

SnapManager[®] 7.1 for Microsoft[®] SharePoint[®]

Job Monitor User's Guide

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Chapter 1: Overview

SnapManager for SharePoint is an enterprise-strength backup, recovery, and data management solution for SharePoint Foundation 2010 and SharePoint Server 2010 (all current and future service packs), as well as SharePoint Foundation 2013 and SharePoint Server 2013.

Operating on NetApp's latest distributed software platform, SnapManager for SharePoint is accessible from anywhere in the network through Internet Explorer® (other browsers are supported), and can monitor multiple SharePoint environments across a network. SnapManager for SharePoint Manager's main features include the following:

- The ability to centrally manage SharePoint backup and recovery jobs including scheduling, monitoring, reporting (logging and e-mail notifications), user account management, and software Agent management across multiple SharePoint farms from a single accessible-from-anywhere Web interface
- Fast backup speeds leveraging NetApp Snapshot backups, as well as real-time granular restore of items, item versions, lists, libraries, sites, and site collections directly onto the production server or an alternate location
- Backup coverage of all SharePoint 2010 and 2013 databases
- Backup of SharePoint search index files
- Backup of various SharePoint component settings including SharePoint and third-party solutions, IIS settings on Web front-end servers, SharePoint Global Search settings, and InfoPath Forms Services
- SnapMirror replication for backups of SharePoint databases and search indexes, Storage Manager BLOB data and Connector BLOB data, and verification of SnapMirror destination targets
- SnapVault data set backup for backups of: SharePoint databases and search indexes, Storage Manager BLOB data and Connector BLOB data, and verification of SnapVault targets
- Configure multiple schedules for different restore granularity levels in a single backup plan
- Separately schedule verification jobs apart from backup or restore jobs
- Separately schedule granular indexing jobs apart from backup jobs
- Ability to browse and restore individual items from backup directly without generating an index at backup time
- Different retention settings for the same backup components in multiple plans
- Extend contents from the primary SQL content database storage to more affordable file system based locations (for example, CIFS devices) leveraging RBS
- Archiving and end-user-initiated archiving can delete historical contents (from items to site collections), or move them based on fully-customizable business rules or an on-demand basis with tiered storage management and the support of backup and recovery

- Connector can attach any NetApp CIFS Share to SharePoint, taking advantage of all SharePoint content management and presentation features without any ingestion of content into the SharePoint content database
- Integration with NetApp SnapLock technology
- Integration with NetApp ASUP system for streamlined support
- Integration with SCOM (Microsoft System Center Operations Manager) event log
- Support to backup and restore FAST Search Server Farms

In addition, SnapManager for SharePoint offers the option to evaluate various DocAve products for 90 days, including Migration, Granular Backup and Restore, Administration, Compliance products, and Report Center.

Chapter 2: Job Monitor

Job Monitor allows you to view the statuses or details of jobs, to download reports, and to manage all jobs from a central interface.

Job Monitor is also integrated into other SnapManager for SharePoint products, which enables you to manage jobs from within the jobs' module interface with additional features specific to the product itself. These additional features are also available in the stand-alone Job Monitor module.

Before You Begin

Refer to the sections for system and farm requirements that must be in place prior to installing and using SnapManager for SharePoint Job Monitor.

Configuration

In order to use SnapManager for SharePoint Job Monitor, the SnapManager for SharePoint platform must be installed and configured properly on your farm. Job Monitor will not function without SnapManager for SharePoint.

Agents

SnapManager for SharePoint Agents are responsible for running SnapManager for SharePoint jobs and interacting with the SharePoint object model. For more information on SnapManager for SharePoint Agents, refer to the *SnapManager for SharePoint Installation Guide*.

Getting Started

Refer to the sections below for important information on getting started with Job Monitor, including launching the module, understanding the interface, configuring your view, and searching for jobs.

Launching Job Monitor

To launch Job Monitor and access its functionality, follow the instructions below:

1. Log into SnapManager for SharePoint. If you are already in the software, click the **Platform** tab. The **Platform** tab displays all modules on the left side of the window.
2. From the **Platform** tab, click **Job Monitor** to launch the module.
3. Alternatively, you can click the **Job Monitor** icon () from anywhere within the SnapManager for SharePoint software to launch Job Monitor.

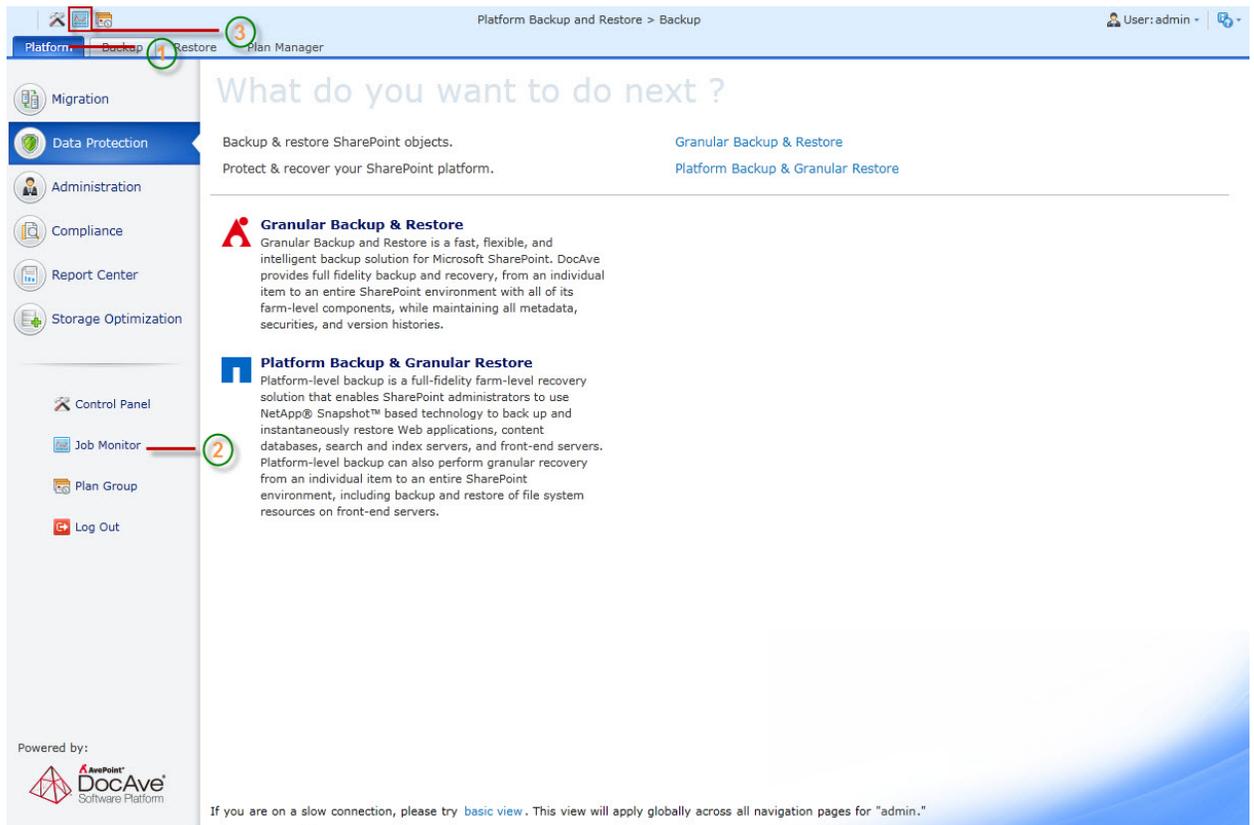


Figure 1: SnapManager for SharePoint launch window

Understanding Job Monitor

Job Monitor provides you with a number of ways to customize the way your jobs are displayed so that you can more efficiently manage them. The following two sections cover the different viewing options.

Job Monitor Interface

The interface in Job Monitor contains the following four areas:

1. **Tabs** – Switch between the Job Monitor and Scheduled Job Monitor interface.
2. **Ribbon** – Toolbar where you can customize the view, perform actions on selected jobs, and configure report location settings.
3. **Search** – Search tool for filtering the displayed jobs.
4. **Viewing pane** – List of jobs displayed according to the filters you configure.

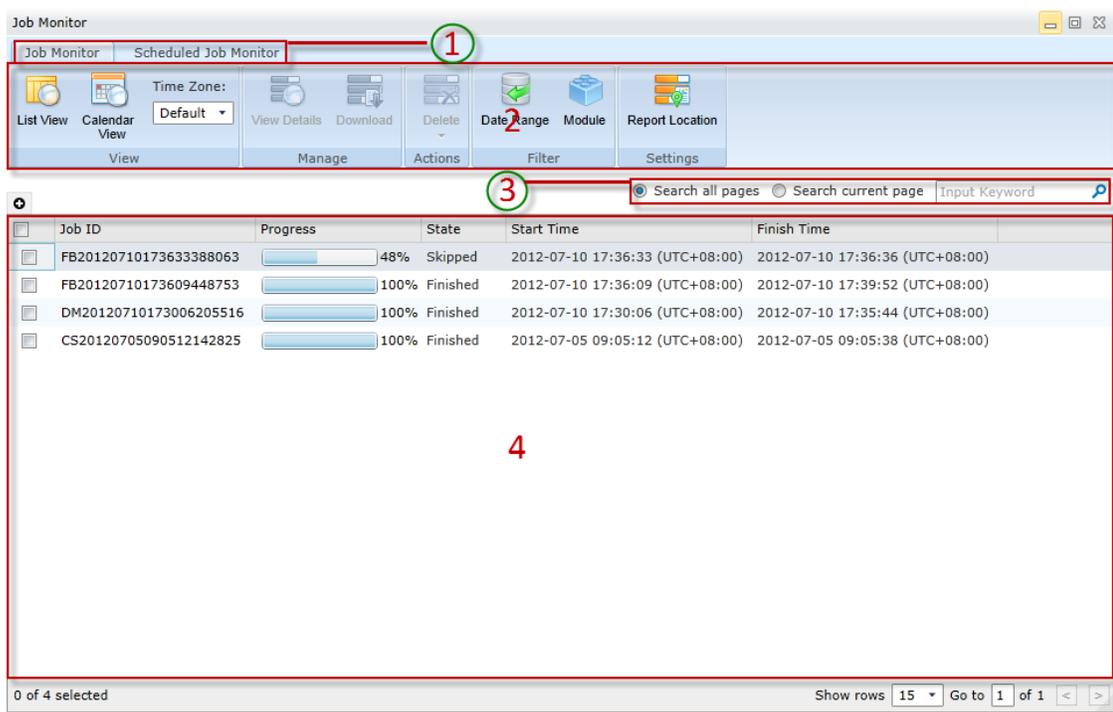


Figure 2: Job Monitor user interface

Job Monitor vs. Scheduled Job Monitor

The Job Monitor module interface contains two tabs:

- **Job Monitor** – Allows you to access all of the current and previous jobs.
- **Scheduled Job Monitor** – Allows you to exclusively access jobs that are scheduled to run in the future.

***Note:** Differentiate between scheduled jobs (jobs scheduled to run in the future) and recurring jobs. Scheduled jobs will only show up on the **Scheduled Job Monitor** tab. Recurring jobs will show up on both tabs.

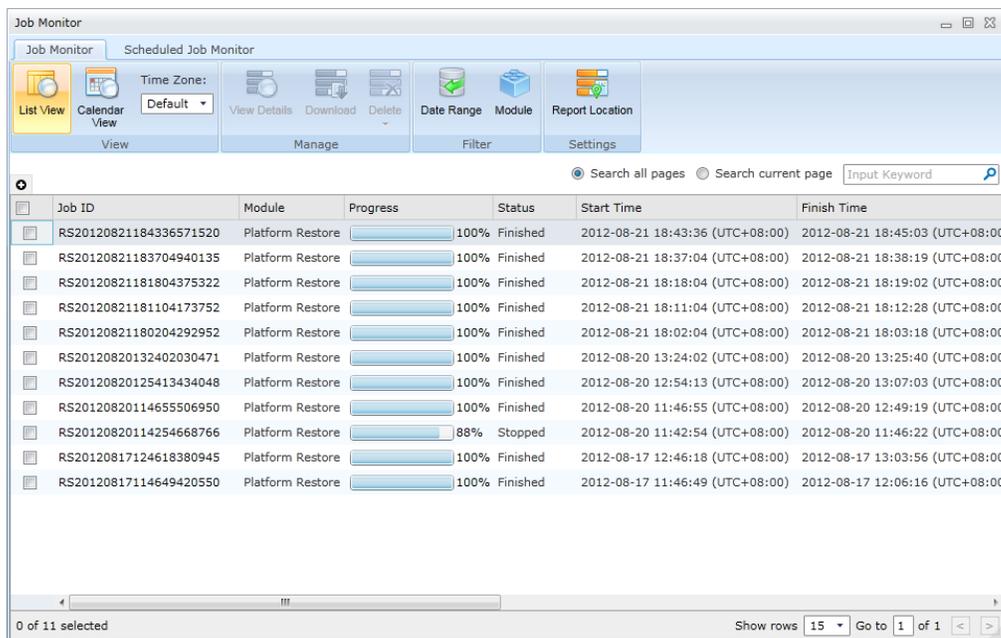
Configuring the Viewing Pane

In both the **Job Monitor** and **Scheduled Job Monitor** tabs, there is a **View** toolbar and a **Filter** toolbar on the ribbon with further configurable options to help you more efficiently manage your current and previous jobs.

The View Toolbar

This toolbar allows you to choose to have your jobs displayed in List View or Calendar View:

- **List View** – Displays your jobs in a table. You can add or remove a column(s) to customize your view by clicking the **+** icon. Select the desired column(s) for this view by checking the checkbox(es) next to its name in the drop-down menu. Click **OK** to save your choices, or click **Cancel** to close the drop-down menu without saving your choices.



The screenshot shows the Job Monitor interface with the List View toolbar and a table of jobs. The toolbar includes options for View (List View, Calendar View), Manage (View Details, Download, Delete), Filter (Date Range, Module), and Settings (Report Location). The table displays the following data:

Job ID	Module	Progress	Status	Start Time	Finish Time
RS20120821184336571520	Platform Restore	100%	Finished	2012-08-21 18:43:36 (UTC+08:00)	2012-08-21 18:45:03 (UTC+08:00)
RS20120821183704940135	Platform Restore	100%	Finished	2012-08-21 18:37:04 (UTC+08:00)	2012-08-21 18:38:19 (UTC+08:00)
RS20120821181804375322	Platform Restore	100%	Finished	2012-08-21 18:18:04 (UTC+08:00)	2012-08-21 18:19:02 (UTC+08:00)
RS20120821181104173752	Platform Restore	100%	Finished	2012-08-21 18:11:04 (UTC+08:00)	2012-08-21 18:12:28 (UTC+08:00)
RS20120821180204292952	Platform Restore	100%	Finished	2012-08-21 18:02:04 (UTC+08:00)	2012-08-21 18:03:18 (UTC+08:00)
RS20120820132402030471	Platform Restore	100%	Finished	2012-08-20 13:24:02 (UTC+08:00)	2012-08-20 13:25:40 (UTC+08:00)
RS20120820125413434048	Platform Restore	100%	Finished	2012-08-20 12:54:13 (UTC+08:00)	2012-08-20 13:07:03 (UTC+08:00)
RS20120820114655506950	Platform Restore	100%	Finished	2012-08-20 11:46:55 (UTC+08:00)	2012-08-20 12:49:19 (UTC+08:00)
RS20120820114254668766	Platform Restore	88%	Stopped	2012-08-20 11:42:54 (UTC+08:00)	2012-08-20 11:46:22 (UTC+08:00)
RS20120817124618380945	Platform Restore	100%	Finished	2012-08-17 12:46:18 (UTC+08:00)	2012-08-17 13:03:56 (UTC+08:00)
RS20120817114649420550	Platform Restore	100%	Finished	2012-08-17 11:46:49 (UTC+08:00)	2012-08-17 12:06:16 (UTC+08:00)

Figure 3: List view

- **Calendar View** – Displays your jobs in a calendar. You can configure Calendar View to display in **Day**, **Week**, or **Month** format by clicking the respective button in the upper right-hand corner. To see detailed information about a job, place your mouse cursor over its time slot.

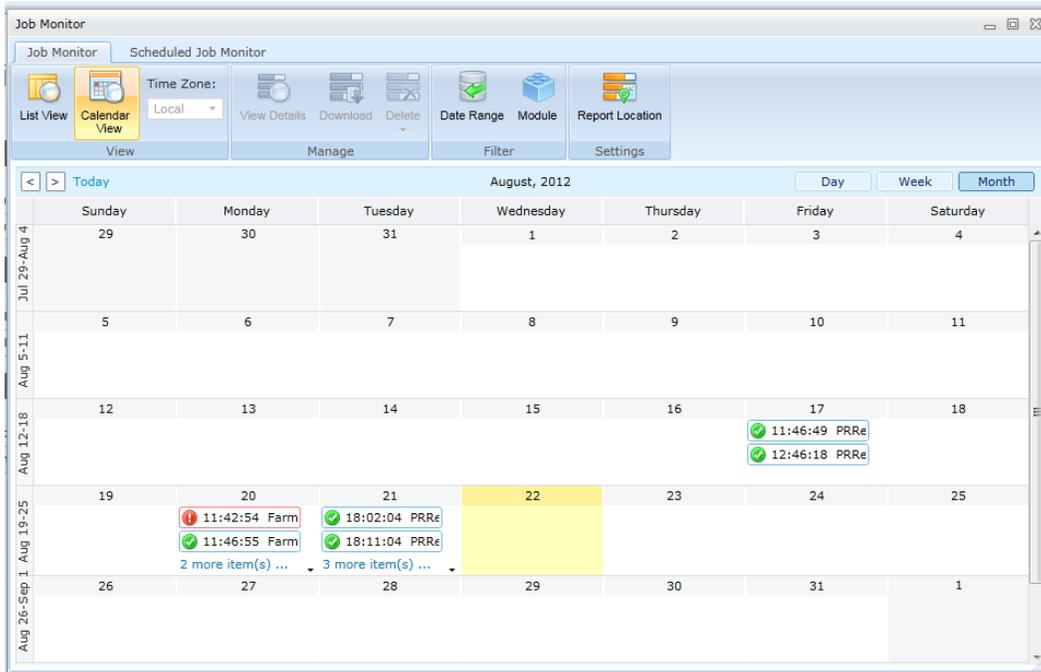


Figure 4: Calendar view

You can also configure the **Time Zone** in this toolbar by specifying one of the options below to display in the job information.

- **Default** – Displays the time zone of the machine where the Control Service is installed. In the **Scheduled Job Monitor** tab, the default time zone is based on the time zone configured for each schedule.
- **Local** – Displays the time zone that the Internet Explorer (IE) browser used to access SnapManager for SharePoint.

By default, the time zone of the job information is set to **Default**. Note that in Calendar View, the time zone is set to Local and cannot be altered. To change the time zone, click the drop-down menu, and select **Local**.

The Filter Toolbar

This toolbar allows you to filter the jobs listed in the viewing pane by Date Range or Module.

- **Date Range** – Allows you to limit the jobs displayed by specifying a time frame.
- **Module** – Allows you to limit the jobs displayed by specifying the module where the jobs are run.

Searching Jobs

Job Monitor also allows you to search for jobs to further customize which jobs are displayed to you. The search interface is located under the toolbar ribbon. Select the corresponding radio button to either **Search all pages** or **Search current page**. Placing your cursor over the Search text box will bring up a tooltip informing you of the searchable parameters.

***Note:** The search function is not case sensitive.

Since the Job ID includes the start time for the job, you can search for a job by start time. Enter the time as a numerical string in the text box, then click  (for example: search for 2011-01-01 17:05:10 by typing 20110101170510 in the search text box).

Managing Jobs

The **Job Monitor** tab and the **Scheduled Job Monitor** tab offer different sets of features more suitable for managing the different types of jobs.

***Note:** Features that are not supported for the selected job of the specified product are greyed out and not clickable.

Operations in the Job Monitor Tab

The **Job Monitor** tab provides you with a number of tools that allow you to perform actions to jobs you are currently running or have run in the past.

***Note:** The tools explained here only cover the general ones in Job Monitor. To access the tools that are specific to other modules, you can access the Integrated Job Monitor in each of the products. You can also access Job Monitor from the welcome page, click the **Module** button, select the specified module by checking the appropriate checkbox, and then choose from jobs run by that module. For details about tools specific to each module, see the Integrated Job Monitor section of this guide.

The Manage Toolbar

This toolbar provides you with the following functionality:

- **View Details** – Allows you to view a job report of the selected job. Select the job by checking the corresponding checkbox. Click **View Details** on the ribbon. The **Job Details** tab appears with the job report displayed in the viewing pane with the **Summary** tab selected. The **Summary** tab displays general information about the job. For more in-depth information, click the **Details** tab in the viewing pane. Click **Download** to download the job report. Select **TXT**, **CSV** or **XLS** as the format for the report, then select to download the **Current columns** or **All columns** from the Details tab, and then click **OK** to download the report, or **Cancel** to return to the Job Details tab.

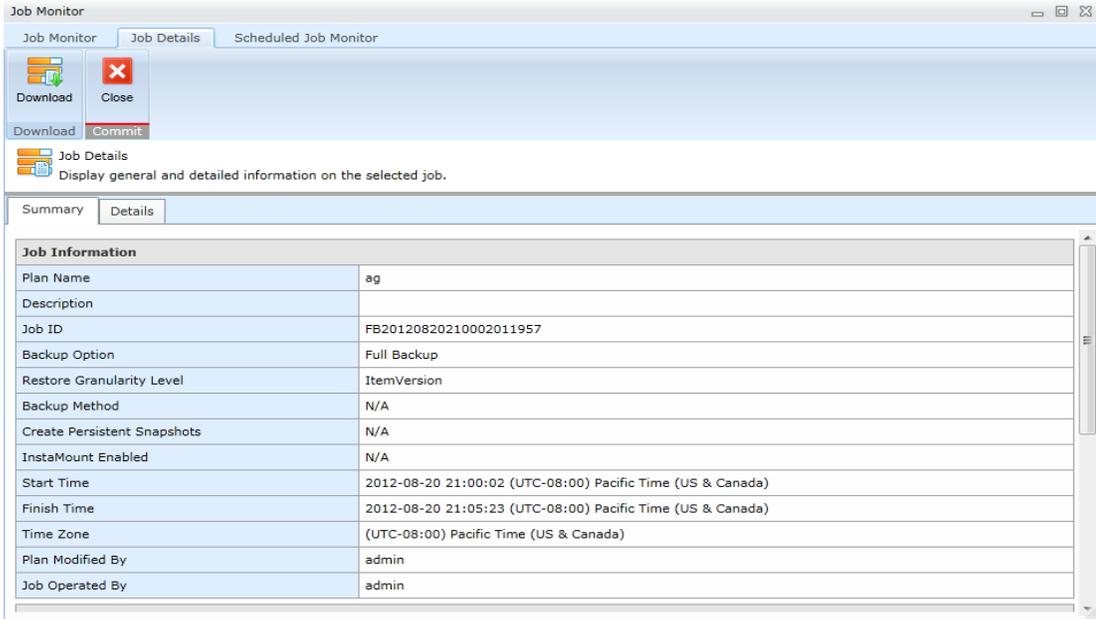


Figure 5: Viewing job details

- Download** – Allows you to download the job report of the selected job(s) to a specified location. You have the option to set the **Report Format** to download in TXT, CSV or XLS format. Here you can only choose to download **All columns** from the Details tab.

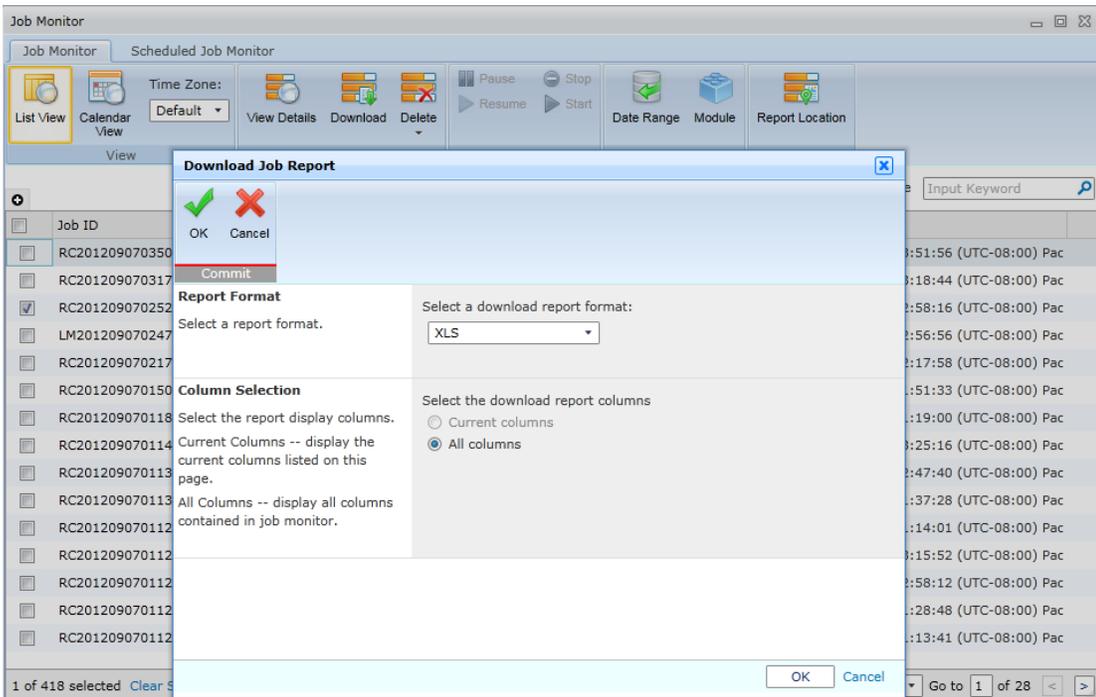


Figure 6: Downloading a job report

***Note:** Prior to downloading the job report, make sure the Internet Explorer (IE) download settings are configured properly. You can configure the download settings for IE by following the steps below.

1. Navigate to **Internet Explorer > Tools > Internet Options**.
2. Switch to the **Security** tab and select a zone.
3. Click the **Custom level** button inside the **Security level for this zone** field.
4. Scroll down to the **Downloads** setting.
5. Change the detailed settings according to the screenshot below.

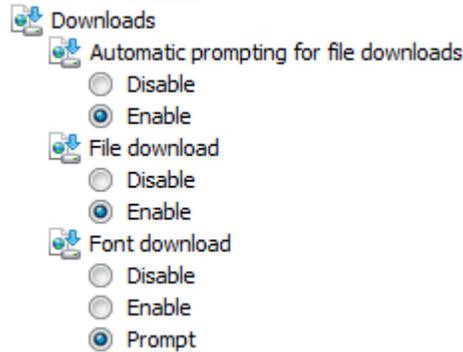


Figure 7: IE security settings

The Actions Toolbar

This toolbar provides you with the following possible actions for your selected job(s):

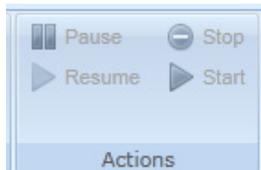


Figure 8: The Actions toolbar

- **Stop** – Stops the selected in-progress job immediately. The job status will change to **Stopped**, but the job information will be retained, as well as any data aggregated by the job.
***Note:** In order to run a stopped job again, you must launch the respective module you used to run that job. Click the **Plan Manager** tab, and then select the plan by checking the checkbox and click **Run Now**. When you run the same job again, it will be considered a new job, so the previous data is retained.
- **Delete** – Deletes job information without sending a notification to anyone. Click **Delete**, and then select **Delete Job** from the drop-down menu.
***Note:** To delete platform data along with the selected stopped or failed jobs, select a backup job and click **Delete**. Then, select **Delete without Notification** from the drop-down menu. In the pop-up window, select the **Delete backup data** checkbox to delete the backup data and the selected job.

- **Pause** – Pause the currently running job when required.
- **Resume** – Resume the paused job and continue to run it.

The Settings Toolbar

This toolbar provides access to the Report Location tool that allows you to specify a location for storing the reports generated after running the jobs. If you do not configure this tool, the job reports will be stored in the default location (... \NetApp\SMSP7\Manager\Work).

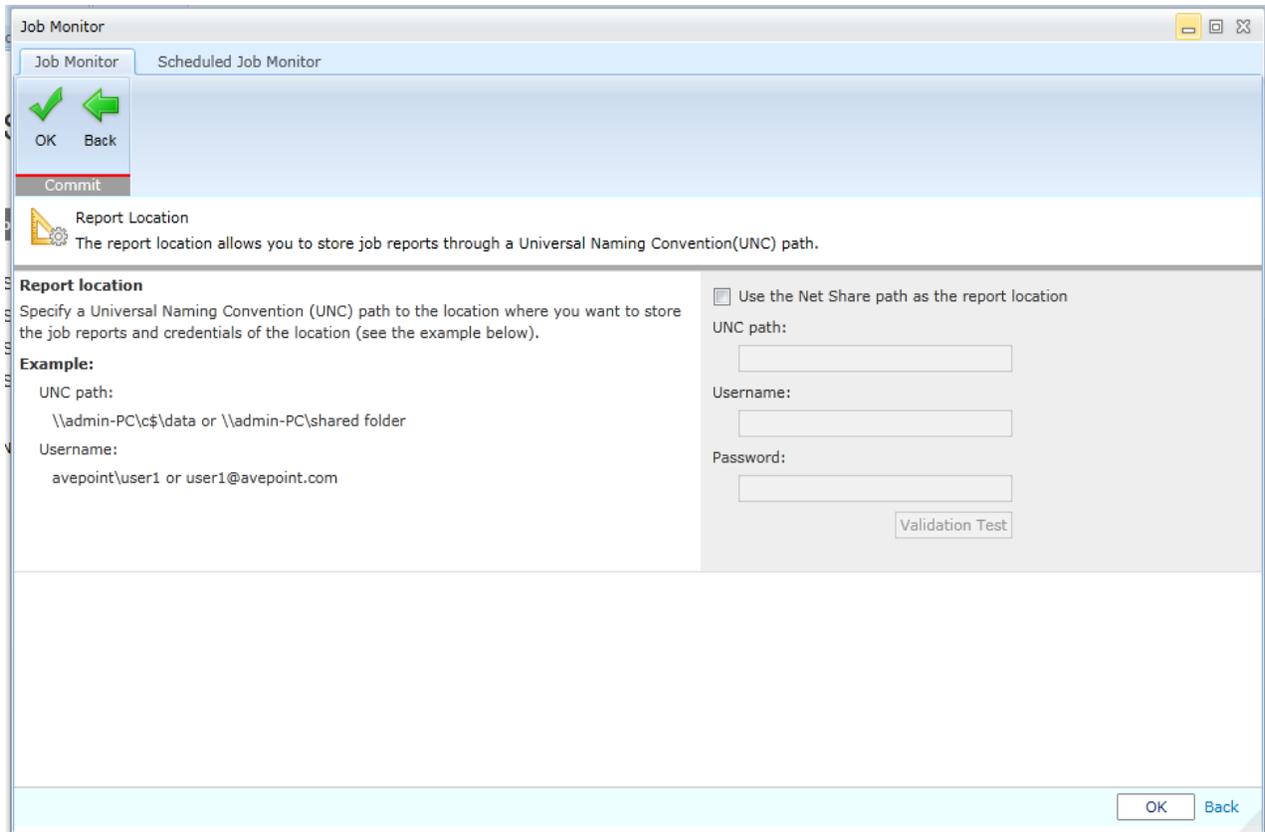


Figure 9: Specifying a report location

To store the job reports on a network share (for example, a CIFS Share):

1. Check the checkbox next to **Use the Net Share path as the report location**.
2. Enter the **UNC Path**.
3. Enter the **Username**.
4. Enter the **Password**.
5. Click **OK**.

Operations in the Scheduled Job Monitor Tab

The **Scheduled Job Monitor** tab provides you with two toolbars that allow you to perform actions to jobs that you have scheduled to run in the future. The following sections explain what these tools do in detail.

***Note:** The tools explained here only cover those in the main Job Monitor module. For details about tools specific to Job Monitor that are integrated into other modules, see the Integrated Job Monitor section of this guide.

The Actions Toolbar

This toolbar provides the following actions for a scheduled job(s):

- **Enable** – If the status of the selected job(s) is disabled, you will have the option to click this button to enable it.
- **Disable** – If the status of the selected job(s) is enabled, you will have the option to click this button to disable it.

The Filter Toolbar

This toolbar provides the following filter options for a scheduled job(s):

- **Date Range** – Allows you to limit the jobs displayed by specifying a time frame.
- **Module** – Allows you to limit the jobs displayed by specifying the module where the jobs are run.

Integrated Job Monitor

While Job Monitor is able to access and organize jobs across different modules, it is also integrated into the modules in order to provide easy access and additional functionalities tailored to each product. When Job Monitor is accessed from the interface of a given module, it only displays jobs executed by that module and allows you to access related jobs without leaving your current interface. The integrated Job Monitor modules contain all of the same functionalities of the stand-alone Job Monitor module. The following modules include integrated Job Monitor:

Product	Module
Data Protection	Platform Backup & Restore
Storage Optimization	Real-Time Storage Manager
	Schedule Storage Manager
	Connector
	Archive Manager

Additional Job Monitor Features in Platform Backup and Restore

In Job Monitor, certain Platform backup jobs in Platform Backup and Restore allow you to configure maintenance settings after the job has run. Select an appropriate Platform backup job, and then click **Maintenance** on the ribbon. The **Maintenance** tab opens, allowing you to configure the corresponding maintenance settings.

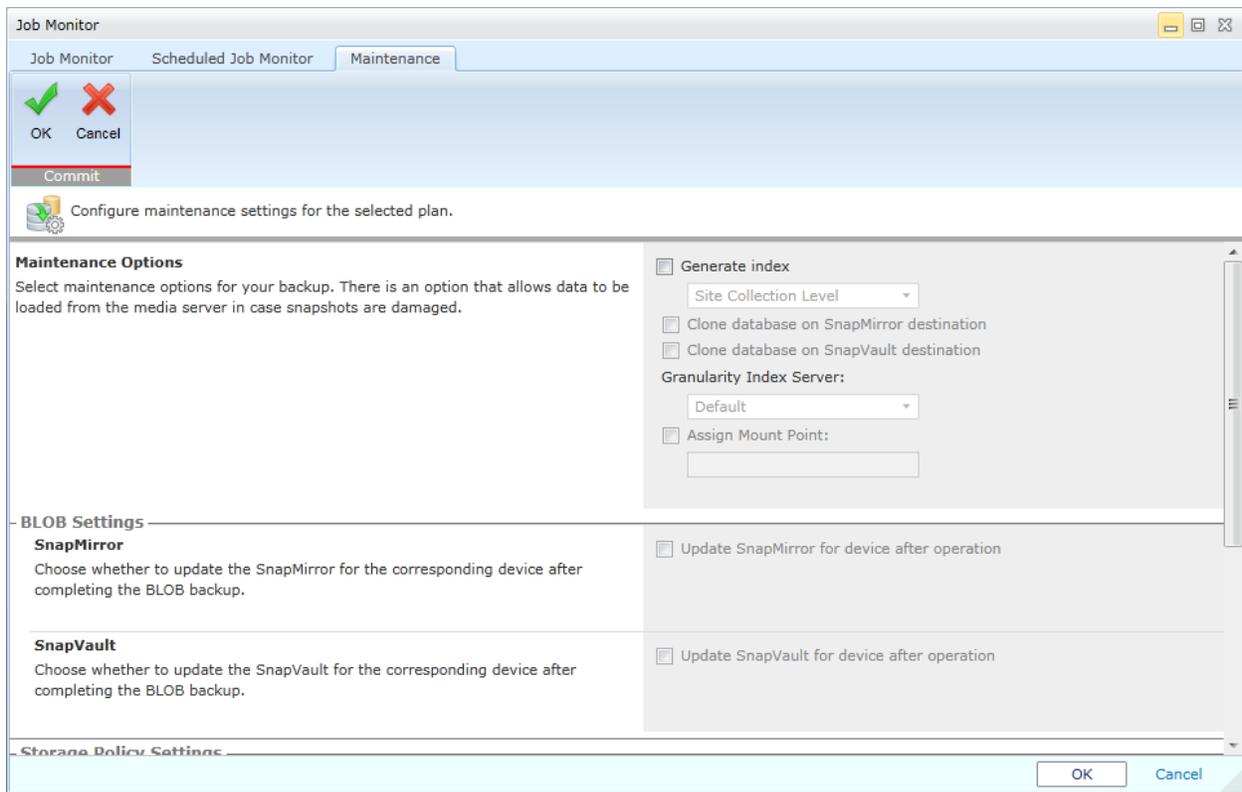


Figure 10: The Maintenance tab

When you are finished configuring settings in the **Maintenance** tab, click **OK** to save the configurations, or click **Cancel** to close the **Maintenance** tab without saving any changes.

Chapter 3: Job ID Codes

Refer to the table below for an explanation of the job ID codes that display in Job Monitor. Note that **xxxxx** represents the date-time stamp of the job.

Module	Job ID	Job Type/Module	Comment
Data Protection	FBxxxxx	Platform Backup	
	FBxxxxx(Test Run)	Test Run	
	RSxxxxx	Platform Restore	
	PMxxxxx	Platform Maintenance Manager	
	DRPxxxxx	Retention	DRP-Data Retention Plan
	PFRxxxxx	Farm Rebuild	
	PIMxxxxx	Platform Index Migration	
Storage Manager	ESxxxxx	Scheduled Storage Manager	
	CSxxxxx	Convert Stub to Content	
	SRxxxxx	Clean UP Orphan Blobs	SR-Sync Retention
Archive Manager	ARxxxxxS	Scan	An Archive Manager job always contains these three child jobs.
	ARxxxxxAO	Archive	
	ARxxxxxM0	Merge Index	
	Alxxxxx	Archiver Full Text Index	

	EAxxxxxA	End User Archiver	The same as running an Archive Manager job.
	EAxxxxxM	End User Archiver Merge Index	
	ERxxxxx	End User Restore	
	RSxxxxx	Archiver Restore	
	RTxxxxx	Archiver Retention	
Connector	CSxxxxx	Convert Stub To Content	
	CRxxxxx	Connector	
Data Manager	DIxxxxx	Data Import	<p>Includes the following jobs:</p> <ul style="list-style-type: none"> • Import Platform Backup Data • Import Archiver Data • Import Stubs and BLOB Data • Convert EBS stubs to RBS stubs
Log Manager	LMxxxxx	Log Manager	

Appendix A: Accessing Hot Key Mode

In order to work faster and improve your productivity, SnapManager for SharePoint supports Hot Key mode for you to perform corresponding actions quickly by only using keyboard.

To access Hot Key mode, in the Job Monitor interface, use the key combinations of **Ctrl+Alt+Z** on the keyboard.

The following is a list of hot keys for the top level; each time you want to go back to the top level after accessing an interface of a lower level, press **Ctrl+Alt+Z** on the keyboard.

Operation Interface	Hot Key
SnapManager for SharePoint Home Page	1
NetApp Official Web site	2
Control Panel	3
Job Monitor	4
Plan Group	5

Job Monitor Page

The following table provides a list of hot keys for the functionalities on the ribbon of the Job Monitor page. For example, continue pressing **M** on your keyboard to arrive at the Module interface.

Functionality Name and Hot Key							
List View	LV						
Calendar View	CV						
Time Zone	TZ						
View Details	VD	Job Details Page	V	Download	D	OK	O
				Close	X	Cancel	C
Download	DL			OK	O		
				Cancel	C		
Pause	P						
Resume	RE						
Stop	SP						
Start	ST						
Delete	DE			Delete without Notification	D		
Date Range	DR						
Module	M						
Report Location	RL				OK	O	
					Back	B	

Schedule Job Monitor Page

To access the Schedule Job Monitor page by using hot keys from within the Job Monitor interface, press **Ctrl+Alt+Z** on your keyboard to access the hot key mode, and then press **S** on the keyboard to enter the Schedule Job Monitor page.

The following table provides a list of hot keys for the functionalities on the ribbon of the Schedule Job Monitor page. For example, continue pressing **L** and you will be brought to the List View interface.

Functionality Name and Hot Key	
List View	L
Calendar View	C
Time Zone	TZ
Enable	E
Disable	D
Date Range	R
Module	M

Special Hot Keys

The following product has special hot keys that are specific to its interface. Review the following section for details.

Platform Backup and Restore

To access the Job Monitor page by using hot keys from within the Job Monitor interface, select a Platform Backup job and press **Ctrl+Alt+Z** on your keyboard to access the hot key mode. There will be an additional button(s) on the ribbon.

The following table provides a list of hot keys for the functionalities on the ribbon of the Job Monitor page. For example, continue pressing **N** to arrive at the Maintenance interface.

Functionality Name and Hot Key					
Maintenance	N	Maintenance Page	N	Finish	F
				Cancel	C

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