Back up to the TSM Server

You can use the SQLsafe Backup wizard in the Management Console or the backup command in the CLI or XSP to send a backup directly to your TSM Server.

> ⊘ **Tip**
>
> TSM is case sensitive so special care should be taken when specifying the High Level and Low Level settings. Note that SQLsafe accepts up to 260 characters for the TSM file path name

Backup wizard

Start the Backup wizard and follow the tabs, setting the appropriate options. On the Locations tab, select **Tape** (Tivoli Storage Manager), and then specify the following required fields:

- High Level
- Low Level
- Management class (optional)
- Client Options File (dsm.opt file)
- Connection Settings

If your backup set is located on a TSM Server other than the server included in the dsm.opt file, you can change the TSM connections settings to override the values set in the client options file. Click **Change** on this option and specify: Node Name, Node Password, Server Address and Server Port.

You can also configure SQLsafe to mark these files as inactive after a specified age.

Example CLI code snippets that use the backup command

You can also perform a backup through the CLI. Additional backup options can be set in the SQLsafe Backup wizard, from which you can generate a CLI script that includes the specified wizard settings. For example:

```
SQLsafeCmd Backup Northwind TSM -TsmClientOwnerName tsmclient -TsmClientOwnerPassword password -TsmConfigFile
"C:\Program Files\Tivoli\TSM\baclient\dsm.opt" -TsmHighLevel Backup -TsmLowLevel %instance%_%database%_%
backuptype%_%timestamp%.safe -TsmManagementClass mclass1 -TsmTcpServerAddress tsmserver -TsmTcpPort 1500
```

You can use the CLI to change the TSM connections settings for the client options file. The `TsmTcpServerAddress` and `TsmTcpPort` options are compatible with any command that supports TSM.

For more information about available backup options, see the usage statements in the CLI Help.

XSP

You can perform backups using the XSP. The XSP backup parameters function in the same way as backup options in the CLI. For more information, see the sample XSP scripts available from the Programs menu.