

# SQL Backup Agent

In the event of a system outage, loss or disaster, hospitals need the ability to backup and restore their Microsoft SQL Server and Database environments as quickly as possible to the desired point in time.

BridgeHead's SQL Backup Agent offers comprehensive protection for Microsoft SQL Databases and Servers.

## Technical Overview

### KEY FEATURES

- ▶ Supports full backups
- ▶ Supports incremental SQL backups – using the transaction log
- ▶ Support page level differential backup
- ▶ Automates log file truncation
- ▶ Recovers at the database level [anything lower destroys relational consistency]
- ▶ Restores to alternate location or overwrites the original
- ▶ Web-based restore utility
- ▶ Restore to point-in-time from logs
- ▶ Integrates with the core HDM Platform

### MS SQL Backup Types

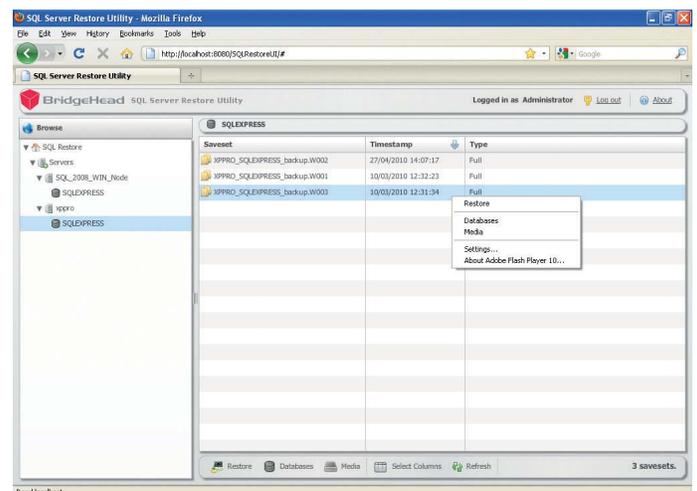
Backup Type	Explanation	Applies to which SQL Versions
Full	Back up of all the databases, internal objects and log files needed to restore the complete database	2000, 2005, 2008
Differential	All the changed pages in the database since the last backup	2000, 2005, 2008
Log	Takes a backup of all the transaction logs	2000, 2005, 2008

The table above shows the different backup types supported by each version of SQL. BridgeHead's SQL Backup Agent offers support for each (if you require support for earlier versions of SQL, please contact a BridgeHead representative).

Different versions of SQL require different technologies for backup – some can use VSS while others only use traditional APIs. BridgeHead's SQL Backup Agent uses the appropriate API for the version of SQL Server in question.

### SQL Server Recovery Options

As with all backup systems, the real benefit is restore. BridgeHead's SQL Backup Agent comes with a web-based restore wizard for the most demanding of recovery jobs. ▶



The wizard approach aims to remove as much stress involved in the restore process as possible. As the wizard is web-based, the administrator has no need to install anything in order to recover a SQL Server or a single database.

The SQL Backup Agent allows data to be recovered to the original or a new location and works out the optimal combination of Full, Differential, and Log restores required.

## Virtualised SQL Server

If a hospital has virtualized its SQL Servers, BridgeHead recommends that the SQL Backup Agent is still used for efficient and effective save and restore. The VMware Backup Agent protects the entire virtual machine (potentially including SQL), but although VMware can call VSS to get a consistent SQL backup, it only allows simple full backup and restore and does not provide any log management.

Please see the VMware Backup Agent for further details regarding BridgeHead's support for VMware and VADP.

# Functional Specification

Version	Agent Name
SQL2k & SQL2k5	SQL2k5 Agent
SQL2k8	SQL2k8 Agent

BridgeHead's core services run on Windows Servers – 2003 or 2008, 32 or 64 bit



With 20 years' experience in data and storage management, and 10 years in healthcare, BridgeHead Software is trusted by over 1,000 hospitals worldwide.

Today, BridgeHead Software helps healthcare facilities overcome challenges stemming from rising data volumes and increasing storage costs while delivering peace of mind around how to **STORE**, **PROTECT** and **SHARE** clinical and administrative information.

BridgeHead's Healthcare Data Management (HDM) solutions are designed to work with any hospital's chosen applications and storage hardware, regardless of vendor, providing greater choice, flexibility and control over the way data is managed, now and in the future.

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