

## Defragmenting the Database

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Tivoli

IBM

IBM Security SiteProtector System v2.0 SP8.1

Defragmenting the database



This is a self-running demonstration that shows you how to complete a task.  
Controls are available at the bottom of the screen.

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### Objectives

When you complete this module, you will be able to:

- Configure the frequency that the SiteProtector Database is defragmented
- Configure the date and time when the defragment job runs
- Run a defragment job manually

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### Defragmenting the database

- Defragmenting the SiteProtector Database reduces index fragmentation, resulting in better performance
- The defragment job runs while SiteProtector is in use and does not affect SiteProtector performance
- You cannot disable the defragment job or change the criteria associated with the job

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The screenshot shows the SiteProtector Agent View interface. The left sidebar displays a tree view with 'My Sites' expanded to 'localhost', which contains 'IBM-ISS', 'Network IPS', and 'Ungrouped Assets'. The main area is titled 'Agent View' and contains a table of agents. A yellow callout bubble points to the 'SiteProtector Database' row, with the text: 'In the Agent view, select the SiteProtector Database.' A purple callout bubble at the bottom left contains the text: 'This demonstration shows you how to defragment the SiteProtector Database.' The table has columns for Model, Asset, Agent Name, Health Status, and Status. The 'SiteProtector Database' row is highlighted, and its 'Health Status' is 'Warning' and 'Status' is 'Active'. Other rows include 'Event Collector', 'SiteProtector Core', 'Deployment Manager', 'Agent Manager', 'X-Press Update Server', 'SecurityFusion Module', and several physical servers (GV1000, GX4004, GX5108).

Model	Asset	Agent Name	Health Status	Status
SiteProtector Database	SITEPROTECTOR	SP Database	Warning	Active
Event Collector	SITEPROTECTOR	EventCollector_SITE...	Healthy	Active
SiteProtector Core	SITEPROTECTOR	SP Core	Healthy	Active
Deployment Manager	SITEPROTECTOR	DeploymentManager	Healthy	Active
Agent Manager	SITEPROTECTOR	AgentManager_SITE...	Healthy	Active
X-Press Update Server	SITEPROTECTOR	UpdateServer	Warning	Active
SecurityFusion Module	SITEPROTECTOR	SecurityFusionModule	Healthy	Active
GV1000	myhost	myhost	Healthy	Offline
GX4004	192.168.5.199	godzilla	Healthy	Offline
GX5108	192.168.5.200	mothra	Healthy	Offline

Find... 10 rows with 1 selected. administrator Notifications

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The screenshot shows the SiteProtector interface. A yellow callout bubble with the text "Select Object." points to the "Object" menu in the top navigation bar. The main area displays the "Agent View - Default" with a table of agents. The table has columns for Model, Asset, Agent Name, Health Status, and Status. The "SiteProtector Database" row is selected and highlighted in blue. Below the table, a status bar indicates "10 rows with 1 selected." and the user is identified as "administrator".

Model	Asset	Agent Name	Health Status	Status
SiteProtector Database	SITEPROTECTOR	SP Database	Warning	Active
Event Collector	SITEPROTECTOR	EventCollector_SITE...	Healthy	Active
SiteProtector Core	SITEPROTECTOR	SP Core	Healthy	Active
Deployment Manager	SITEPROTECTOR	DeploymentManager	Healthy	Active
Agent Manager	SITEPROTECTOR	AgentManager_SITE...	Healthy	Active
X-Press Update Server	SITEPROTECTOR	UpdateServer	Warning	Active
SecurityFusion Module	SITEPROTECTOR	SecurityFusionModule	Healthy	Active
GV1000	myhost	myhost	Healthy	Offline
GX4004	192.168.5.199	godzilla	Healthy	Offline
GX5108	192.168.5.200	mothra	Healthy	Offline

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The screenshot shows the SiteProtector console interface. A yellow callout box with the text "Select Properties." points to the "Properties" pane on the left. The main area displays a table of agents with the following data:

Asset	Agent Name	Health Status	Status
SITEPROTECTOR	SP Database	Warning	Active
SITEPROTECTOR	EventCollector_SITE...	Healthy	Active
SITEPROTECTOR	SP Core	Healthy	Active
SITEPROTECTOR	DeploymentManager	Healthy	Active
SITEPROTECTOR	AgentManager_SITE...	Healthy	Active
SITEPROTECTOR	UpdateServer	Warning	Active
SITEPROTECTOR	SecurityFusionModule	Healthy	Active
GV1000	myhost	Healthy	Offline
GX4004	192.168.5.199	Healthy	Offline
GX5108	192.168.5.200	Healthy	Offline

At the bottom of the console, it shows "10 rows with 1 selected." and "administrator" with a user icon. There is also a "Notifications" icon with a red exclamation mark.

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The screenshot shows the SiteProtector console interface. The main window displays a 'DATABASE SIZE' chart with a 'Fail Level' at 80% and a 'Warning Level' at 70%. The chart shows a sharp increase in database size starting around 3 AM, reaching the warning level by 7 AM. A yellow callout box points to the 'Database Maintenance' icon in the left sidebar, with the text 'Click Database Maintenance..'. Below the chart, there is a section for 'TempDB Database Size (MB)' with a description: 'The size of the TempDB Database file to store data that is updated during m...'. The console also shows 'Database Jobs' and 'Performance' sections, both with green checkmarks, and 'Agent Messages' with 'Event Loading' checked. The bottom status bar shows the user 'administrator' and a 'Notifications' icon.

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The screenshot shows the SiteProtector interface for configuring database maintenance. The 'Time' tab is selected, and the 'Defragment' section is highlighted with a red box. A yellow callout bubble points to the 'Frequency' dropdown menu, which is currently set to 'Weekly'. Another yellow callout bubble points to the dropdown menu, explaining the available options. A blue callout bubble at the bottom provides information about default settings based on the installation type. The interface includes a menu bar (Object, Edit, View, Action, Tools, Help), a toolbar, and a sidebar with navigation options like Health Summary, Agent Details, Database Maintenance, and Command Jobs. The status bar at the bottom shows the user is 'administrator' and there are 'Notifications'.

Select the **Time** tab.

In the Frequency field, select the frequency you want to defragment the database. The options are Never, Daily, and Weekly.

If you used the Express installation, the defragment frequency option defaults to Daily. If you used the Recommended installation, the defragment frequency defaults to Weekly.



## Defragmenting the Database

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The screenshot displays the SiteProtector application window. The title bar reads "SiteProtector" and the menu bar includes "Object", "Edit", "View", "Action", "Tools", and "Help". The toolbar contains various icons for file operations. The status bar shows "Agent : localhost : IBM-155" and "Properties : localhost : SP Data". The main content area is divided into tabs: "General", "Time", "Purge", "Advanced Purge", and "Daily Backup". The "Time" tab is active, showing the "Database Maintenance Time" section. A text box states: "The day and time specified here is the start time used by Defragment, Purge and Backup modules:". Below this, there are two radio buttons: "Eastern Standard Time" (selected) and "GMT". To the right, a callout bubble says "Select either the Eastern Standard Time or GMT option." Below the radio buttons, there are two dropdown menus: "Weekly maintenance day:" set to "Saturday" and "Maintenance time of day:" set to "20:00". Callout bubbles point to these dropdowns, stating "Select the day of the week to defragment the database." and "Select the hour to defragment the database." respectively. A "Click Save." callout bubble points to the Save icon in the toolbar. The left sidebar contains "Health Summary", "Database Maintenance", and "Command Jobs". The bottom status bar shows "Find...", "administrator", and "Notifications".



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### Defragmenting the database manually

- You should stop all Event Collectors or place SQL into Single User mode before you manually defragment the database
  - This stops events from writing to the SiteProtector Database during the job
  - If you do not, the defragment job takes an inordinate amount of time
- When the defragment job is complete, restart the issDaemon or place SQL back into Multiple User mode

For more information: <http://msdn.microsoft.com/en-us/library/ms345598.aspx>

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