Tech Note 792
Command Line Shutdown and Startup of Historian

Topic#: 002575
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Introduction

It can be necessary to shutdown the Historian manually without accessing the SMC. For example, if the Historian Server is dependent on a UPS (Uninterrupted Power Supply), there is limited time to perform a proper shutdown and disable the Historian. This is true especially during a power failure in the middle of the night.

This *Tech Note* explains how to shutdown the Historian through the command line so that it can be scripted as part of the server shutdown process, or to simply shutdown the Historian remotely.

Application Versions

- Historian 10.0 or later
- Windows 2003 or later

Shutting Down the Historian Locally

To shut down the Historian locally on the server, the Service Control command line program (sc.exe) is used to communicate with the Historian configuration service.

Below are the lines that will be executed in the batch file to first disable the Historian and then to stop it entirely. The first step will prevent the Retrieval & Indexing services from restarting again.

If the script is meant to shutdown the Historian server before performing a full machine shutdown, do include some allowance time for the Historian services to fully shutdown before shutting down the machine. A 'sleep' command, which is available through the internet, should be added at the end of the example below.

```
SC \\localhost config InSQLConfiguration start= disabled
```

AND

```
SC \\localhost stop InSQLConfiguration
```

- Start a standard text editor, such as Microsoft Notepad, and copy and paste the above two lines into it. Then save the file as **shutdown.bat**. This batch file is executable in the command prompt.

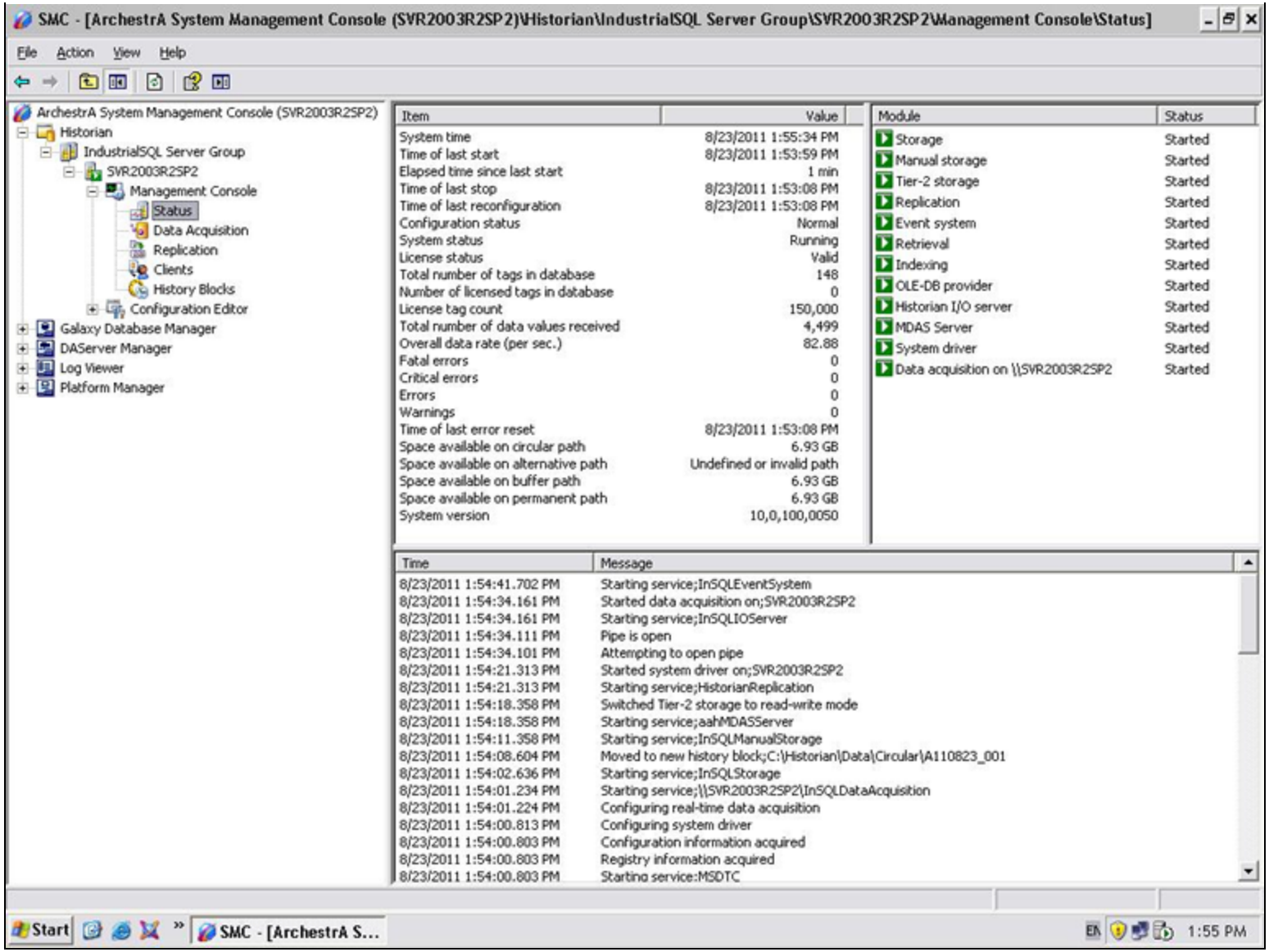

FIGURE 1: HISTORIAN IS RUNNING

Figure 2: Running the Shutdown Script Disables the Historian Configuration and Stops the Historian Server

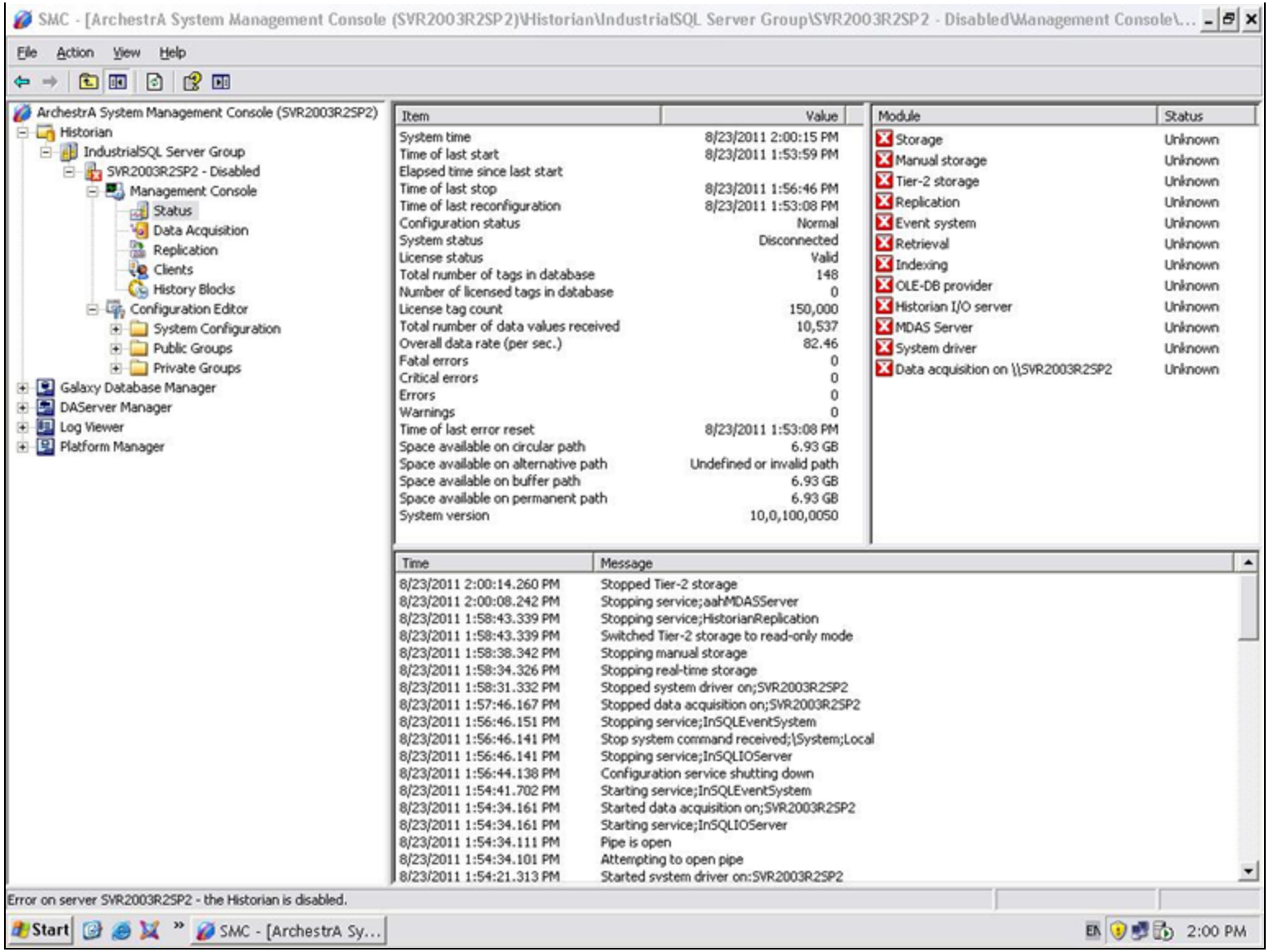

FIGURE 3: THE HISTORIAN CONFIGURATION IS DISABLED AND THE HISTORIAN SERVER IS STOPPED

Shutting Down the Historian Remotely

To shutdown the Historian remotely, the remote machine must have administrative access to the Historian Server. If the Historian server and the remote machine are part of a domain, the user account used to log into the remote machine must have administrative access to the Historian server to be able to perform this task.

- Instead of using **localhost** in the command line, change it to the Historian server name. In the following example, the server name is **\\SVR2003R2SP2**.

```
SC \\SVR2003R2SP2 config InSQLConfiguration start= disabled
```

AND

```
SC \\SVR2003R2SP2 stop InSQLConfiguration
```

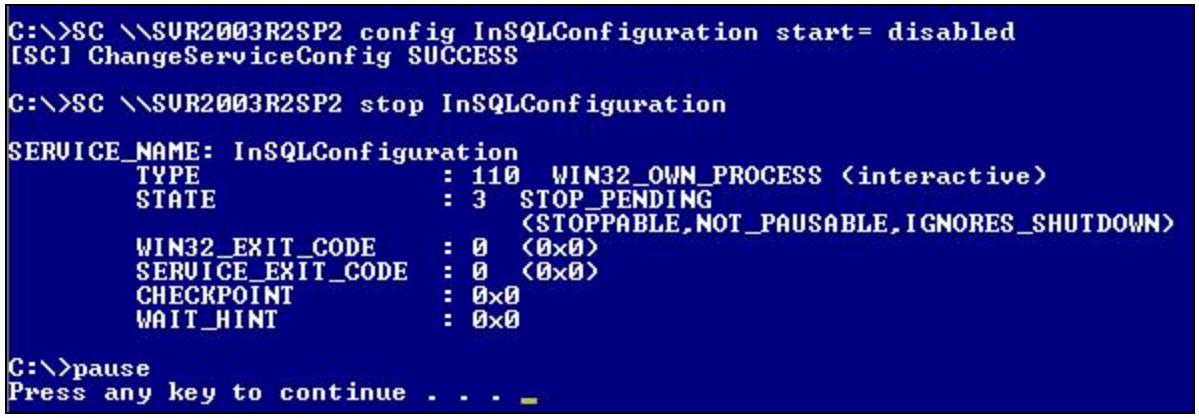

FIGURE 4: RUNNING THE SHUTDOWN SCRIPT ON A REMOTE MACHINE

Starting up the Historian Locally

To be able to startup the Historian locally on the server, the Service Control command line program (sc.exe) is again used to communicate with the Historian Configuration service.

Below are the lines that will be executed in the batch file to first enable the Historian and then to start it. The Historian needs to be configured to AutoStart so that all the Historian services will be started. If the AutoStart parameter is set to '0', only the Retrieval / Indexing / OLE-DB Provider / MDAS Server and Tier-2 Storage services will be started.

```
SC \\localhost config InSQLConfiguration start= auto
```

AND

```
SC \\localhost start InSQLConfiguration
```

- Start a standard text editor, such as Microsoft Notepad, and copy and paste the above two lines into it. Then save the file as **startup.bat**. This batch file is executable in the command prompt.

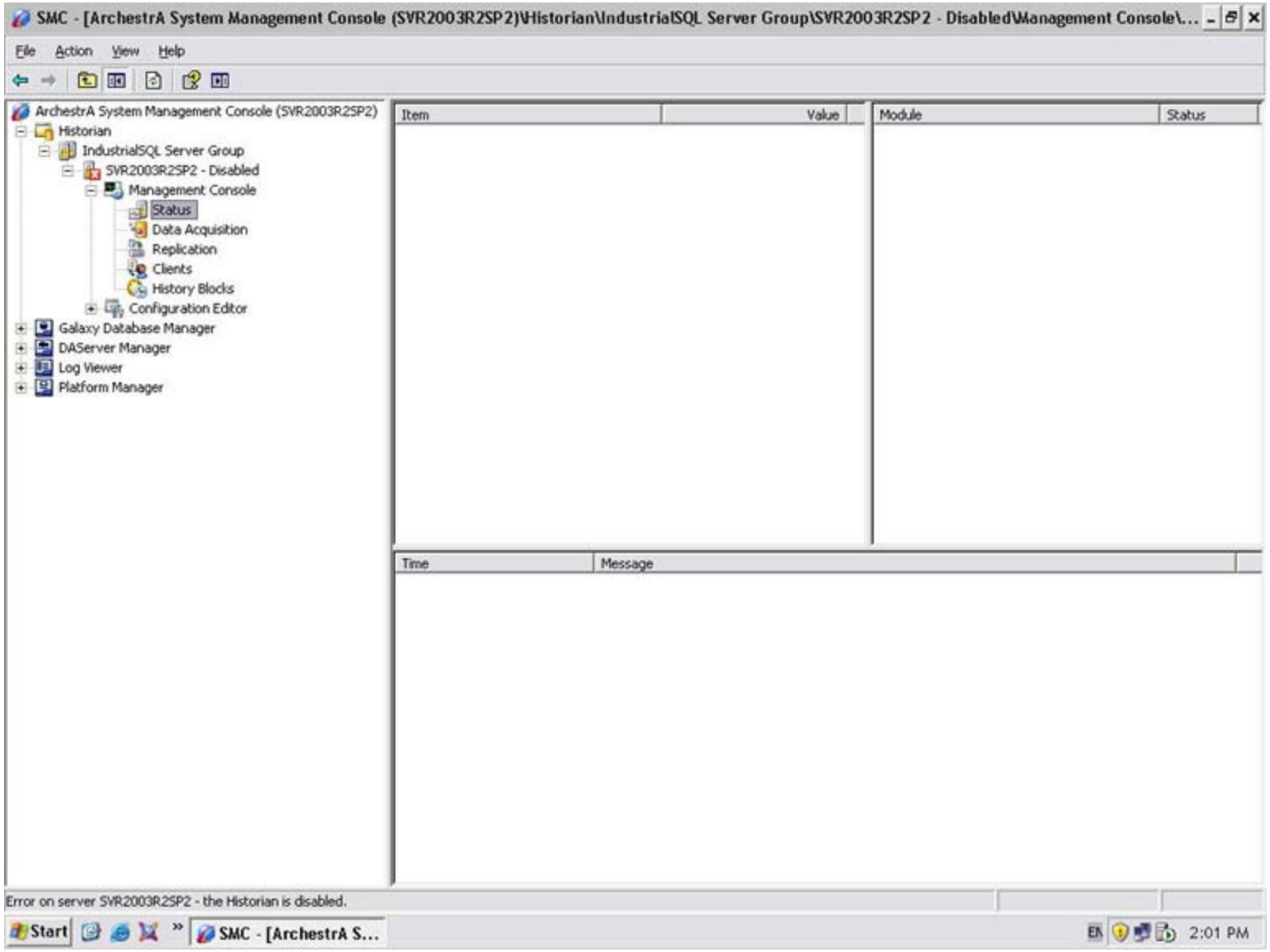

FIGURE 5: HISTORIAN IS TOTALLY SHUT DOWN AND DISABLED

```
C:\>SC \\localhost config InSQLConfiguration start= auto
[SC] ChangeServiceConfig SUCCESS

C:\>SC \\localhost start InSQLConfiguration

SERVICE_NAME: InSQLConfiguration
        TYPE               : 110  WIN32_OWN_PROCESS  (interactive)
        STATE              : 4  RUNNING
                                (STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE    : 0  (0x0)
        SERVICE_EXIT_CODE  : 0  (0x0)
        CHECKPOINT         : 0x0
        WAIT_HINT          : 0x0
        PID                : 3844
        FLAGS              :

C:\>pause
Press any key to continue . . .
```

FIGURE 6: RUNNING THE STARTUP SCRIPT ENABLES THE HISTORIAN CONFIGURATION AND STARTS THE HISTORIAN SERVER

Starting up the Historian Remotely

To startup the Historian remotely, the remote machine must have administrative access to the Historian server. If the Historian server and the remote machine are part of a domain, the user account used to log into the remote machine must have administrative access to the Historian server to be able to perform this task.

- Instead of using **localhost** in the command line, change it to the Historian server name. In the example below, the server name is **\\SVR2003R2SP2**.

  ```
  SC \\SVR2003R2SP2 config InSQLConfiguration start= auto
  ```

  AND

  ```
  SC \\SVR2003R2SP2 start InSQLConfiguration
  ```

Alternative to sc.exe

sc.exe is available on Microsoft Windows XP, 2000, 2003 and 2008.

If the **sc.exe** command is not available in your Operating System, you can use **psservice** as the alternative. Click **HERE** for more information.

J. Lau

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