

# Use of Commercial Backup Software with Juris (Juris 2.x w/MSDE)

Juris databases hosted on a Microsoft SQL Server 2000 Desktop Engine (MSDE) instance can be backed up manually through the Juris Management Console. Firms who want to automate the backup process to eliminate the nightly manual backup have the following two options:

- Upgrade the MSDE instance to the full version of Microsoft SQL Server 2000 (which allows the implementation of a scheduled SQL Maintenance Plan)
- Use an appropriate SQL agent for their backup software

Juris currently supports 2 third-party backup packages:

- Veritas Backup Exec from Symantec, versions 8.6 and higher
- BrightStor ARCserve Backup from Computer Associates, also versions 8.6 and higher.

Support for features and functions not specific to backing up the Juris/JBills databases should be requested from the appropriate software vendor.

Other software packages with SQL capabilities may be able to perform a valid backup of the Juris databases as well; assistance with configuring those packages may be available from Juris, Inc. on an Additional Services basis.

This document provides the special configuration steps you need to successfully use 3<sup>rd</sup> party SQL agents to back up the \JURIS MSDE instance. For more information on settings that don't relate to /JURIS MSDE backup, consult the documentation and support for the specific software.

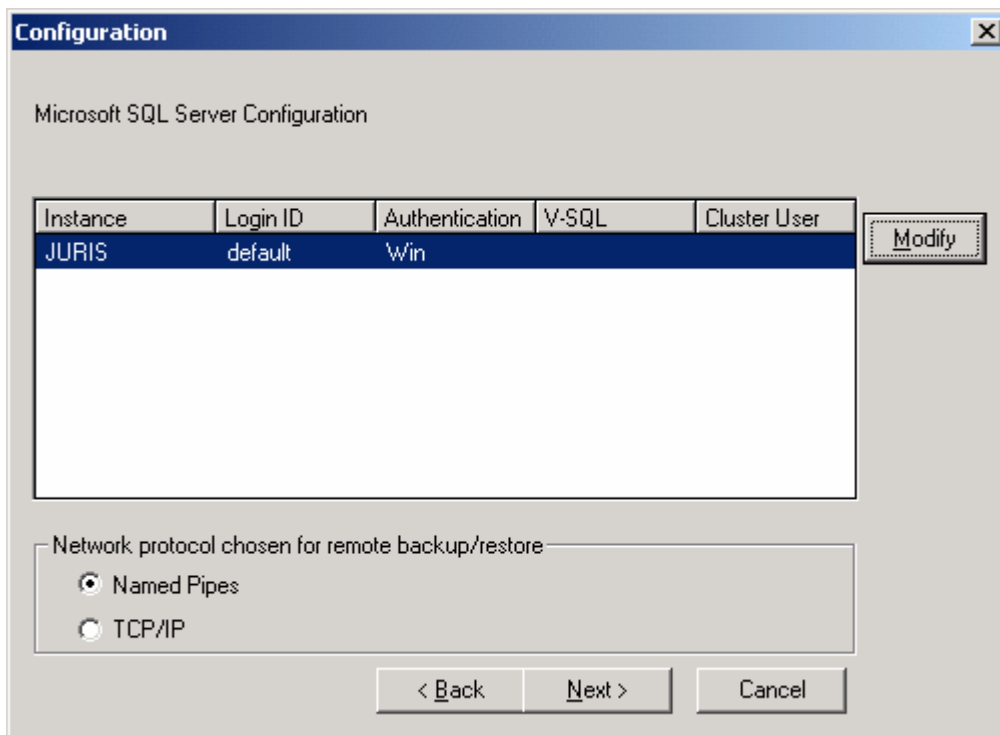
NOTE: Firms that use full SQL Server 2000/2005 (rather than MSDE) do not need to follow the steps provided in this document. Full SQL Server allows the creation of a Maintenance Plan within Enterprise Manager to schedule a database backup, or alternately the use of the "sa" SQL login for attaching to the SQL instance from third-party backup packages. In such an environment, the SQL administrator need only verify that 1) the Juris & JBills databases are being backed up regularly and 2) the Juris/JBills transaction logs are being backed up & truncated as appropriate. Consult the documentation for SQL Server and/or the appropriate backup software for details.

# BrightStor ARCserve 2000 (Advanced Edition)

## Backing Up the Juris and JBills databases

There are some special setup considerations required when using BrightStor ARCserve 2000. The BrightStor ARCserve 2000 backup software should be installed as normal, and the SQL Agent should be installed on the machine where MSDE/Juris Server is installed. When installing the SQL Agent there are a few options that need to be changed.

When the following screen appears, choose Modify.



The Authentication Mode must be changed to Mixed Mode and the Login ID should be entered as JurisRPT2 with password of JurisRPT2. (Firms using Juris version 2.0x should use the JurisRPT login with a blank password.) Choose OK.

**Modify Instance**

Instance Name: JURIS

Authentication Mode

Windows Authentication Mode

Mixed Mode (Windows authentication and SQL Server authentication)

Login ID and Password for SQL Server:

Login ID: JurisRPT

Password:

Confirm Password:

Please enter your cluster information here:

Virtual Microsoft SQL Server Name:

Windows NT Cluster Server User Name:

Windows NT Cluster Server Password:

Confirm Cluster Server Password:

OK Cancel

**Configuration**

Microsoft SQL Server Configuration

Instance	Login ID	Authentication	V-SQL	Cluster User
JURIS	JurisRPT	Mixed		

Modify

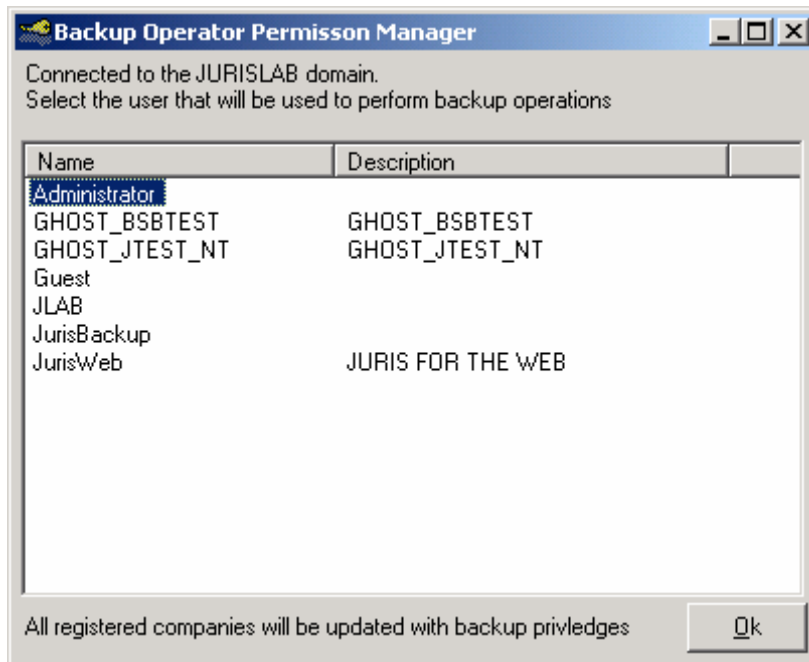
Network protocol chosen for remote backup/restore

Named Pipes

TCP/IP

< Back Next > Cancel

The second step requires the use of the Domain Administrator account. This account will be used with a Juris utility (DomainUser2.0.exe or DomainUser2.1.exe) to allow access to the Juris and J Bills databases for backup purposes. The DomainUser utility can be run from any directory on the Juris Server or a Juris Admin workstation. Double click on the DomainUser.exe and a screen similar to the following will appear.



Highlight the **Domain Administrator** and choose OK.

This same **Domain Administrator Account** must also be used to change the Log On account for two services that were installed by the Brightstor Arcserve SQL Agent.<sup>9</sup> Go to Start-Settings-Control Panel-Administrative Tools-Services. Right click on the ARCserve Discovery service and click on Properties. Click the Log On tab and change the Log on as: from Local System account to This account using the **Domain Administrator Account** chosen with the DomainUser.exe from above.<sup>10</sup> (See print screen on the following page) Click Apply and Ok. Right click on the service again and choose Restart, which will restart the service. These same steps need to be followed on the Backup Agent RPC Server service.

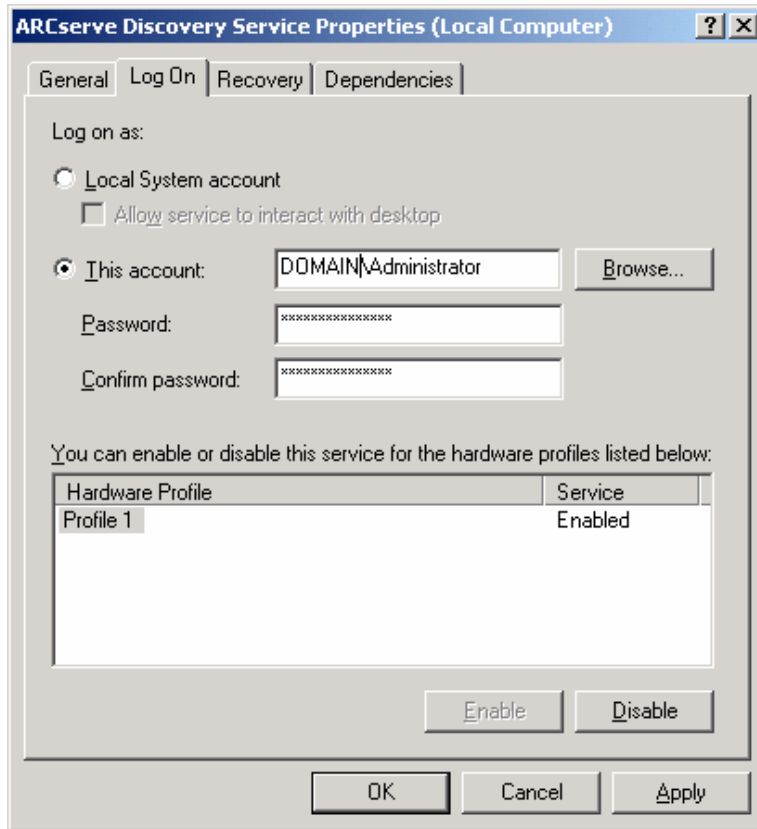
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<sup>7</sup> The System/Network Administrator should perform this step.

<sup>8</sup> The DomainUser utilities are available at [www.juris.com](http://www.juris.com).

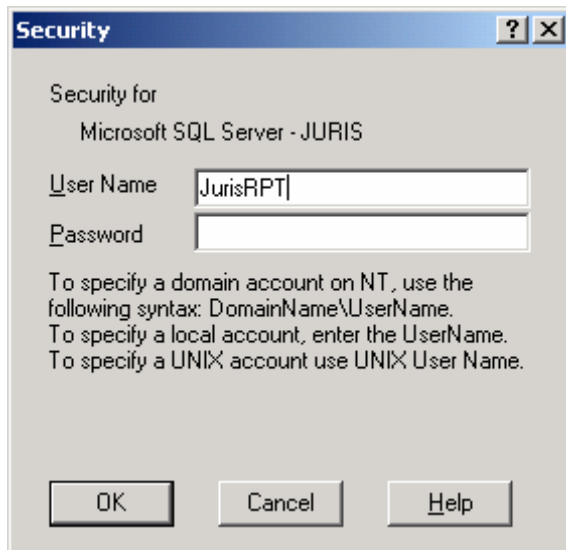
<sup>9</sup> When the Domain Administrator Account has a password change, that password must also be changed under the Services properties listed above.

<sup>10</sup> The account used should be preceded by the domain name as shown on the print screen below.

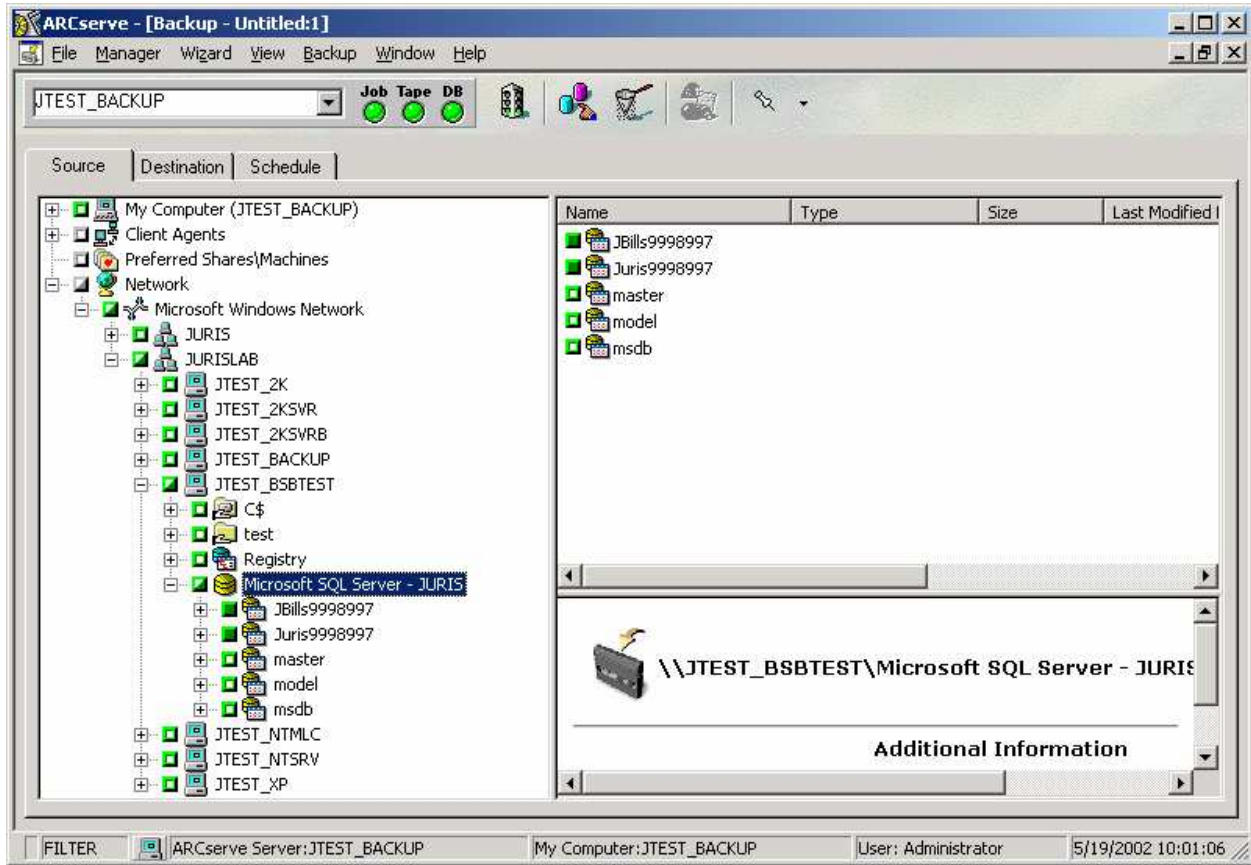


When you use BrightStor ARCserve 2000 ..., there are some steps that need to be followed. Browse out to the Juris/MSDE server and expand that selection. [how?] There will be a Microsoft SQL Server selection listed. Right click on the Microsoft SQL Server and choose Security.

The following screen will appear. Enter JurisRPT211 as the User Name with a password of JurisRPT2 and choose OK. (Juris 2.0x users should use the JurisRPT login with a blank password.)

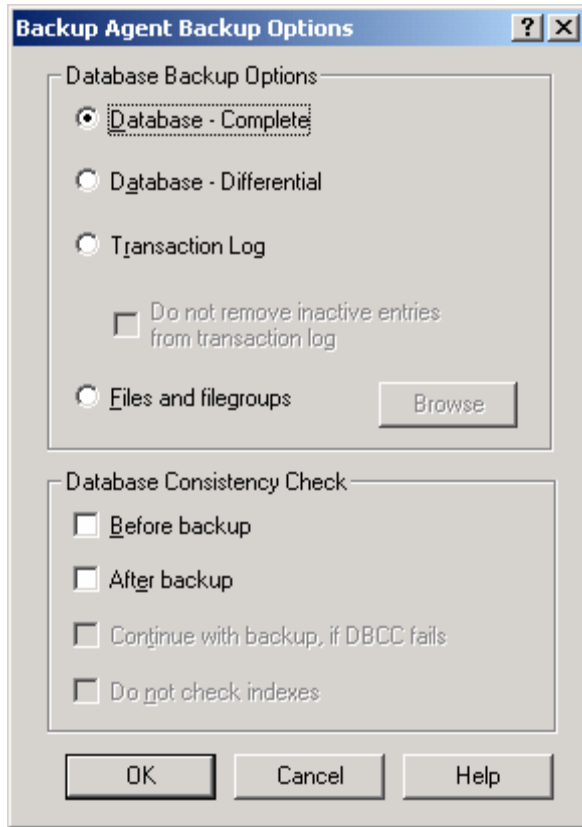


Expand the Microsoft SQL Server selection and choose both Juris and JBills as shown below.



Right-click on the Juris or JBills database and the following options will appear. When backing up the database, these should be left to the default settings.<sup>12</sup>

<sup>12</sup> The Database Consistency Check option will not function correctly when backing up the Juris or JBills databases. The Verify option from the Juris Management Console should be used instead once the backup has completed



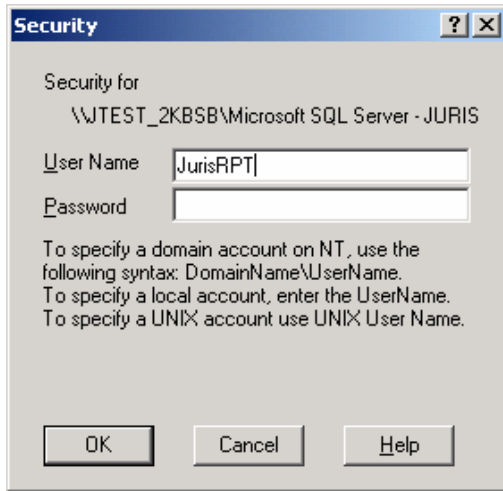
If prompted for a username/password when starting the backup, Juris 2.1+ users should use JurisRPT2 as the Login/Username with a password of JurisRPT2. Juris 2.0x users will use JurisRPT with a blank password.

There will need to be two separate backup jobs created: One to backup the databases (Juris and JBills) and the second to backup and truncate the transaction log files. The job to truncate the log files does not have to be performed on a nightly basis, but should be performed at least a couple of times a month. This can be done by simply creating a second backup and changing the Backup Options shown above from “Database-Complete” to “Transaction Log.” Consult the BrightStor ARCserve documentation for more information.

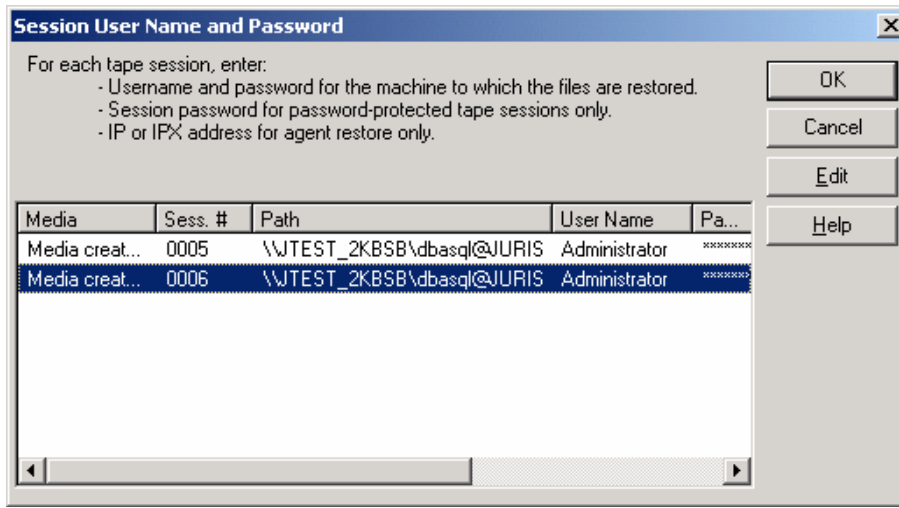
## **RESTORING:**

The Restore process can be completed as normal per the backup software documentation. The Database Restore Options should be left as default<sup>13</sup>. The restore process will prompt two logins and passwords. The first is will be a security login. The JurisRPT2 (password of JurisRPT2) or JurisRPT user (blank password) should be entered here as shown below.

<sup>13</sup> The Database Consistency Check option will not function correctly when restoring the Juris or JBills databases. The Verify option from the Juris Management Console should be used instead once the Restore has completed.



The second login will be for a session name and password. This username/password may need to be changed to the Domain Administrator. Example shown below:



## BrightStor ARCserve Version 9<sub>14</sub> & 11

Install the BrightStor ARCserve backup software as normal.<sup>15</sup> When installing the SQL Agent onto the Juris/MSDE server, the Account Configuration must be changed as shown in below. The Authentication for the \\JURIS instance must be changed to SQL and JurisRPT2 (password: JurisRPT2) for Juris 2.1+ users or JurisRPT (blank password) for Juris 2.0x users must be entered as the Login ID.

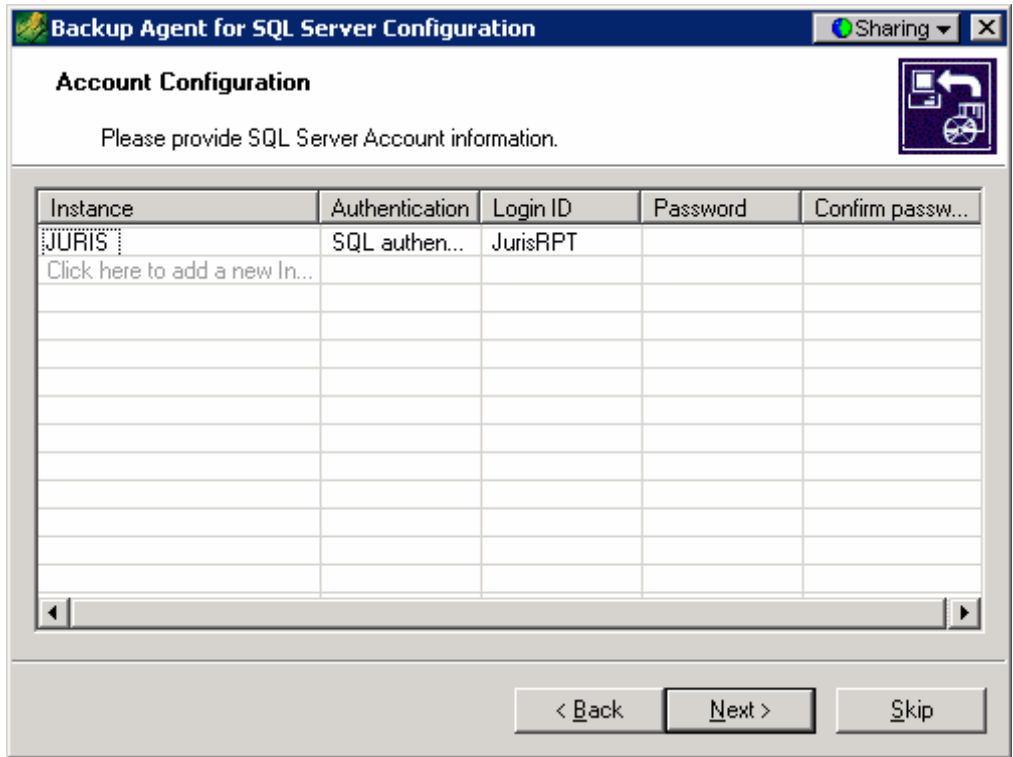
<sup>14</sup> BrightStor ARCserve 9 is capable of backing up local and remote databases. ARCserve 2000 can only backup remote databases.

<sup>15</sup> BrightStor ARCserve 9 requires a patch to be fully function with Juris. The latest update for ARCserve v.9 (currently v.9.01) and patch QO38957.CAZ (available from the ARCserve website) need to be installed to allow backups of the Juris and JBills databases. The software patch is the result of Juris, Inc. and Computer Associates working together to make sure that ARCserve v.9 allowed full

backup capability for Juris clients using MSDE. The software patch may be added to a future ARCserve 9 update. Check the ARCserve update documentation for details.

BrightStor ARCserve v.11 requires a special registry setting to be able to properly backup Juris and JBills. In registry key HKLM\Software\ComputerAssociates\BrightStor ARCserve Backup\Base\Task\Common\DBAgentsSettings\ add a DWORD value named DBLocalAsRemote with a value of 1.





When making a backup with BrightStor ARCserve v.9, right-click on the JURIS instance.



Choose Security and enter User Name JurisRPT<sup>16</sup> with a password of JurisRPT2 (for Juris 2.1x) or JurisRPT with a blank password (for Juris 2.0x).

Security for Microsoft SQL Server - JURIS

User Name

Password

To specify a Windows domain account, use the following syntax: DomainName\UserName.

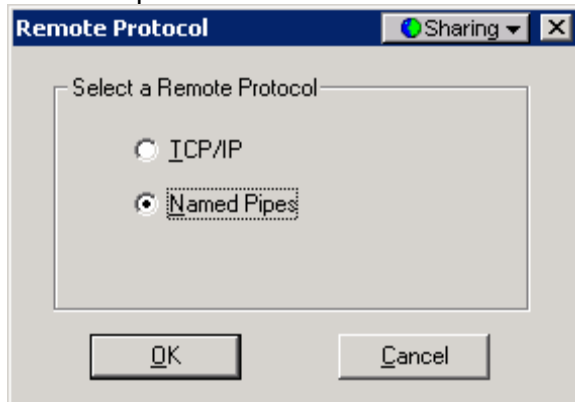
To specify a local account, enter the BrightStor ARCserve Backup User Name.

To specify a Linux/Unix server account, enter only the BrightStor ARCserve Backup User Name.

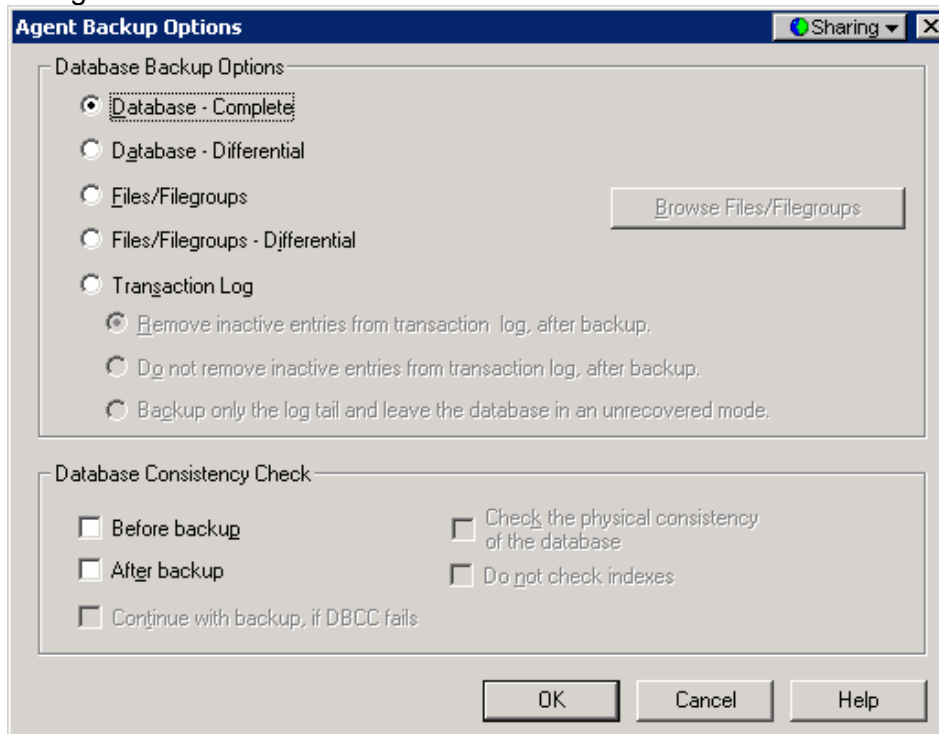
To log on to a NetWare server, enter the full NDS context.

<sup>16</sup> JurisRPT2/JurisRPT must have Backup/Restore rights for the two Juris databases. Use JUT21119.exe for Juris 2.1+ or JUT2070.exe for Juris 2.0x (both available in the Client Downloads area of Juris.com) if needed to assign the proper rights.

Right click on the instance again and change the Remote Protocol from TCP/IP to Named Pipes.<sup>17</sup>

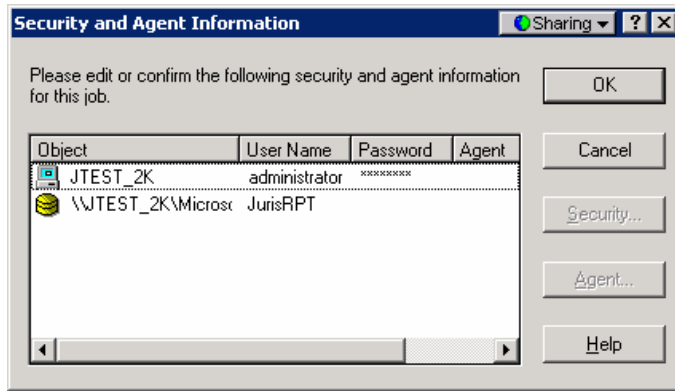


Expand the Juris instance, choose the Juris and JBills databases. Right-click on each database to open the Backup Agent Options and choose the type of backup being made, Database or Transaction Log. The default options for either should not be changed.



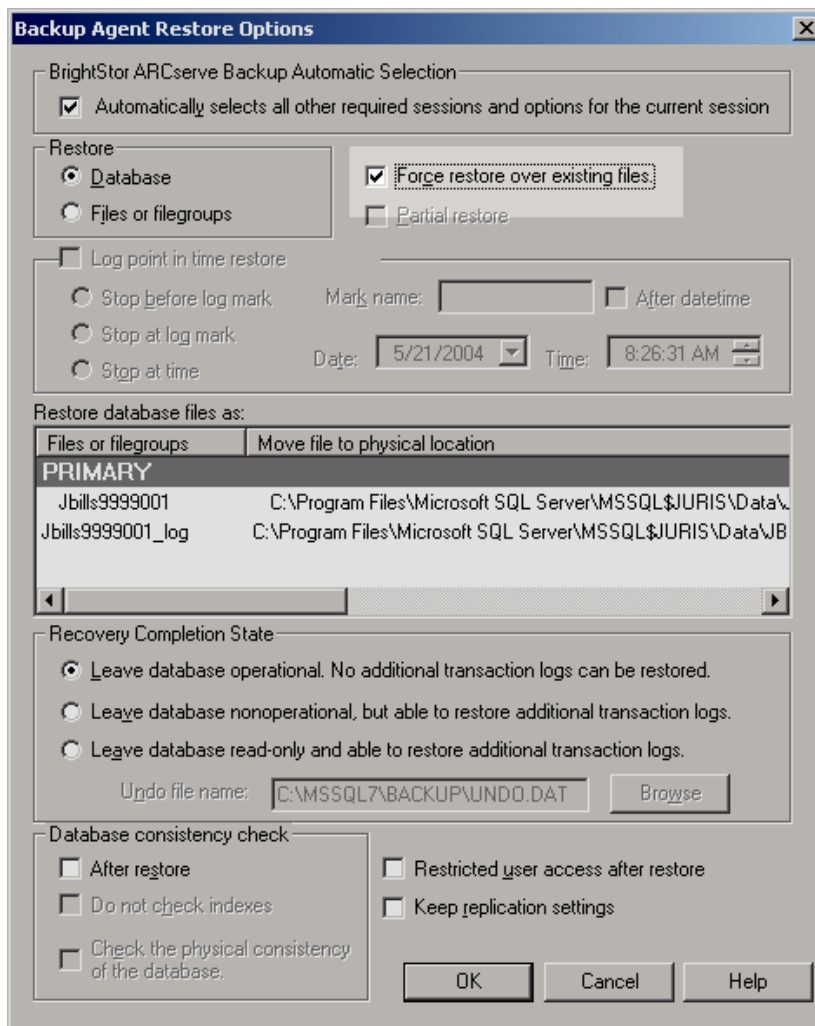
Complete the backup as normal. Enter the appropriate credentials if prompted when starting the backup.

<sup>17</sup> In an environment where ARCserve is installed on the same server as MSDE, the server must be added as a "Preferred Server/Machine" and the backup job configured to use that instance of the server in order for ARCserve to allow configuration of a Remote Protocol. Consult your ARCserve documentation for more details.



## Restoring

When restoring the Session User Name and Password dialog box will appear. The DBA Agent information must be changed for both Juris and JBills as shown below.



Also, the Session User Name and Password settings should be edited so that ARCserve is connecting via the DBAgent as JurisRPT2 with a password of JurisRPT2 (for Juris 2.1+) or JurisRPT with a blank password (for Juris 2.0x), and the Machine is connecting as Administrator with the appropriate password.

