

Offered by Tidal Consulting Services

Tidal™ Enterprise Adapter for IBM® Tivoli Storage Manager

Highlights

- Leverages and expands current TSM investments to create a complete enterprise solution
- Support for cross-application, cross-platform job dependencies
- Single point-of-control for enterprise-wide job scheduling through Windows or web console
- Industry leading scheduling capabilities, including exception-based management, scalability, role-based security and enhanced manageability

Key Benefits

- Leverages existing technology and expands TSM investments to create a complete enterprise solution
- Consolidates Tivoli application automation under one corporate-wide console with one staff and one set of internal procedures
- Reduces training and operational support to one application automation environment
- Provides richer, more advanced scheduling features than the native Tivoli job scheduler for greater efficiency and productivity

Key Features

- View and interact with Storage Manager processes in real-time
- Schedule a single occurrence or recurring process within Storage Manager
- Set a dependency between a Storage Manager process and a process running on another operating system such as UNIX®, Windows® NT/2000, Linux®, z/OS® and MPE/iX®
- Set a dependency between a Storage Manager process and a process running in another application such as SAP® R/3, PeopleSoft® and Oracle® E-Business Suite

IBM Tivoli Storage Manager protects your organization's data from failures and other errors by storing backup, archive, space management and bare-metal restore data, as well as compliance and disaster-recovery data. While the internal scheduler in TSM does an adequate job of managing its own processes, it is not optimized for all enterprise scheduling requirements. A significant limitation includes managing dependencies across multiple applications and platforms – critical to streamlining operations. Custom-made by Tidal Consulting Services for the unique needs of any organization, the Tidal™ Enterprise Adapter for TSM is the interface between Tidal™ Enterprise Scheduler and TSM. Together, they provide organizations with robust scheduling functionality including cross-platform, cross-application dependency support real-time interaction and centralized control.

Bring It All Under One Roof

With the Enterprise Adapter for TSM, Tidal Software provides a consolidated, enterprise-wide scheduling solution for your corporate data center that includes your backup technology. Instead of multiple applications and machines with their own schedulers or scripts, Enterprise Adapter for TSM brings all scheduling jobs under one umbrella. With the addition of Tidal Enterprise Scheduler to your TSM infrastructure, you can manage your backup schedules and maintain a centralized level of control over your data protection needs.

How It Works

The Tidal integration for TSM requires you to only install the Tidal bridge once on the TSM server and then roll out the schedules to the individual clients you wish to schedule the backups on. The internal policies, schedules and

host information defined within TSM are used to identify the specifics of each backup request initiated from Tidal Enterprise Scheduler. Upon submission of each backup request, Tidal Software monitors the execution of each request and continuously updates users with real-time status information.

The Enterprise Adapter enforces the existing security policies, user names and passwords that control the TSM jobs. The logging information produced during and after the job is available for display or file printing from within Tidal Enterprise Scheduler. Tidal Software can now monitor and manage all TSM requests and provide centralized scheduling control over every TSM server in the enterprise.

The Enterprise Adapter allows you to centrally manage TSM processing from a single point-of-control. With this technology, a scheduled backup can execute based on the completion status of other jobs running on any platform or applications supported by Tidal Software. For example, users can ensure that the right data will be correctly backed up once a critical UNIX or SAP process has completed.

Current Tidal Enterprise Scheduler customers can leverage existing TSM data backup processes by incorporating them into a true enterprise-wide scheduling solution and managing them from a single console. Additionally, the TSM application can share data with all the other strategic systems and applications in your environment.

Tidal Enterprise Adapter for IBM® Tivoli Storage Manager (TSM)

Key Features (continued)

- Schedule a Storage Manager process based on multiple types of business calendars
- View the Storage Manager flow graphically
- Display and manage Storage Manager output from a central console
- Ability to view reports and alert personnel based on various Storage Manager job statuses
- Create custom variables for ease of job creation and maintenance
- Monitor any files that are used as events to trigger a Storage Manager process
- Manage queues for all Storage Manager processes
- Centralize security administration for all Storage Manager processes
- Capture additional logging information on Storage Manager jobs
- Schedules Storage Manager backups as incremental and selective [files that you specify]
- Scheduling of backup processes on specific hosts or group of hosts
- TSM job results can be based on validation criteria

Job Real-Time Status and Workflow

Tidal's bridge is event based using asynchronous callbacks for status monitoring, so status changes are known as soon as they occur (in real-time). This helps reduce production processing time windows, because Tidal does not have to wait for a polling interval to pass before reacting to the completion of a job. Because the functionality is built in as a programmatic bridge to the Tidal Agent, it is better able to communicate log and status information in real time to the Tidal console.

Password Encryption

The password encryption feature will allow you to enter an encrypted password in the environment file instead of the raw password for protection. The encrypted password will only be decrypted during runtime of the Tivoli Storage Manager jobs by Tidal.

Environment Files

By creating environment file(s) for commonly used values that can be reused by many jobs, you can minimize the number of parameters that need to be entered in each of the TSM jobs.

Custom Variables

Create custom Tidal variables for information that is repeated or is common when defining jobs. Using custom variables greatly enhances job creation efficiency and job maintenance.

System Backups

UNIX, Windows File System, Oracle (UNIX), Oracle (Windows), SQL Server and Microsoft Exchange.

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The screenshot shows a 'Job Definition' dialog box for a TSM backup job. The title bar reads 'Job Definition - \Tivoli Backup Jobs\C15NT70SW_INCR'. The dialog has several fields: 'Job Name' is 'C15NT70SW_INCR', 'Job Class' is 'Owner', and 'Parent Group' is 'Tivoli Backup Jobs'. Below these are tabs for 'Program', 'Schedule', 'Run', 'Dependencies', 'Resources', 'Job Events', 'Options', 'Runbook', 'Notes', 'History', and 'Images'. The 'Command' field contains '<TSM_PATH.19>' and the 'Command Parameters' field contains '-n C15NT70SW_INCR'. The 'Environment' section has 'Env File' set to '<TSM_WN21>', 'Working Dir' is empty, and 'Capture Alternate Output File' is empty. There is a 'Variables' dropdown menu at the bottom. The dialog is 'Enabled' and was last modified on 11/2/2006 at 02:09 PM.

Once configured, creating a job is as simple as referring to the node you want to backup.