AccountServer's **Summary** tab will also be updated.

Activation Information	
Registered To :	Attix5 Development
Activation Key :	49c-2439-52a6-4664-997d-185f34e255fc
Brands :	Attix5 Pro
Maximum Users :	2147483645
Maximum Allocation :	Unlimited
Expires :	11/14/2020 12:00:00 AM
Report Server Expiry :	11/14/2020 12:00:00 AM

Viewing activation information

To view activation information:

In the Storage Platform Configuration view, click the **Activation** button on the main toolbar.

An online page displaying the LicenceServer activation information appears.



Plug-in	Licensed	Allocated To Groups	Used By Accounts	Registered	Evaluation	Evaluation >30 Days
Desktop and Laptop	50000	142	4	4	0	0



Note: Only people with the unique Activation Key will be able to view this page. It includes your details, as well as your reseller, licence and configuration details.

Changing the Master password

To change the Master password:

1. In the Storage Platform Configuration tree, click the **AccountServer** name.
2. On the **AccountServer** menu, point to **Advanced**, and then click **Change Master Password**. Alternatively, right-click the AccountServer name, point to **Advanced**, and then click **Change Master Password**.
3. In the **AccountServer Authentication** dialog box that appears, type the current password in the box provided.



Warning: The Master password is the password for the AccountServer, StorageServer(s) and MirrorServer(s). Please ensure that you wish to change the password for all these servers before you continue.

4. Click **OK**.
5. In the **Change Master Password** dialog box that appears, type a new password in the **Password** and **Re-type password** boxes.
6. Click **OK**.



Restarting the AccountServer service

To restart the AccountServer service:

1. In the Storage Platform Configuration tree, right-click the AccountServer name, point to **Advanced**, and then click **Restart Service**.
2. In the confirmation dialog box that appears, click **Yes**.

Scanning for new servers

Once a new server has been added to the Storage Platform (other than an AccountServer), it can be added to the Storage Platform Configuration view immediately instead of waiting the usual 10 minutes for the AccountServer to automatically perform the scan.

To scan for new servers:

In the Storage Platform Configuration tree, right-click the AccountServer name, point to **Advanced**, and then click **Scan for new Servers**. New servers will be updated in the Console view.

Slave AccountServer

The AccountServer database information is periodically sent to the Slave AccountServer and a copy is made. A Backup Client will always try to connect to the master AccountServer initially, but in the event of the master being unavailable, it will connect to the slave for authentication.

You can install a Slave AccountServer using the Storage Platform Installation Wizard (for more information, please refer to the Storage Platform User Manual).

Using the SP Console, you can connect to and perform the following Slave AccountServer actions:

- Add/Remove the server
- Configure the server
- Rename the server
- Restart the Slave AccountServer Service

Adding and removing Slave AccountServers

To add to a Slave AccountServer:

1. Install the Slave AccountServer using the Storage Platform Installation Wizard. (For more information, please refer to the Storage Platform User Manual.)
2. In the Storage Platform Configuration tree, click the AccountServer name.
3. On the **AccountServer** menu, click **Add Slave AccountServer**. Alternatively, right-click the AccountServer name and then click **Add Slave AccountServer** on the shortcut menu.
4. In the **Add Slave AccountServer** dialog box that appears, type the server details in the boxes provided.
5. In the **One Time Password** box, type the password provided to you during the server installation.



Tip: Should you forget the OTP provided during installation, you can access it in the **Settings.xml** file located in %appdata%\<product folder>\SS_Service\.

It is the first 8 characters of the <ServerGuid> entry e.g.:

<ServerGuid>83470821-caec-482c...

6. Click **OK**.

A Slave AccountServer node will display beneath the master AccountServer node in the Storage Platform Configuration tree. You can now configure the Slave AccountServer as described in “Configuring Slave AccountServers” later in this chapter.

To remove a Slave AccountServer:

1. In the Storage Platform Configuration tree, select the Slave AccountServer name.

2. On the **Slave AccountServer** menu, click **Delete**. Alternatively, right-click the Slave AccountServer name and then click **Delete** on the shortcut menu.
3. In the confirmation dialog box that appears, click **OK**.

The server will be removed from the Storage Platform.

Configuring a Slave AccountServer

You can configure the Slave AccountServer in the same manner as a normal AccountServer. For more information, see Configuring an AccountServer in Chapter 7, “Storage Platform Configuration”.

Renaming a Slave AccountServer

To rename a Slave AccountServer:

1. In the Storage Platform Configuration tree, click the Slave AccountServer name.
2. On the **Slave AccountServer** menu, click **Rename**. Alternatively, right-click the Slave AccountServer name and then click **Rename** on the shortcut menu.
3. In the **Rename Slave AccountServer** dialog box that appears, type a new display name in the **Name of entry** box.
4. Click **OK**.

Restarting the Slave AccountServer service

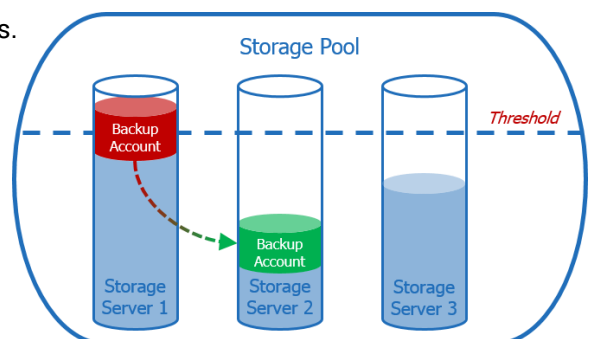
To restart the Slave AccountServer service:

1. In the Storage Platform Configuration tree, right-click the Slave AccountServer name, point to **Advanced**, and then click **Restart Service**.
2. In the confirmation dialog box that appears, click **Yes**.

Storage Pools

A Storage Pool is a grouping of one or more StorageServers. This grouping allows the disk usage of StorageServers to be managed automatically:

Backup Accounts are moved from the fullest StorageServer within a Pool to the emptiest one based on a threshold set for that Pool. This occurs only when the disk usage of a StorageServer exceeds the threshold.





Note: The AccountServer continually monitors each StorageServer's disk usage and will intelligently decide which Backup Accounts to move. A move will only occur if both StorageServers' disk usage will be below the threshold after the move.

Using the SP Console, you can perform the following Storage Pool actions:

- Add and configure a Storage Pool
- Remove a Storage Pool

Adding and configuring a Storage Pool

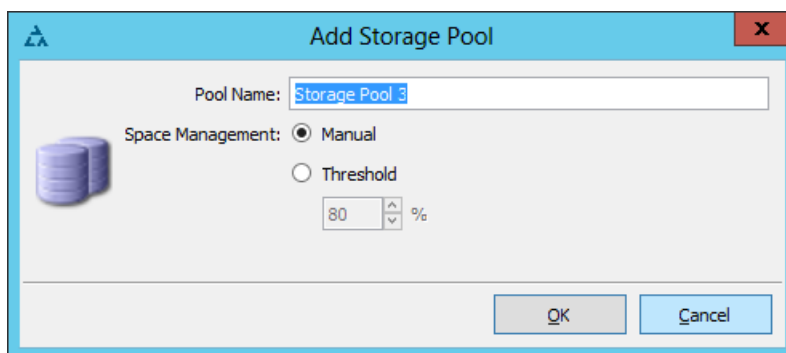
To add to a Storage Pool:

1. In the Storage Platform Configuration tree, click the AccountServer name.
2. On the **AccountServer** menu, click **Add Storage Pool**. Alternatively, right-click the AccountServer name and then click **Add Storage Pool** on the shortcut menu.
3. In the **Add Storage Pool** dialog box that appears, type the name box provided.



Tip: The number in the **Pool Name** is incremented automatically. A Storage Pool name must be unique.

4. Keep the **Manual** option selected when merely grouping StorageServers into Pools without any threshold management. Proceed to Step 7.
5. To enable threshold management, enable the **Threshold** option.



6. Set the value of the threshold. This is a percentage of the total disk space (at volume level) on which each StorageServer resides.
7. Click **OK**.

StorageServers will now be monitored for their capacity and the Backup Accounts will be moved automatically when the threshold is reached (AccountServer logs are also updated).

In addition, the SP Console will notify the Backup Administrator daily by email when:

- The thresholds of all StorageServers within a Pool have been reached;
- If no StorageServers can accommodate an Account being moved to it without exceeding the threshold.



Note:

- *No other Backup Account settings are affected when the Account is moved due to the Storage Pool threshold.*
- *Moves that are in-progress are completed before new moves are started.*
- *Normal backup and restore procedures will not be interrupted while Backup Accounts are moved between StorageServers.*
- *As with normal Backup Account moves, when an Account has already been mirrored and is moved to a new StorageServer with mirroring, the Account will automatically be updated on the new MirrorServer.*



Warning:

- *Backup Accounts will not be moved automatically if some StorageServers within the same Pool have mirroring enabled and some disabled. A warning will also be logged in the AccountServer Diagnostics area. Thus all StorageServers within the same Pool must have mirroring either **enabled** or **disabled**.*
- *If a StorageServer within the Storage Pool is offline, Backup Accounts will not be moved even if the threshold has been reached.*



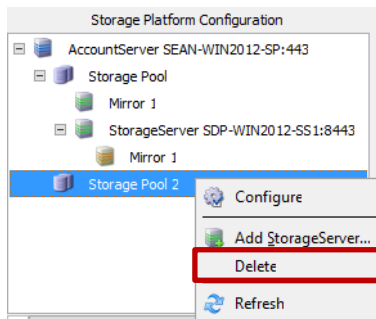
Tip: Refer to the following reports to help monitor Storage Pool capacity:

- *CapacitySummary (Enterprise report)*
- *StorageServer Disk Space Report – information is grouped by Storage Pool*
- *GroupSummary – Storage Pools are indicated for each Backup Group*

Removing a Storage Pool

To remove a Storage Pool from the Storage Platform:

1. In the Storage Platform Configuration tree, expand the relevant Storage Pool.
2. Ensure that no StorageServers exist in the current Storage Pool. To remove StorageServers, refer to *Changing a StorageServer's Storage Pool* in the "StorageServers" section later in Chapter 7, "Storage Platform Configuration".
3. On the **Storage Pool** menu, click **Delete**. Alternatively, right-click the name of the Storage Pool and then click **Delete** on the shortcut menu.



4. In the confirmation dialog box that appears, click **Yes**.

StorageServers

A StorageServer is a secure data storage system that manages the data between the Storage Platform and Backup Clients during backups and restores. It can also receive mirror data from other StorageServers when configured as a MirrorServer. All StorageServers are grouped into Storage Pools to manage the servers' data usage.

You can access an overview of all StorageServers' details by selecting the AccountServer or Storage Pool nodes in the Storage Platform Configuration tree.

Storage Platform Configuration

AccountServer SEAN-WIN2012-SP:443

Storage Pool

Mirror 1

StorageServer SDP-WIN2012-SS1:8443

Mirror 1

Storage Pool 2

StorageServers

MirrorServers

Summary

Address	Version	Online	Disk Size	Free Space	Disk Usage	On Disk	Data Protected (last backup)	Data (all)
192.168.20.194:8443	8.15.729.16081	Online	126,48 GB	110,90 GB	12 %	0,00 KB	0,00 KB	
SDP-WIN2012-SS1:8443	8.15.715.16452	Online	126,48 GB	112,43 GB	11 %	25,55 MB	5,83 KB	
Total: 2			252,97 GB	223,33 GB	11 %	25,55 MB	5,83 KB	

Storage Platform Configuration

AccountServer SEAN-WIN2012-SP:443

Storage Pool

Mirror 1

StorageServer SDP-WIN2012-SS1:8443

Mirror 1

Storage Pool 2

StorageServers

MirrorServers

Summary

Address	Version	Online	Disk Size	Free Space	Disk Usage	On Disk	Data Protected (last backup)	Data (all)
192.168.20.194:8443	8.15.729.16081	Online	126,48 GB	110,90 GB	12 %	0,00 KB	0,00 KB	
SDP-WIN2012-SS1:8443	8.15.715.16452	Online	126,48 GB	112,43 GB	11 %	25,55 MB	5,83 KB	
Total: 2			252,97 GB	223,33 GB	11 %	25,55 MB	5,83 KB	

You can perform the following actions on StorageServers using the SP Console:

- Add/remove/rename the server
- Change a StorageServer's Storage Pool
- Add a MirrorServer
- Enable/disable/configure mirroring
- Start/cancel the mirroring process
- Restore data from a MirrorServer

- Enable/disable HSM
- Bind the StorageServer to an IP address
- Change the StorageServer IP address (Advanced)
- Lock/unlock the server (Advanced)
- Start a StorageServer clean-up (Advanced)
- Restart the StorageServer Service (Advanced)
- Access often-used reports

All the above actions can be performed via the StorageServer main and shortcut menus.

To access the StorageServer main menu:

1. Open the Storage Platform Console.
2. Click the **Storage Platform Configuration** button in the view selector.
3. In the Storage Platform Configuration tree, expand the AccountServer node, then expand the relevant Storage Pool node.
4. Click the StorageServer name.
5. Open the **StorageServer** menu that appears on the menu bar.

For more information on each of the options available, see *Special menus and toolbar buttons* in Chapter 5, “Graphical User Interface (GUI)”.

To access the StorageServer shortcut menu:

1. Open the Storage Platform Console.
2. Click the **Storage Platform Configuration** button in the view selector.
3. In the Storage Platform Configuration tree, expand the AccountServer node, then expand the relevant Storage Pool node.
4. Navigate to and right-click on the StorageServer name.

For more information on each of the options available, see *Special menus and toolbar button* in Chapter 5, “Graphical User Interface (GUI)”.



Adding, removing and renaming StorageServers

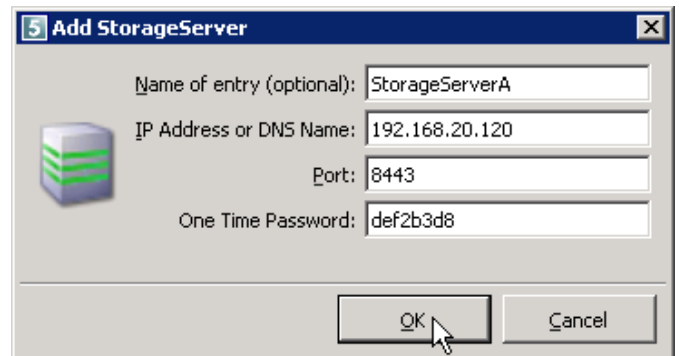
To add a StorageServer to your Storage Platform, you first install the Backup Pro StorageServer software onto a Windows Server on your network. Once installed, follow the instructions below to add the new StorageServer to the SP Console management interface. For more information on the StorageServer installation process, please refer to the *Storage Platform User Manual*.



Note: Before beginning a StorageServer installation, please ensure that you have the correct hardware and software configuration, as specified in the Storage Platform User Manual.

To add a StorageServer to the Storage Platform:

1. Right-click the  Storage Pool node in the Storage Platform Configuration tree.
2. Alternatively, click the  **Add SS** button on the toolbar.
3. In the **Add StorageServer** dialog box that appears, type the required StorageServer information in the boxes provided.
4. Click **OK** to save your changes.



The dialog box titled "5 Add StorageServer" contains the following fields:

- Name of entry (optional): StorageServerA
- IP Address or DNS Name: 192.168.20.120
- Port: 8443
- One Time Password: def2b3d8

At the bottom right are **OK** and **Cancel** buttons.



Note: You will have received the One Time Password during the server installation.



Tip: Should you forget the OTP provided during installation, you can access it in the **Settings.xml** file located in %appdata%\<product folder>\SS_Service\.

It is the first 8 characters of the <ServerGuid> entry e.g.:

<ServerGuid>83470821-caec-482c...

The new StorageServer will be added to the list of StorageServers in the Storage Platform Configuration tree.

To remove a StorageServer from the Storage Platform:

1. In the Storage Platform Configuration tree, click the name of the StorageServer.
2. On the **StorageServer** menu, click **Delete**. Alternatively, right-click the name of the StorageServer and then click **Delete** on the shortcut menu.
3. In the confirmation dialog box that appears, click **Yes**.

The StorageServer will be removed from the Storage Platform.

To rename a StorageServer:

1. In the Storage Platform Configuration tree, click the StorageServer name.
2. On the **StorageServer** menu, click **Rename**. Alternatively, right-click the StorageServer name and then click **Rename** on the shortcut menu.

3. In the **Rename StorageServer** dialog box that appears, type a new display name in the **Name of entry** box.
4. Click **OK**.

Changing StorageServer's Storage Pool

All StorageServers are grouped into a single Storage Pool by default. A larger number of StorageServers can be managed more effectively, especially with differing disk usage thresholds, by adding additional Storage Pools to the Storage Platform and adding StorageServers to their applicable Pools. (See "Storage Pools" earlier in this chapter on how to do this.)

Once new Pools have been added and configured, StorageServers can be added to them.



Tip: Remember that Storage Pools are merely logical groupings that help manage the distribution of backup data between StorageServers.



Warning: Backup Accounts will not be moved automatically if some StorageServers within the same Pool have different mirroring settings. A warning will also be logged in the AccountServer Diagnostics area. Thus all StorageServers within the same Pool must have mirroring either **enabled** or **disabled**.

To change the Storage Pool of a StorageServer:

1. In the Storage Platform Configuration tree, click the StorageServer name.
2. On the **StorageServer** menu, click **Change Storage Pool**. Alternatively, right-click the StorageServer name and then click **Change Storage Pool** on the shortcut menu.
3. In the **Change Storage Pool** dialog box that appears, select the appropriate Storage Pool from the New Storage Pool drop-down list.
4. Click **Change**.

The StorageServer will be moved in the Storage Platform Configuration tree and will be subject to the threshold settings of the new Pool.



Also take note of the **Storage Pool** column in the AccountServer view on the **StorageServers** tab.

Storage Platform Configuration

AccountServer SEAN-WIN2012-SP:443

Storage Pool

Mirror 1

StorageServer SDP-WIN2012-SS1:8443

Mirror 1

Storage Pool 2

StorageServers

MirrorServers

Summary

Size	Disk Usage	On Disk	Data Protected (last backup)	Data Protected (all backups)	Saving	Saving %	Server Locked	Storage Pool
90 GB	<div><div></div></div> 12 %	0,00 KB	0,00 KB	0,00 KB	0,00 KB	0,00%	FALSE	Storage Pool
43 GB	<div><div></div></div> 11 %	25,55 MB	5,83 KB	147,10 MB	121,54 MB	82,63%	FALSE	Storage Pool
33 GB	<div><div></div></div> 11 %	25,55 MB	5,83 KB	147,10 MB	121,54 MB			



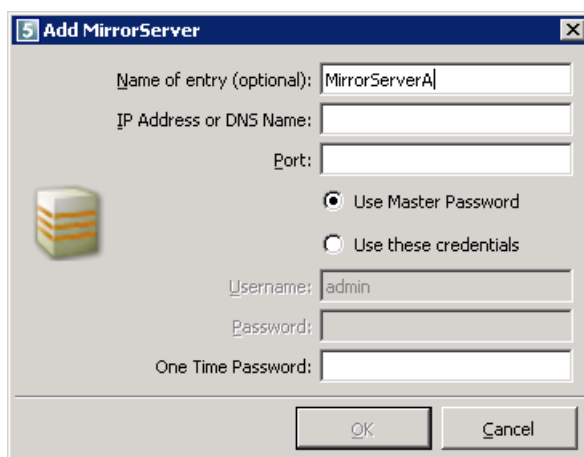
Note: If the last remaining StorageServer in a Storage Pool is moved to a different Pool, the Backup Groups allocated to the now empty Pool will be updated to reflect the move to the new Pool.

Managing mirroring

In a Backup Pro backup environment, you can back up StorageServer data to another server called a “MirrorServer”. For more information, see “MirrorServers” later in this chapter. Once you have a MirrorServer installed, you can use the SP Console to add it to your StorageServer and configure a mirror schedule.

To add a MirrorServer to a StorageServer:

1. Install a StorageServer that will be used as a MirrorServer using the Storage Platform installer. (For more information, please refer to the Storage Platform User Manual.)
2. In the Storage Platform Configuration tree, click the StorageServer that will be mirrored.
3. On the **StorageServer** menu, click **Add MirrorServer**. Alternatively, right-click the StorageServer name, and then click **Add MirrorServer**.
4. In the **Add MirrorServer** dialog box that appears, type a display name in the **Name of entry** box if you wish to use one.



The dialog box titled "Add MirrorServer" contains the following fields and options:

- Name of entry (optional):** MirrorServerA
- IP Address or DNS Name:** (empty text box)
- Port:** (empty text box)
- Use Master Password:** (selected radio button)
- Use these credentials:** (unselected radio button)
- Username:** admin
- Password:** (empty text box)
- One Time Password:** (empty text box)
- OK** and **Cancel** buttons at the bottom.

5. Type the IP address or DNS name in the box provided.
6. In the **Port** box, type the port number to be used.
7. Select the login credentials you wish to use: **Use Master Password** or **Use these credentials**.
8. If necessary, type the login details in the boxes provided.

9. In the **One Time Password** box, type the password provided to you during the StorageServer installation.



Tip: Should you forget the OTP provided during installation, you can access it in the **Settings.xml** file located in %appdata%\<product folder>\SS_Service\.

It is the first 8 characters of the <ServerGuid> entry e.g.:

<ServerGuid>83470821-caec-482c...

10. Click **OK**.
11. In the **Configure StorageServer** dialog box that appears, configure the **MirrorTo** tab as described in step 2 below.



Tip: Refresh the SP Console to view the MirrorServer node in the Storage Platform Configuration tree. You can now configure the mirroring setup and schedule.

To enable mirroring from the StorageServer to the MirrorServer:

1. Click the StorageServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the StorageServer name and then click **Configure**.
2. On the **Mirror To** tab, select the **Mirror this StorageServer** check box.
3. Configure the Target, Mirror Schedule and Create Catch-up areas as desired. For more information, see “Configure StorageServer dialog box” later in this chapter.
4. Click **OK**.
5. In the Storage Platform Configuration tree, click the MirrorServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the StorageServer name and then click **Configure** or double-click the MirrorServer name.
6. Click the **Mirror From** tab.
7. Depending on the login credentials chosen when adding the MirrorServer (as described in step 7 of “To add a MirrorServer to a StorageServer” above), perform one of the following actions:
 - a. If **Use Master Password** was selected, ensure that the **Master Password** check box is selected.
 - b. If other credentials were supplied, select the **Mirror Accounts** check box, click the **Add** button, and then enter the same credentials specified during the “Add MirrorServer” process (as described in step 7 of “To add a MirrorServer to a StorageServer”). Click **OK**.
8. Click **OK**.

To disable mirroring from the StorageServer to the MirrorServer:

1. Click the StorageServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the StorageServer name and then click **Configure**.

2. On the **Mirror To** tab, clear the **Mirror this StorageServer** check box.
3. Click **OK**.

To configure mirroring:

1. Click the StorageServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the StorageServer name and then click **Configure**.
2. On the **Mirror To** tab, ensure that the **Mirror this StorageServer** check box is selected.
3. Configure the settings on the **Mirror To**, **Mirror Throttle** and **Mirror From** tabs as desired. For more information, see “Configure StorageServer dialog box” later in this chapter.
4. Once you’ve configured all the settings, click **OK**.

To start the mirroring process:

1. In the Storage Platform Configuration tree, click the StorageServer name.
2. Click the **Start Mirror** button on the toolbar.



***Tip:** Logs related to the mirroring process will display in the Diagnostics area.*

To cancel the mirroring process:

1. Click the StorageServer name.
2. Click the **Cancel Mirror** button on the toolbar.

To restore data from a MirrorServer:



***Warning:** Restoring the data from a MirrorServer deletes the existing data on your StorageServer. Use with caution and ensure that your MirrorServer is also configured before starting this process.*

1. Open the Storage Platform Console and then click the **Storage Platform Configuration** button in the view selector.
2. In the Storage Platform Configuration tree, select the name of the StorageServer you wish to use to restore the data.
3. Click the **Configure** button on the toolbar.
4. On the **MirrorTo** tab, ensure that the correct MirrorServer settings are configured and then click the **Restore Mirror** button.

The StorageServer will restore the mirrored data from the MirrorServer. This **deletes and replaces the existing StorageServer** and includes the Backup Account data and the AccountServer database.



Warning: Mirroring is disabled when you click this button to ensure that no scheduled mirrors will be initiated during the restore process.

5. After the restore has completed, select the AccountServer name in the tree, and then click the **Restore DB** button on the toolbar. This will restore the AccountServer database from the StorageServer to the AccountServer.
6. Enable mirroring again in the StorageServer **MirrorTo** section.

Enabling/disabling HSM

Hierarchical Storage Management (HSM) enables you to move roll-ups to a removable device before they are deleted. (For more information on roll-ups, see *Roll-ups tab* in Chapter 6, “Account Management”.) These archives (roll-ups) can then be restored to the live Storage Platform at any stage if data has to be recovered from a backup set that is no longer available online.

In order to use the HSM feature, you first need to enable HSM on the StorageServer and then enable and configure how you would like it to function at Group level. Below are instructions on enabling and disabling HSM on the StorageServer. See *Roll-ups tab* in Chapter 6, “Account Management” for instructions on enabling and configuring HSM at the Group level.

To enable HSM on the StorageServer:

1. Click the StorageServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the StorageServer name and then click **Configure**.
2. Click the **HSM** tab.
3. Select the Enable HSM on this StorageServer check box.
4. Select the format in which the HSM files should be saved.
5. Ensure that the HSM folder export and import directories are correct.
6. Click **OK**.



Note: HSM exports on the same hard disk volume as the StorageServer's Data folder will consume less disk space than exports to a different hard disk volume. The former is de-duplicated (SIS) and the latter is not. (not applicable to ESE Backup Accounts)



Warning: Running the Storage Platform on ReFS will cause HSM to function only for ESE Backup Accounts.

To disable HSM on the StorageServer:

1. Click the StorageServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the StorageServer name and then click **Configure**.
2. Click the **HSM** tab.
3. Clear the Enable HSM on this StorageServer check box.
4. Click **OK**.

Managing the StorageServer IP address

The Storage Platform Console allows you to specify which IP address a StorageServer should bind to when multiple IP addresses are available. It also allows you to change the StorageServer IP address altogether, should the need arise. See below for instructions on performing each task.

Bindings

On a multi-homed system (a server with multiple IP addresses), you can select which IP address the StorageServer should bind to.

To bind a StorageServer to a specific IP address:

1. Click the StorageServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the StorageServer name and then click **Configure**.
2. Click the **Bindings** tab.
3. Select the IP address you wish to bind the StorageServer to.
4. Click **OK**.

For more information on configuring bindings, see “Bindings” later in this chapter.

Changing the StorageServer IP address



Warning: This is an advanced function and should be used with caution. Changing the StorageServer IP address on the AccountServer will result in ALL Backup Clients using the new address.

To change the StorageServer IP address:

1. In the Storage Platform Configuration tree, click the name of the StorageServer.
2. On the **StorageServer** menu, point to **Advanced**, and then click **Change StorageServer address**. Alternatively, right-click the name of the StorageServer, and then point to **Advanced** and click **Change StorageServer address** on the shortcut menu.
3. In the **Warning** dialog box that appears, click **OK**.

4. In the **Change Server IP and Port on AccountServer** dialog box, modify the IP address and port number as required.
5. Click **OK**.

Locking/unlocking the StorageServer

The Storage Platform Console allows you to lock and unlock StorageServers. Locking a server prevents any new Backup Accounts from being added to it automatically. Unlocking a server allows the automatic addition of new Backup Accounts.



Note: Backup Accounts are still allocated to a locked StorageServer if explicitly configured on the Backup Group settings. Also see “Admin tab” in the Backup Groups section of Chapter 6, “Account Management”.

To lock the StorageServer:

1. In the Storage Platform Configuration tree, click the StorageServer name.
2. On the **StorageServer** menu, point to **Advanced**, and then click **Lock StorageServer**. Alternatively, right-click the StorageServer name and then point to **Advanced** and click **Lock StorageServer** on the shortcut menu.
3. In the **Warning** dialog box that appears, click **Yes**.

The StorageServer will be locked and Backup Users will not be able to add Backup Accounts to it. You can, however, unlock the server at any time, thereby allowing new Accounts to be added to it.

To unlock the StorageServer:

1. In the Storage Platform Configuration tree, click the StorageServer name.
2. On the **StorageServer** menu, point to **Advanced**, and then click **Unlock StorageServer**. Alternatively, right-click the StorageServer name and then point to **Advanced** and click **Unlock StorageServer** on the shortcut menu.
3. In the **Info** dialog box that appears, click **Yes**.

Users will now be able to add new Backup Accounts to this StorageServer.

Starting a StorageServer clean-up

To start a clean-up:

1. In the Storage Platform Configuration tree, click the StorageServer name.
2. On the **StorageServer** menu, point to **Advanced**, and then click **Start Clean-up**.

Restarting the StorageServer service

To restart the StorageServer service:

1. In the Storage Platform Configuration tree, right-click the StorageServer name, point to **Advanced**, and then click **Restart Service**.
2. In the confirmation dialog box that appears, click **Yes**.

Configure StorageServer dialog box

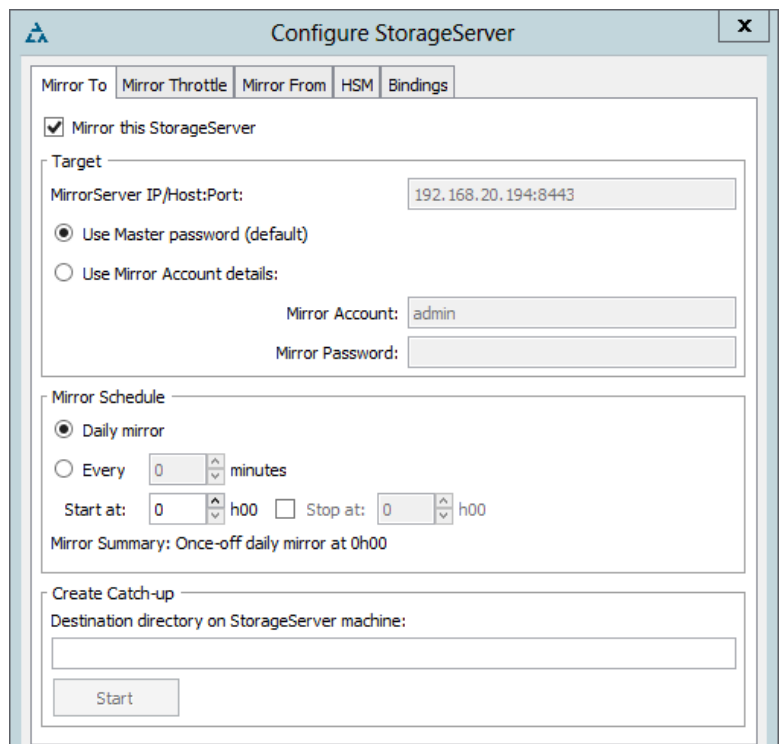
Mirror To tab

To enable a StorageServer to mirror data to another server, you need to add a MirrorServer to it. You can do this using the Add Mirror button on this tab or using the StorageServer main menu or shortcut menu, as described in “Managing mirroring” later in this chapter.

Once a MirrorServer has been added, the following tab areas and configuration options will be available:

Target

In this area, you can specify the MirrorServer IP address and port number (e.g. 192.168.20.147:8443) and supply the Mirror Account details in the boxes provided.



The screenshot shows the 'Configure StorageServer' dialog box with the 'Mirror To' tab selected. The 'Mirror this StorageServer' checkbox is checked. The 'Target' section contains a text box for 'MirrorServer IP/Host:Port' with the value '192.168.20.194:8443'. Below this are two radio buttons: 'Use Master password (default)' (selected) and 'Use Mirror Account details:'. The 'Use Mirror Account details' section has a 'Mirror Account' text box with 'admin' and an empty 'Mirror Password' text box. The 'Mirror Schedule' section has a 'Daily mirror' radio button selected, and an 'Every' option with a spinner set to '0' minutes. Below the schedule are 'Start at' and 'Stop at' spinners, both set to '0 h00'. A 'Mirror Summary' line reads 'Once-off daily mirror at 0h00'. The 'Create Catch-up' section has a text box for 'Destination directory on StorageServer machine:' and a 'Start' button.

Mirror Schedule

Configure the Mirror Schedule by selecting either Daily Mirror or Every x minutes, and then specify the time at which the mirror should start. You also have the option to specify a mirror window by adding a mirror end time. When the end time is reached, the Mirror process is cancelled, and will commence again at the configured start time. The Mirror Summary displays the exact mirror schedule, e.g. Once-off daily mirror from 03h00 to 08h00, Every 45 minutes between 05h00 and 10h00, or Every 180 minutes.

Create Catch-up

Mirror Catch-up enables you to manually get your MirrorServer up to date if it is a few days behind and there is too much data to be transferred over limited bandwidth.

To use the Mirror Catch-up tool:

1. Specify a Destination directory. This destination directory could, for example, be a temporary USB hard drive connected to the Storage Platform.



Note: *Mirror Catch-up is only available if Mirroring is enabled.*

2. To initiate the process, click Start. The Storage Platform will copy all relevant Account data to the specified directory.



Note: *Mirroring is disabled during this process.*

The SP Console will notify you when all the files have been copied to the specified location.

3. Import the data on the MirrorServer:
 - a. After you have attached the USB hard drive to the MirrorServer, open the StorageServer Mirror From tab.



Note: *This must be the actual MirrorServer.*

- b. Specify the Destination directory on StorageServer machine.
- c. Click Start.

The Storage Platform will transfer the data to the correct locations and notify you when the transfer is complete.



Note: *Remember to enable Mirroring again on the main StorageServer (on the **MirrorTo** tab) once the Mirror Catch-up is complete.*

Mirror Throttle tab

The **Mirror Throttle** tab enables you to specify bandwidth usage speed limits by creating a mirror throttle schedule. Mirrored data will then only be transferred at the specified speed limits during each interval.



Tip: This is very advantageous as you can limit the mirroring bandwidth during peak hours rather than having to cancel the process.

Changes are immediate, as you will see in the Activity area, where the transfer speed is displayed.

Speed Limits

In the **Speed Limits** area, you can specify up to six limits to be applied at times specified in the Schedule area.

Schedule

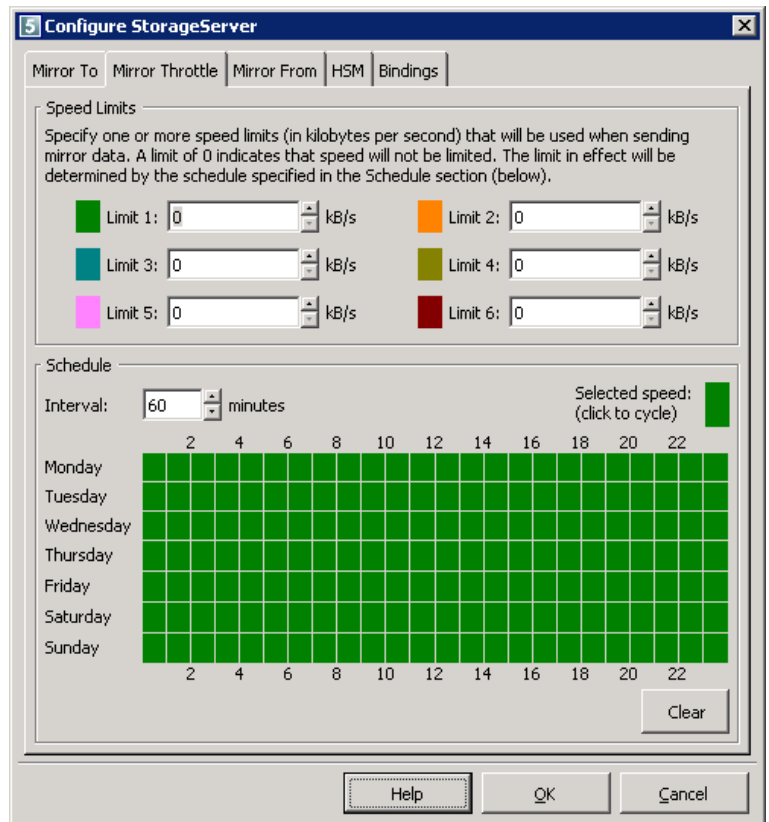
In the Schedule area, you can schedule the times at which the limits configured in the Speed Limits area will be enforced.

To schedule the mirroring limits:

1. Specify an interval duration between 15 minutes and 1440 minutes (24 hours).
2. Click a speed limit colour in the **Speed Limits** area (or click the **Selected Speed** colour in the **Schedule** area to cycle through the available limits).
3. Configure the Schedule by clicking in the desired Schedule interval boxes.



Tip: The **Clear** button will clear the Schedule.



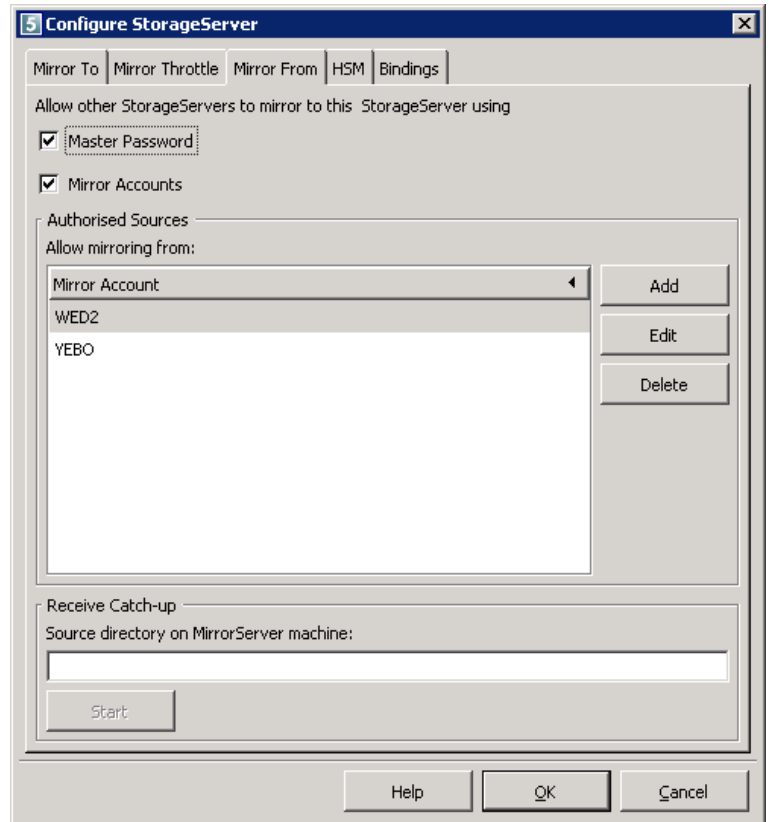
The screenshot shows the 'Configure StorageServer' dialog box with the 'Mirror Throttle' tab selected. The 'Speed Limits' section contains six color-coded limit fields (Limit 1 to Limit 6), each with a value of 0 and a unit of kB/s. The 'Schedule' section shows an interval of 60 minutes and a grid for scheduling limits across the days of the week (Monday to Sunday) and time intervals (2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22). A 'Selected speed' dropdown is set to the first green limit. A 'Clear' button is located at the bottom right of the schedule grid. At the bottom of the dialog are 'Help', 'OK', and 'Cancel' buttons.

Mirror From tab

You may configure the StorageServer to receive mirror data from other StorageServers.

To enable other StorageServers to mirror to this one:

1. Select the login credentials to be allowed (Master Password and/or Mirror Account[s]).
2. If you select the **Mirror Accounts** check box, you can use the **Add**, **Edit** and **Delete** buttons to create and manage a list of Accounts in the Mirror Account list. All accounts in this list will be allowed to mirror to this StorageServer.
3. Click **OK**.

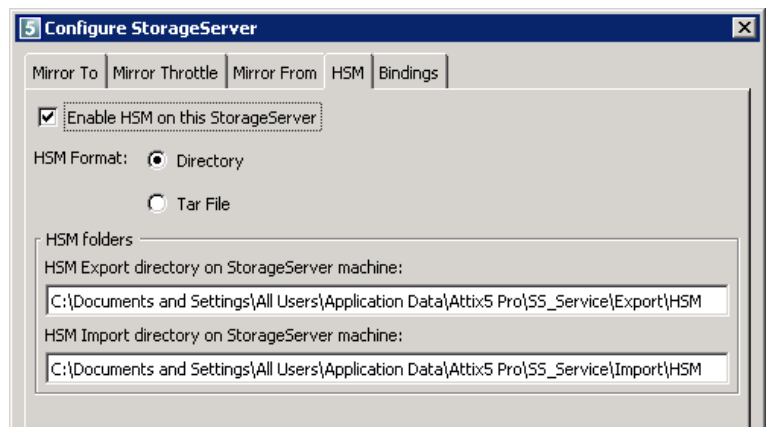


Tip: Every night at midnight, a log file is created which logs the total usage for each mirror client. This file is located in the **Logs** directory (in the directory in which the Storage Platform is installed) and is called **MIRRORTOTALS<date>.LOG**

HSM tab

HSM (Hierarchical Storage Management) in Backup Pro enables you to move roll-ups before they are deleted. (For more information on roll-ups, see *Configuring Group Settings* in Chapter 6, "Account Management".)

You have two HSM format options: **Directory** and **Tar File**. Choose the **Directory** HSM format if you wish to store the roll-up data in its original directory structure.



Alternatively, select **Tar File** to compress each roll-up into a single Tar file during the HSM process and thereby speed up the transfer to the destination directory.



Tip: Data saved in HSM format can be archived to an external drive or a share on a network and then moved back to the live Storage Platform at any stage if data has to be recovered from a backup set that is no longer available.

Once you've selected the HSM format, note the Export and Import folder locations on the StorageServer machine. You will need to navigate to these locations to make HSM data available for restore on Clients. (For more information, see "Importing HSM data" later in Chapter 6, "Account Management".) If you wish to change the default locations, edit the fields, and then click **OK**.



Note: For the **Directory** option, Single Instance Storage is applied to HSM folders on the same hard drive volume as the StorageServer's Data folder (as was configured during Storage Platform installation).



Warning: Please ensure that the directories specified for HSM have enough space to accommodate your archive data.

Bindings tab

On a multi-homed system (a server with multiple IP addresses), you can select which IP address the StorageServer should bind to.

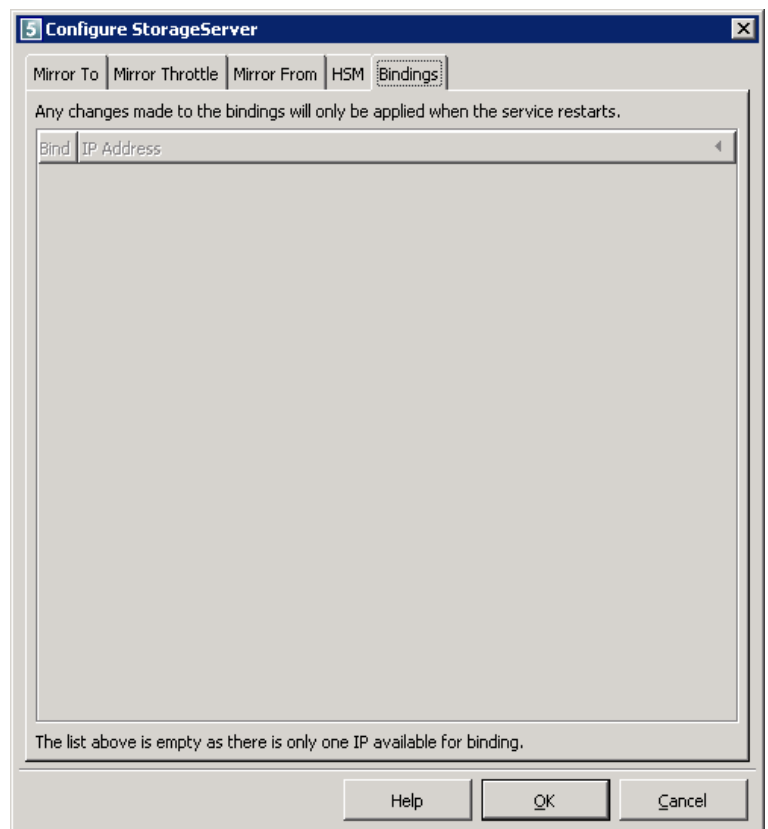


Note: This setting will only be enabled if multiple IP addresses are available.

Access often-used reports

To access often-used StorageServer reports:

1. In the Storage Platform Configuration tree, right-click the StorageServer name.
2. Point to **Reports**, and then select the report that you want to access.



MirrorServers

In some backup environments, you may wish to increase redundancy by sending a copy of StorageServer data to another server. The duplicate server could be used as a replacement if your primary StorageServer goes down for any reason.

Backup Pro allows you to set up and maintain a copy of StorageServer data on another server called a “MirrorServer”. A Backup Pro MirrorServer can be set up onsite or at a separate location. You can then configure the StorageServer to send a copy of all backups to it either once a day or at specified intervals. This is especially useful for backup environments that would benefit from having a Disaster Recovery site.



Tip: With Backup Pro, you also have the option to mirror data between StorageServers (a StorageServer can function as both a StorageServer and MirrorServer [receiving mirrored data from another StorageServer]).



Note: Please refer to the Storage Platform User Manual for detailed instructions on the physical setup of MirrorServers. Once your MirrorServer is installed and online, you can use the SP Console to connect your StorageServer (or another MirrorServer) to it and then configure the mirroring process.

Using the SP Console, you can manage the following MirrorServer connections and processes:

- Add MirrorServers to StorageServers (See “StorageServers” earlier in this chapter)
- Add MirrorServers to other MirrorServers
- Rename/remove servers
- Enable/disable/configure mirroring
- Start/cancel the mirroring process
- Restore data from a MirrorServer (See “StorageServers” earlier in this chapter)
- Enable/disable MirrorServer HSM
- Bind the MirrorServer to an IP address

All the above actions can be performed via the MirrorServer main and shortcut menus.

To access the MirrorServer main menu:

1. Open the Storage Platform Console.
2. Click the **Storage Platform Configuration** button in the view selector.
3. In the Storage Platform Configuration tree, expand the Storage Pool node under the AccountServer node.
4. Navigate to and then click the MirrorServer name.
5. Click the **MirrorServer** menu that appears on the menu bar.

To access the MirrorServer shortcut menu:

1. Open the Storage Platform Console.
2. Click the **Storage Platform Configuration** button in the view selector.
3. In the Storage Platform Configuration tree, expand the Storage Pool node under the AccountServer node.
4. Navigate to and right-click on the MirrorServer name.

For more information on each of the options available, see *Special menus and toolbar buttons* in Chapter 5, “Graphical User Interface (GUI)”.

Adding, removing and renaming MirrorServers

To add a MirrorServer to a StorageServer:

See “StorageServers” earlier in this chapter.

To add a MirrorServer to another MirrorServer

1. Install a MirrorServer using the Storage Platform installer. For more information, please refer to the Storage Platform User Manual.
2. In the Storage Platform Configuration tree, right-click the MirrorServer name and then click **Add MirrorServer**.
3. In the **Add MirrorServer** dialog box that appears, type a display name in the **Name of entry** box if you wish to use one.
4. Type the IP address or DNS name in the box provided.
5. In the **MirrorServer Port** box, type the port number to be used.
6. Type the Administrator password in the **Password** box.
7. Select the **Save Password** check box if you wish the SP Console to pre-populate the **Password** box for future MirrorServer additions.
8. Click Save & Connect.
9. Refresh the SP Console to view the **MirrorServer** node in the Storage Platform Configuration tree.

You can now configure the mirroring setup and schedule. For more information, see “Enabling, disabling and managing mirroring” later in this chapter.

To rename a MirrorServer:

1. In the Storage Platform Configuration tree, click the StorageServer name.
2. On the **StorageServer** menu, click **Rename**. Alternatively, right-click the StorageServer name and then click **Rename** on the shortcut menu.

3. In the **Rename MirrorServer** dialog box that appears, type a new display name in the **Name of entry** box.
4. Click **OK**.

To remove a MirrorServer:

1. In the Storage Platform Configuration tree, click the MirrorServer name.
2. On the **MirrorServer** menu, click **Delete**. Alternatively, right-click the MirrorServer name and then click **Delete** on the shortcut menu.
3. In the confirmation dialog box that appears, click **Yes**.
4. A second confirmation dialog box will appear, asking if you wish to remove all Accounts on the MirrorServer. Click **Yes** to remove all Accounts immediately. Click **No** to keep all Accounts.

Enabling, disabling and managing mirroring

To enable mirroring from the StorageServer to the MirrorServer:

See “StorageServers” earlier in this chapter.

To enable mirroring from one MirrorServer to another:

1. In the Storage Platform Configuration tree, click the parent MirrorServer name, and then click the **Configure** button on the toolbar. Alternatively, right-click the MirrorServer name, and then click **Configure**.
2. The **Configure StorageServer** dialog box appears and displays the **Mirror To** tab by default. Select the **Mirror this StorageServer** check box.
3. Configure the **Target**, **Mirror Schedule** and **Create Catch-up** areas as desired. For more information, see “Configure MirrorServer dialog box” later in this chapter.
4. Click **OK**.
5. In the Storage Platform Configuration tree, click the child MirrorServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the MirrorServer name and then click **Configure**.
6. Click the **Mirror From** tab.
7. Select the login credentials allowed to mirror to this server. If a particular Mirror Account is to be used, create a Mirror Account using the **Add** button. (For more information, see “Mirror From tab” later in this chapter.)
8. Click **OK**.

To disable mirroring from the StorageServer to the MirrorServer:

See “StorageServers” earlier in this chapter.

To disable mirroring from one MirrorServer to another:

1. Click the parent MirrorServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the MirrorServer name and then click **Configure**.
2. On the **Mirror To** tab, clear the **Mirror this StorageServer** check box.
3. Click **OK**.

To configure mirroring:

1. In the Storage Platform Configuration tree, click the MirrorServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the MirrorServer name and then click **Configure**.
2. On the **Mirror To** tab, ensure that the **Mirror this StorageServer** check box is selected.
3. Configure the settings on the **Mirror To**, **Mirror Throttle** and **Mirror From** tabs as desired. For more information, see “Configure MirrorServer dialog box” later in this chapter.
4. Once you’ve configured all the settings, click **OK**.

To start the mirroring process:

1. In the Storage Platform Configuration tree, click the MirrorServer name.
2. Click the **Start Mirror** button on the toolbar.



Tip: Logs related to the mirroring process will display in the Diagnostics area.



Note:

- At least one Backup Client needs to back up to the StorageServer or retrieve it’s Backup Account settings before you can perform a full mirror.
- When you perform the first mirror, all StorageServer data is mirrored to the MirrorServer, including any roll-ups it may contain. Thereafter, the StorageServer will mirror without roll-ups, as the MirrorServer will perform its own roll-ups, according to its roll-up schedule. For more information on MirrorServer roll-ups, see the advanced section of Roll-ups tab in Chapter 6, “Account Management”.



Warning: The MirrorServer must have the same major and minor version as the StorageServer, or later. If this is not the case, the mirror process will fail with the appropriate message appearing in the StorageServer log. For example:

In V6.2.3, 6 is the major version and 2 is the minor version. Therefore, if the StorageServer is V6.2.3, it can be mirrored to a V6.2.2 MirrorServer but not to a V6.1.1 MirrorServer.

To cancel the mirroring process:

Click the MirrorServer name and then click the **Cancel Mirror** button on the toolbar.

To restore data from a MirrorServer:

See “StorageServers” earlier in this chapter.

Managing Mirror Accounts

When configuring a MirrorServer (or StorageServer) to accept mirrored data from StorageServers, you can allow those StorageServers to connect to it using the Storage Platform’s Master Password or a Mirror Account.

Master Password

The Master Password would have been defined during the Storage Platform installation process.

It is the password used to access the AccountServer, StorageServer(s) and MirrorServer(s).



Tip: For instructions on how to change the Master Password, see “Master Password” under “Advanced Options” in the AccountServer section of Chapter 7, “Storage Platform Configuration”.



Warning: If mirroring more than one StorageServer, a maximum of one StorageServer should connect to the MirrorServer using the Master Password. The recommended setup would be to mirror each StorageServer using a different Mirror Account.

Mirror Account

You may wish to prevent the StorageServer from mirroring with the Master Password (e.g. if more than one StorageServer is connecting to the same MirrorServer.) In such cases, you can create a Mirror Account with a username and password different to that of the Admin role.



Note: When mirroring via a Mirror Account, the MirrorServer certificate is not updated automatically and needs to be manually updated. To manually update the MirrorServer certificate, copy the “.p12” file from the StorageServer’s **SS_Service** folder to the MirrorServer’s **.p12** folder.

If the MirrorServer is managed by a separate party, who could be providing mirroring for several customers, the certificates should be managed by the separate party.

To create a Mirror Account:

1. Select the MirrorServer in the Storage Platform Configuration tree.
2. Click the **Configure** button on the main toolbar. Alternatively, click the **MirrorServer** menu, and then select **Configure** or right-click the server name and then select **Configure** on the shortcut menu that displays.
3. Click the **MirrorFrom** tab.
4. In the Authorised Sources area, click the **Add** button.
5. In the **Mirror Account** dialog box that appears, type an Account name and password in the boxes provided, and then click **OK**.

6. Click **OK** again to close the **Configure MirrorServer** dialog box.

The Mirror Account now exists on the MirrorServer but you need to configure the StorageServer that will be mirroring to it to use the new Account.

To configure a StorageServer to use a Mirror Account:

1. Select the server you wish to mirror in the Storage Platform Configuration tree.
2. Click the **Configure** button on the main toolbar. Alternatively, click the **StorageServer/MirrorServer** menu, and then select **Configure** or right-click the server name and then select **Configure** on the shortcut menu that displays.
3. On the **MirrorTo** tab, select **Use Mirror Account details**.
4. In the **Mirror Account** and **Mirror Password** boxes, type the same Mirror Account details you specified when creating the Account (see above).
5. Click **OK**.

The StorageServer and MirrorServer have now been configured to use a Mirror Account to perform mirrors. You can now start a Mirror.

To start mirroring data between a StorageServer and MirrorServer:

1. Ensure that the StorageServer is selected in the Storage Platform Configuration tree.
2. Click the **Start Mirror** button on the main toolbar. Alternatively, right-click the StorageServer name, and then click **Start Mirror** on the shortcut menu that appears.

Enabling/disabling MirrorServer HSM

Hierarchical Storage Management (HSM) enables you to archive data before they are deleted. (For more information on roll-ups, see *Roll-ups tab* in Chapter 6, “Account Management”.) These archives (roll-ups) can then be restored to the live Storage Platform at any stage if data has to be recovered from a backup set that is no longer available online.

In order to use the HSM feature, you first need to enable HSM on the MirrorServer and then enable and configure how you would like it to function at Group level. Below are instructions on enabling and disabling HSM on the MirrorServer. See the advanced section of *Roll-ups tab* in Chapter 6, “Account Management” for instructions on enabling and configuring HSM at the Group level.

To enable MirrorServer HSM:

1. In the Storage Platform Configuration tree, click the MirrorServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the MirrorServer name and then click **Configure**.
2. Click the **HSM** tab.
3. Select the Enable HSM on this StorageServer check box.

4. Select the format in which the HSM files should be saved.
5. Ensure that the HSM folder export and import directories are correct.
6. Click **OK**.

For more information on Hierarchical Storage Management (HSM), see “HSM tab” later in this Chapter.



Note: HSM exports on the same hard disk volume as the StorageServer's Data folder will consume less disk space due to de-duplication (SIS) than exports to a different hard disk volume which will not be de-duplicated. (not applicable to ESE Backup Accounts)



Warning: Running the Storage Platform on ReFS will cause HSM to function only for ESE Backup Accounts.

To disable MirrorServer HSM:

1. In the Storage Platform Configuration tree, click the MirrorServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the MirrorServer name and then click **Configure**.
2. Click the **HSM** tab.
3. Clear the Enable HSM on this StorageServer check box.
4. Click **OK**.

For more information on Hierarchical Storage Management (HSM), see “HSM tab” later in this chapter.

Managing the MirrorServer IP address

The Storage Platform Console allows you to specify which IP address a MirrorServer should bind to when multiple IP addresses are available. It also allows you to change the MirrorServer IP address altogether, should the need arise. See below for instructions on performing each task.

Bindings

On a multi-homed system (a server with multiple IP addresses), you can select which IP address the MirrorServer should bind to.

To bind a MirrorServer to a specific IP address:

1. Click the MirrorServer name and then click the **Configure** button on the toolbar. Alternatively, right-click the MirrorServer name and then click **Configure**.
2. Click the **Bindings** tab.
3. Select the IP address you wish to bind the MirrorServer to.
4. Click **OK**.

For more information, see “Bindings tab” later in this chapter.

Changing the StorageServer IP address



Warning: This is an advanced function and should be used with caution. Changing the StorageServer IP address on the AccountServer will result in ALL Backup Clients using the new address.

To change the MirrorServer IP address:

1. In the Storage Platform Configuration tree, click the name of the MirrorServer.
2. On the **MirrorServer** menu, point to **Advanced**, and then click **Change MirrorServer address**. Alternatively, right-click the name of the MirrorServer, and then point to **Advanced** and click **Change MirrorServer address** on the shortcut menu.
3. In the **Warning** dialog box that appears, click **OK**.
4. In the **Change Server IP and Port on AccountServer** dialog box, modify the IP address and port number as required.
5. Click **OK**.

Restarting the MirrorServer service

To restart the MirrorServer service:

1. In the Storage Platform Configuration tree, right-click the MirrorServer name, point to **Advanced**, and then click **Restart Service**.
2. In the confirmation dialog box that appears, click **Yes**.

Configure MirrorServer dialog box

Mirror To tab

You can use the **Add Mirror** button to add another MirrorServer to this one. See “Adding, removing and renaming MirrorServers” earlier in this chapter. Once added, the **Mirror this StorageServer** check box will be selected by automatically. Below are descriptions of the options available when mirroring is enabled.

Target

In this area, you can specify the MirrorServer IP address and port number e.g. 192.168.20.147:8443, and supply the Mirror Account details in the boxes provided.

Mirror Schedule

Configure the Mirror Schedule by choosing either **Daily Mirror** or **Every x minutes**, and then specifying the time at which the mirror should start. You also have the option to specify a mirror window by adding a mirror end time. When the end time is reached, the Mirror process is cancelled, and will commence again at the configured start time.

The **Mirror Summary** displays the exact mirror schedule, e.g. Once-off daily mirror from 03h00 to 08h00, Every 45 minutes between 05h00 and 10h00, or Every 180 minutes.

Create Catch-up

Mirror Catch-up enables you to manually get your MirrorServer up to date, if it is a couple of days behind and there are too much data to be transferred over limited bandwidth.

To use the Mirror Catch-up tool, specify a **Destination directory**. This destination directory could, for example, be a temporary USB hard drive connected to the Storage Platform. Note that Mirror Catch-up is only available if Mirroring is enabled. To initiate the process, click **Start**. The Storage Platform will copy all relevant account data to the specified directory.

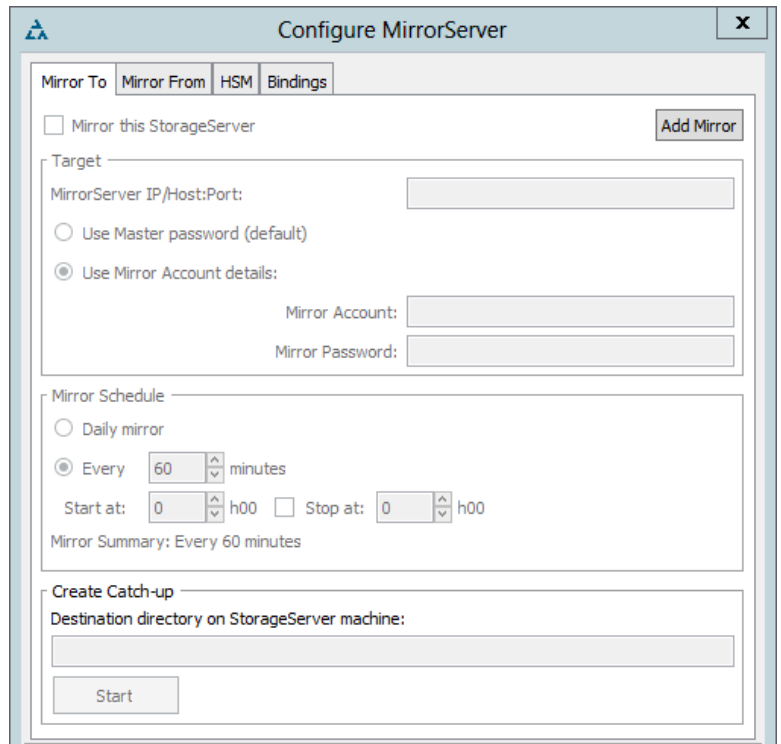


Note: *Mirroring is disabled during this process.*

The Storage Platform Console will notify you when all the files have been copied to the specified location.

Next, import the data on the MirrorServer. After you have attached the USB hard drive to the MirrorServer, open the StorageServer **Mirror From** tab. Note this must be the actual MirrorServer. Specify the **Source directory on StorageServer machine** and click **Start**.

The Storage Platform will transfer the data to the correct locations and notify you when the transfer is complete.





Note: Remember to enable mirroring again on the main StorageServer, in the **MirrorTo** tab, once the Mirror Catch-up is complete.

Mirror Throttle tab

The **Mirror Throttle** tab enables you to specify bandwidth usage speed limits by creating a mirror throttle schedule. Mirrored data will then only be transferred at the specified speed limits during each interval.

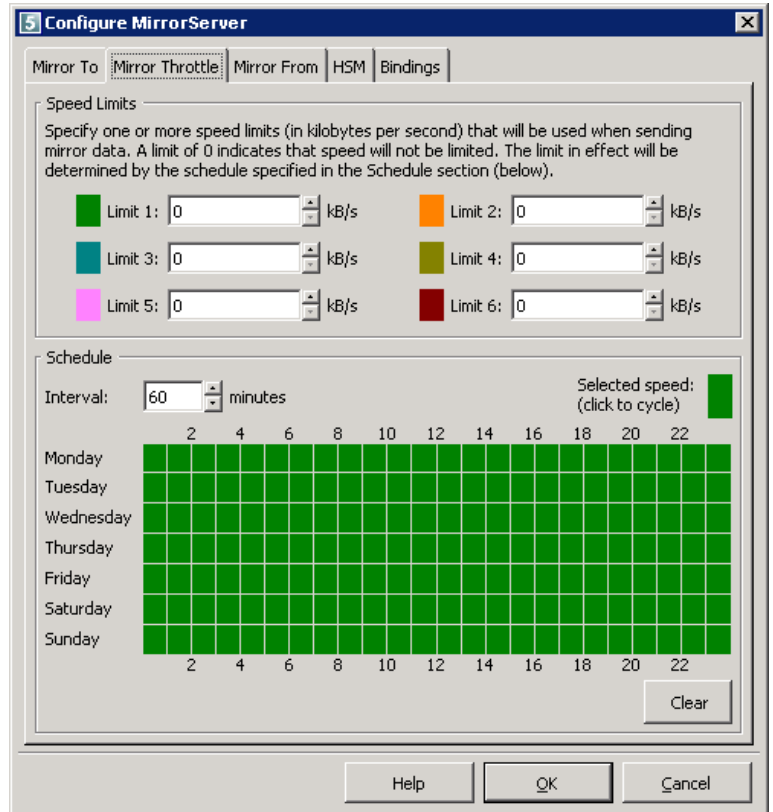


Note: This tab is only available if the MirrorServer is configured to mirror to another MirrorServer. See *Adding, removing and renaming MirrorServers*.



Tip: This is very advantageous as you can limit the mirroring bandwidth during peak hours rather than having to cancel the process.

Changes are immediate, as you will see in the Activity area, where the transfer speed is displayed.



Speed Limits

In the **Speed Limits** area, you can specify up to six limits to be applied at times specified in the Schedule area.

Schedule

In the Schedule area, you can schedule the times at which the limits configured in the Speed Limits area will be enforced.

To schedule the mirroring limits:

1. Specify an interval duration between 15 minutes and 1440 minutes (24 hours).
2. Click a speed limit colour in the **Speed Limits** area (or click the **Selected Speed** colour in the **Schedule** area to cycle through the available limits).
3. Configure the Schedule by clicking in the desired Schedule interval boxes.



Tip: The Clear button will clear the Schedule.

Mirror from tab

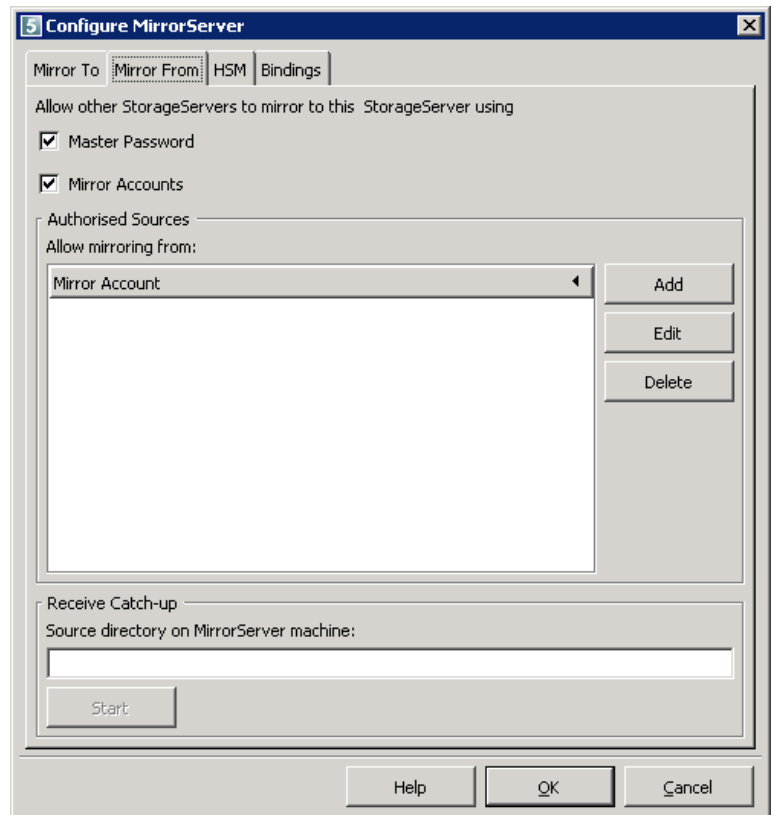
You may configure the MirrorServer to receive mirror data from other StorageServers.

To enable other StorageServers to mirror to this one:

1. Select the login credentials to be allowed.
2. Click the **Add** button.
3. In the **Mirror Account** dialog box that appears, type the Mirror Account name and password in the boxes provided.
4. Click **OK**.

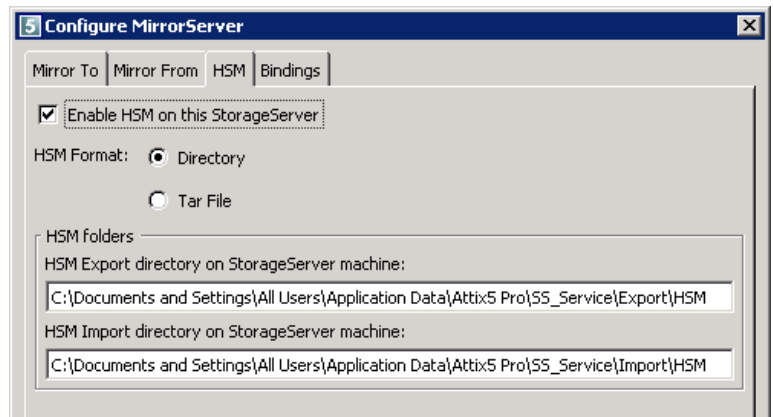


Tip: Every night at midnight, a log file is created which logs the total usage for each mirror client. This file is located in the **Logs** directory (in the directory in which the Storage Platform is installed) and is called **MIRRORTOTALS<date>.LOG**.



HSM tab

HSM (Hierarchical Storage Management) in Backup Pro enables you to move roll-ups before they are deleted. For more information on roll-ups, see *Configuring Group Settings* in Chapter 6, "Account Management".





Tip: Roll-ups can be archived to a location separate to the Storage Platform and then moved back to the live Storage Platform at any stage if data has to be recovered from a backup set that is no longer available.



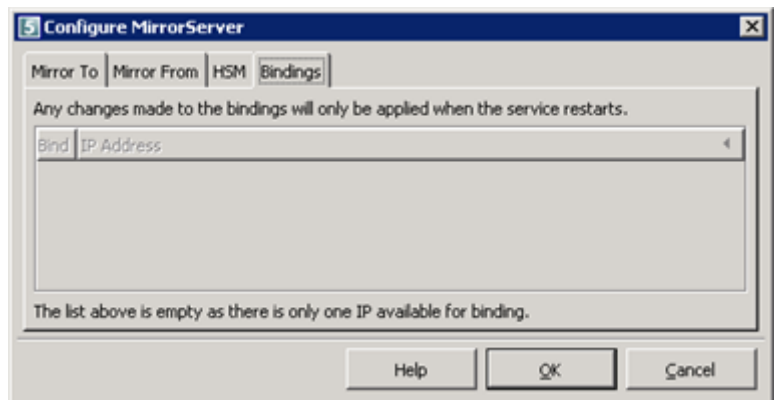
Note: For the **Directory** option, Single Instance Storage is applied to HSM folders on the same hard drive volume as the StorageServer's Data folder (as was configured during Storage Platform installation).

Bindings tab

On a multi-homed system (a server with multiple IP addresses), you can select which IP address the MirrorServer should bind to.



Note: This setting will only be enabled if multiple IP addresses are available. See *Adding, removing and renaming MirrorServers*.



8: Reports

Reports view

In the Reports view, you can administer the following:

- Enterprise Reports
- Standard Reports

You can manually run reports at any point in time or schedule that they be emailed automatically.

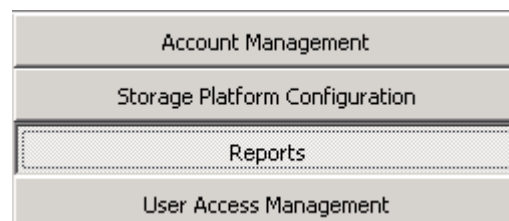


Note:






- *Enterprise Reports are installed by default and can be used by any Admin user.*
- *If you do not see the Standard section in the left-hand pane, it is not installed and/or activated. Please contact your Service Provider for additional information.*
- *Report logging is displayed in the Storage Platform Diagnostics area.*

To access the Reports view:

1. Open the SP Console and connect to the Storage Platform.
[See Chapter 5, “Graphical User Interface (GUI)”.]
2. In the view selector on the left of the SP Console, click the **Reports** button.



Reports view icon legend

Icon	Location	Description
	Reports tree	Enterprise Reports node
	Reports tree	Standard Reports node
	Reports tree – Enterprise node	Enterprise report
	Reports tree – Standard node	Enabled report
	Reports tree – Standard node	Disabled report

Enterprise Reports

The Enterprise ReportServer collects information from the AccountServer at predefined intervals and populates it into an ODBC-enabled database. This database can be queried using the Enterprise Reports.



Note:

- *The Enterprise Reports feature will only be available in the SP Console once it has been licenced. To acquire a licence, please contact your software provider.*
- *This User Manual describes how to work with existing SP Console reports. For information on creating new reports and advanced report editing, please refer to the Backup Pro Enterprise Reports User Manual.*
- *Normal database management needs to occur to ensure correct report functionality.*

An extensive range of report templates are available in the SP Console and displayed on the **Report Templates** tab in the work area when the **Enterprise** node is selected. These templates are grouped into nodes in the Reports tree, according to their functionality:

- **Audit** – Various audit trail reports to track user access and Storage Platform changes at Group and Account level.
- **Backup** – Backup reports include all backups for a specified period/Group/Account, detailed Server Edition (SE and ESE included) reports and the ability to highlight backups that did not backup in the last 24 hours.
- **HSM** – Reports include the Account name, roll-up date and the size and number of files.
- **Licence** – Information on Storage Platform, Backup Groups and Backup Accounts level.
- **Mirror** – Reports include Mirror due, all mirrors done for the previous month, all mirrors due for the current month, and mirroring information for the current month.
- **Other** – Includes a range of reports from the Backup Account and group summaries to capacity, roll-ups and success reports.
- **Restore** – Provides information about all restores for the current and previous month.

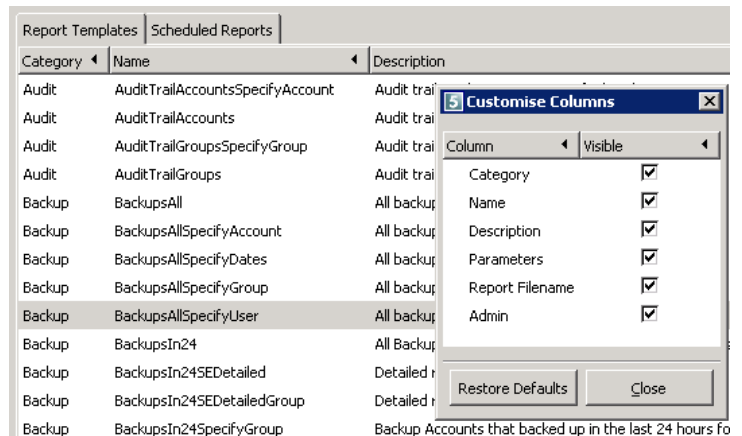


Tip: *For information on creating new categories and reports, please refer to the Backup Pro Enterprise Reports User Manual.*

Modifying the display settings

When either the **Enterprise** node or a sub-category is selected, the **Report Templates** tab displays a list of reports and their properties. You can select the property columns you wish to display/hide using the **Customise Columns** dialog box.

To show/hide property columns in the work area:



1. Click the **Customise Columns** button on the toolbar.
2. In the **Customise Columns** dialog box that appears, specify which columns you wish to display by selecting the check boxes next to the column names.
3. Clear the check boxes next to the names of any columns you wish to hide.
4. Click **Close**.



Tip: Click the **Refresh** button on the main toolbar option to refresh the Reports view.

ReportServer properties

In some circumstances, you may wish to change the SP Console's ReportServer URL reference.



Example:

- If your AccountServer (which includes your ReportServer) is behind a firewall and the IP address is translated from public to private (NAT), you would need to configure the SP Console to use the public IP address or host name.
- You may wish to view your reports over a secure connection. To do this, you would need to change the SP Console's ReportServer IP address reference to begin with "https://" instead of "http://". Please note that to do this, you need to install the Root Certificates in your browser to prevent it warning you about the SP certificate every time you try to view a report.

To change the ReportServer URL reference:

1. Click the **Enterprise** node in the Reports tree and then click the **Configure** button on the toolbar. Alternatively, double-click the **Enterprise** node.
2. In the **ReportServer properties** dialog box that appears, modify the ReportServer URL field as required.
3. Click **OK** to save the changes or **Cancel** to exit the window.

In cases where you wish to view your reports over a secure connection, you should install Root Certificates in your browser to prevent it warning you about the SP certificate every time you try to view a report. The certificates are added to your computer's trusted root certificates.

To install Root Certificates:

1. In the **ReportServer properties** dialog box, click the **Install Root Certificates** button.
2. In the **Security Warning** dialog box that appears, click **Yes**.

Another modifiable ReportServer property is the report retention period. You can specify how long the ReportServer will keep reports before deleting them.

To modify the report retention period:

1. Click the **Enterprise** node in the Reports tree and then click the **Configure** button on the toolbar. Alternatively, double-click the **Enterprise** node.
2. In the **ReportServer properties** dialog box that appears, specify how long the ReportServer should store reports before deleting them (the retention period is enabled by default and set to 60 days.) Modify the settings as required.
3. Click **OK** to save the changes or **Cancel** to exit the window.

Running vs. scheduling reports

In the Reports view, you can run a report manually at any time or schedule reports to run at particular times.

To run a report manually:

1. In the Reports tree, click the report template type.
2. In the work area, right-click the report name and then click **Show report**. Alternatively, double-click the report name.

The report will open in your default Internet browser. You can also schedule reports to be emailed automatically. See below.

To create a scheduled report:

1. Click the **Schedule Report** button on the toolbar.
2. The wizard will prompt for the report category and report template to be used, if you did not select a particular report before clicking the **Schedule Report** toolbar button.
3. Provide a name and description for this report, and then click **Next**.
4. Specify the delivery schedule.
5. Specify the delivery options. Use the **Add** button to specify the email addresses to which the reports must be emailed. Multiple email addresses must be separated with a semicolon.



***Tip:** Scheduled reports are displayed in the **Scheduled Reports** tab in the work area. The schedule of existing reports may be modified by clicking the **Configure** button on the main toolbar and can be removed by clicking the **Delete** button*

Standard Reports

The following reports can be emailed to one or more specified email addresses automatically, notifying the recipient(s) of certain activities on the Storage Platform:

- **Overview Report** – This report enables you to receive an overview of all activities on the Storage Platform. Information includes Account Information, Backup Status, Mirror Status and Usage Status. Any Backup Account issues will also be highlighted in the report.
- **Licence Report** – This CSV file reports on all licences allocated in the Storage Platform, sorted by Group.
- **StorageServer Disk Space Report** – This report will give you an indication of how much hard disk space is used and available on the StorageServer.
- **Mirror Report** – This is a notification message that will be sent to you after mirroring was completed successfully. Information includes the mirror duration, the number of Backup Accounts mirrored and the amount of data that was transferred.
- **Storage Platform Expiry Report** – You can configure this to notify you a certain number of days before the Storage Platform expires.
- **Group Expiry Report** – This is a notification message that will be sent to you before any of the Storage Platform Groups expire.
- **StorageServer Down Report** – This is a notification message that will be sent to you when the AccountServer cannot communicate with the StorageServer.

Before you can enable these reports, you must supply valid SMTP settings that will be used when the reports are emailed.

To configure SMTP settings:

1. Click the **Standard** node in the left-hand pane and then click the **Configure** button on the toolbar. Alternatively, right-click the node and then click **Configure** on the shortcut menu that appears.
2. Type the host and port numbers in the boxes provided.
3. Select **Use secure connection (STARTTLS)** to establish a secure connection to an online mail service like Gmail.
4. If the server requires authentication, select the **Server requires authentication** check box and then type the username and password details in the boxes provided.
5. Click the **Test SMTP** button to ensure that the details are correct.

6. If successful, click **OK**.

To enable a report:

1. Select the report name in the left-hand pane and then click the **Configure** button in the toolbar. You can also double-click the report entry.
2. Select the **Enable this report** check box.
3. Supply the required Report Configuration settings. You can enter multiple email addresses in the **To** box by separating them with commas.



Note: The **BillingReport.csv** file is automatically attached to the Licence Report and includes the Storage Platform licence information, specified per group.

4. In the Report SyncSchedule area, specify when you would like to email the reports by entering a date in the box provided or by selecting a particular email frequency.
5. Use the **Email this report now** button to send the report manually (you may wish to do this to verify that all settings are correct or if you only want to run the report once).



Tip: The Storage Platform Console Diagnostics area will display the necessary logging information.

Backing up/restoring a ReportServer database

By default, the ReportServer database is not backed up with the AccountServer database. In order to back up the ReportServer database to the SS and Slave AS together with the AccountServer database, create the following **AccountServer.Custom.config** file in the SP installation folder (add the parameter between the `<appSettings>` tags if the file already exists):

```
<?xml version="1.0" encoding="utf-8" ?>
<appSettings>
    <add key="BackupReportDb" value="true" />
</appSettings>
```

Restart the AS for the change to take effect. Keep in mind that the ReportServer database is usually significantly larger than the AccountServer database so will take longer to back up and requires more space in the SS and Slave AS.



Note: The **AccountServer.Custom.config** file needs to be applied to both the Master and Slave AccountServers. If the setting is not applied to the Slave, error messages may be encountered.

The ReportServer database will be restored when you restore the AccountServer database

9: User Access Management

User Access Management enables the Backup Administrator to create Storage Platform Access Users, Groups and Roles. These Roles can then be assigned to Backup Groups in the Storage Platform Console's Account Management view. When Access Users connect to the SP Console, they will only see the views and options that they are allowed to manage. This enables you to provide the same application to many different types of users. E.g. Your support staff, helpdesk and financial department.



Note:

- *User Access Management needs to be configured before you can configure access to Backup Groups in the Account Management pane.*
- *The default administrative account name in the Storage Platform Console is **admin** with the master password as specified during the Storage Platform installation.*



Warning: *As the admin user, you have full access to all options and settings. Please be careful when sharing the admin password. You are advised to create separate administrative Access Users for your support engineers, to ensure that changes to the Storage Platform can be tracked and audited.*





User Access Management view

In the User Access Management view, you can administer the following:

- Access Users
- Access Groups
- Roles

For more information on managing each of these components, see "Access Users", "Access Groups", and "Roles" below.

User Access Management view icon legend

Icon	Location	Description
	User Access Management tree	Access Users/Access Groups/Roles node
	Access Users work area	User
	Access Groups work area	Group
	Roles work area	Role

Access Users

In the SP Console, you can manage Access Users as follows:

- Add new Access Users
- Edit existing Access Users' rights
- Delete Access Users

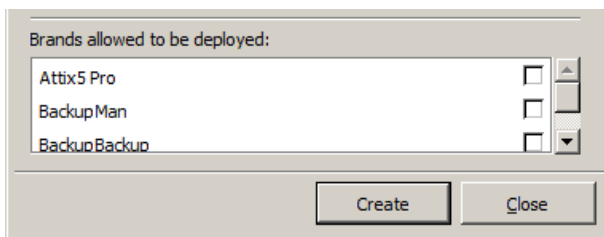
To add a new Access User:

1. Click **User Access Management** in the view selector.
2. Select **Access Users** in the User Access Management tree.
3. On the **User Access** menu, click **New Access User**. Alternatively, click the **New User** button on the toolbar.
4. In the **New Access User** dialog box that appears, specify the required Access User credentials.
5. Select the **Admin user** check box if you are creating an admin user.



Note: Admin users have full access to all Storage Platform Console views and all brands on the Storage Platform.

6. Select which brands the user should be able to deploy. The brands available depend on the Backup Client update packs installed on the Storage Platform. If only one update pack is installed, you will not be able to assign multiple brands to that user. He will only be able to deploy the brand which is included in that update pack. For more information on deployments, see *Deployment Wizard* in Chapter 6, "Account Management".



Note:

- If the SP Console is open while Backup Client update packs are installed on your SP, the brands that were installed will not be immediately available for selection. To make them available, navigate to the **Storage Platform Configuration** view, right-click the **AccountServer** node, point to **Advanced** and click **Update Licence Info**. Then disconnect and reconnect to your SP.
- Access to the LicenceServer is required to specify which brands a user should be able to deploy.

7. Click **Create** to add the user.

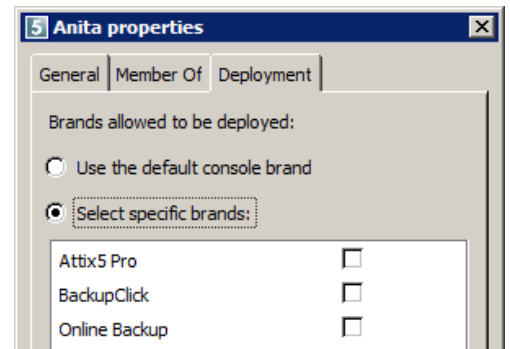
To modify the properties of an existing user:

1. Select **Access Users** in the User Access Management tree.
2. Select a user and click the **Configure** button on the toolbar. Alternatively, right-click a user and click **Configure**.
3. In the **User properties** dialog box that appears, modify the information as required, and then click **OK**.



Note:

- The **Member Of** tab enables you to add the user to an Access Group. Groups may also be added or removed from this tab.
- The **Deployment** tab allows you to specify which brands the user can deploy. This requires access to the LicenceServer.



To delete a user:

1. Select **Access Users** in the User Access Management tree.
2. Select the user name in the right-hand pane.
3. On the **User Access** menu, click **Delete Access User**. Alternatively, click **Delete User** on the toolbar.
4. In the confirmation dialog box that appears, click **Yes**.

Access Groups

Access Management Groups are useful if there are multiple users supporting multiple Groups. They enable you to add all Access Users to a particular Access Group and then assign the applicable Role to the Access Group, rather than assigning the same Role to multiple users.

You can use the SP Console to manage Access Groups as follows:

- **Add Access Groups**
- **Assign Access Users to Access Groups**
- **Delete Access Groups**

To add an Access Group:

1. In the User Access Management tree, click **Access Groups**.
2. On the **Access Groups** menu, click **New Access Group**. Alternatively, click the **New Group** button on the main toolbar or right click **Access Groups**, and then click **New Access Group** on the shortcut menu that appears.

3. In the **New Access Group** dialog box that appears, type an Access Group name in the **Group name** box.
4. At this point, you can click the **Create** button to create the Access Group without assigning any members yet. Alternatively, you can click the **Add** button, select users to add to the Group, click **OK** to close the **Select Users** dialog box, and then click **Create** to create the Access Group.

To assign Access Users to an Access Group:

1. Ensure that **Access Groups** is selected in the User Access Management tree.
2. On the **Access Groups** menu, click **Configure**. Alternatively, double-click the Access Group name in the work area or click the Access Group name and then click the **Configure** button or right-click the Access Group name, and then click **Configure** on the shortcut menu that appears.
3. In the properties dialog box that appears, click the **Add** button.
4. In the **Select Users** dialog box that appears, select the users you wish to add to the Group.
5. Click **OK** to close the **Select Users** dialog box.
6. Click **OK** to close the properties dialog box and save your changes.

The selected Access Users are now added to the Access Group.

To delete an Access Group:

1. Ensure that **Access Groups** is selected in the User Access Management tree.
2. Click the Access Group name in the work area.
3. On the **Access Groups** menu, click **Delete Access Groups**. Alternatively, click the **Delete Group** button on the toolbar or right-click the Access Group name and then click **Delete Access Group** on the shortcut menu that appears.
4. In the confirmation dialog box that appears, click **Yes**.

Roles

Two predefined Roles are included in the Storage Platform Console: Group Admin and View Only.

Group Admin

Group Admin enables the Access User to administer the Backup Group it has been allocated to with general Group permissions enabled. The Group Admin role also provides access to the Activity area and Enterprise Reports (if installed).



Note: Important additional information.

- Remote Management is enabled by default in the Group Admin role. To disable the feature, remove the **SE_Rights** from the role. If you connect using the standard Remote username and password, the **SE_Rights** are ignored – you must use your Admin Account in order to limit Remote Management rights.
- Remote Management is not applicable to ESE Backup Clients.

View Only

Access Users with the View Only role can access the Account Management view, which enables them to view all Backup Accounts in the Backup Group, but they cannot modify any settings. You can manage Roles as follows:

- Create new roles
- Modify/Configure roles
- View rights allocated to a role
- Copy roles to use as templates
- Delete roles

To create a new role:

1. In the User Access Management tree, click **Roles**.
2. On the **Roles** menu, click **New Role**. Alternatively, click the **New Role** button on the main toolbar or right-click the **Roles** node, and then click **New Role** on the shortcut menu that appears.
3. In the **New Role** dialog box that appears, type a name for the role in the **Name** box.
4. Type a description of the role in the **Description** box.
5. In the Rights area, select the check boxes next to the rights you wish to grant assigned Access Users.
6. Click the **Navigation Panes** tab and select the views you wish to grant assigned Access Users.



Note: All allowed panes are filtered to only display the Backup Groups/Accounts that the Access Users are allowed to see.



Tip:

- You can use the Select All button to grant Access Users all rights.
- You can use the Select None button to clear all selections, enabling you to start the selection process anew.
- You can click the Show Advanced Rights button to display additional rights only required for use by advanced users. These entries (marked in red) are not used by the Storage Platform Console but are available for XML calls to the Storage Platform.

7. Click **OK**.

The new role will be added to the Roles list in the work area. You can configure, copy or delete it at any time, using the methods described below.

To modify/configure a role:

1. Click the role name in the Roles list.
2. On the **Roles** menu, click **Configure**. Alternatively, click the **Configure** button on the toolbar or right-click the role name and then click **Configure** on the shortcut menu that appears.
3. In the properties dialog box that appears, modify/configure the role as desired.
4. Click **OK**.

To view rights allocated to a role:

1. Click the role name in the Roles list.
2. On the **Roles** menu, click **Configure**. Alternatively, click the **Configure** button on the toolbar or right-click the role name and then click **Configure** on the shortcut menu that appears. In the Rights area of the properties dialog box that appears, all rights allocated to the role are displayed as selected.
3. Click the **Navigation Pane** tab to view the display rights allocated to the role.

To copy a role for use as a template for additional roles:

1. Click the role name in the Roles list.
2. On the **Roles** menu, click **Copy Role**. Alternatively, right-click the role name in the work area and then click **Copy Role** on the shortcut menu.
3. In the **Copy Role** dialog box that appears, type a unique name for the role in the box provided.
4. Click **OK**.

A copy of the original role will be saved with the new name and listed in the Roles list.

To delete a role:

1. Click the role name in the Roles list.
2. On the **Roles** menu, click **Delete Role**. Alternatively, right-click the role name in the work area and then click **Delete Role** on the shortcut menu.
3. In the confirmation dialog box that appears, click **Yes**.

To assign roles to Access Users or Access Groups:

Roles are assigned to Access Users/Groups by configuring the appropriate Backup Group's Permissions tab. See *Permissions tab* in Chapter 6, "Account Management".