

## Tech Note 792

# Command Line Shutdown and Startup of Historian

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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.

The screenshot displays the SMC - [ArchestrA System Management Console] interface. The title bar shows the path: SMC - [ArchestrA System Management Console (SVR2003R2SP2)\Historian\IndustrialSQL Server Group\SVR2003R2SP2\Management Console\Status]. The main window is divided into three sections:

- Left Panel:** A tree view showing the system hierarchy: Historian > IndustrialSQL Server Group > SVR2003R2SP2 > Management Console > Status.
- Top Right Panel:** A table showing the status of various modules.
- Bottom Panel:** A log window showing the sequence of events during the startup of the Historian.

Item	Value	Module	Status
System time	8/23/2011 1:55:34 PM	Storage	Started
Time of last start	8/23/2011 1:53:59 PM	Manual storage	Started
Elapsed time since last start	1 min	Tier-2 storage	Started
Time of last stop	8/23/2011 1:53:08 PM	Replication	Started
Time of last reconfiguration	8/23/2011 1:53:08 PM	Event system	Started
Configuration status	Normal	Retrieval	Started
System status	Running	Indexing	Started
License status	Valid	OLE-DB provider	Started
Total number of tags in database	148	Historian I/O server	Started
Number of licensed tags in database	0	MDAS Server	Started
License tag count	150,000	System driver	Started
Total number of data values received	4,499	Data acquisition on \SVR2003R2SP2	Started
Overall data rate (per sec.)	82.88		
Fatal errors	0		
Critical errors	0		
Errors	0		
Warnings	0		
Time of last error reset	8/23/2011 1:53:08 PM		
Space available on circular path	6.93 GB		
Space available on alternative path	Undefined or invalid path		
Space available on buffer path	6.93 GB		
Space available on permanent path	6.93 GB		
System version	10,0,100,0050		

Time	Message
8/23/2011 1:54:41.702 PM	Starting service;InSQLEventSystem
8/23/2011 1:54:34.161 PM	Started data acquisition on;SVR2003R2SP2
8/23/2011 1:54:34.161 PM	Starting service;InSQLIOserver
8/23/2011 1:54:34.111 PM	Pipe is open
8/23/2011 1:54:34.101 PM	Attempting to open pipe
8/23/2011 1:54:21.313 PM	Started system driver on;SVR2003R2SP2
8/23/2011 1:54:21.313 PM	Starting service;HistorianReplication
8/23/2011 1:54:18.358 PM	Switched Tier-2 storage to read-write mode
8/23/2011 1:54:18.358 PM	Starting service;aahMDAServer
8/23/2011 1:54:11.358 PM	Starting service;InSQLManualStorage
8/23/2011 1:54:08.604 PM	Moved to new history block;C:\Historian\Data\Circular\A110823_001
8/23/2011 1:54:02.636 PM	Starting service;InSQLStorage
8/23/2011 1:54:01.234 PM	Starting service;\SVR2003R2SP2\InSQLDataAcquisition
8/23/2011 1:54:01.224 PM	Configuring real-time data acquisition
8/23/2011 1:54:00.813 PM	Configuring system driver
8/23/2011 1:54:00.803 PM	Configuration information acquired
8/23/2011 1:54:00.803 PM	Registry information acquired
8/23/2011 1:54:00.803 PM	Starting service:MSDTC

FIGURE 1: HISTORIAN IS RUNNING

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

C:\>SC \\localhost stop InSQLConfiguration

SERVICE_NAME: InSQLConfiguration
        TYPE               : 110   WIN32_OWN_PROCESS   (interactive)
        STATE                : 3     STOP_PENDING
                        (STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE       : 0      (0x0)
        SERVICE_EXIT_CODE   : 0      (0x0)
        CHECKPOINT           : 0x0
        WAIT_HINT            : 0x0

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

FIGURE 2: RUNNING THE SHUTDOWN SCRIPT DISABLES THE HISTORIAN CONFIGURATION AND STOPS THE HISTORIAN SERVER

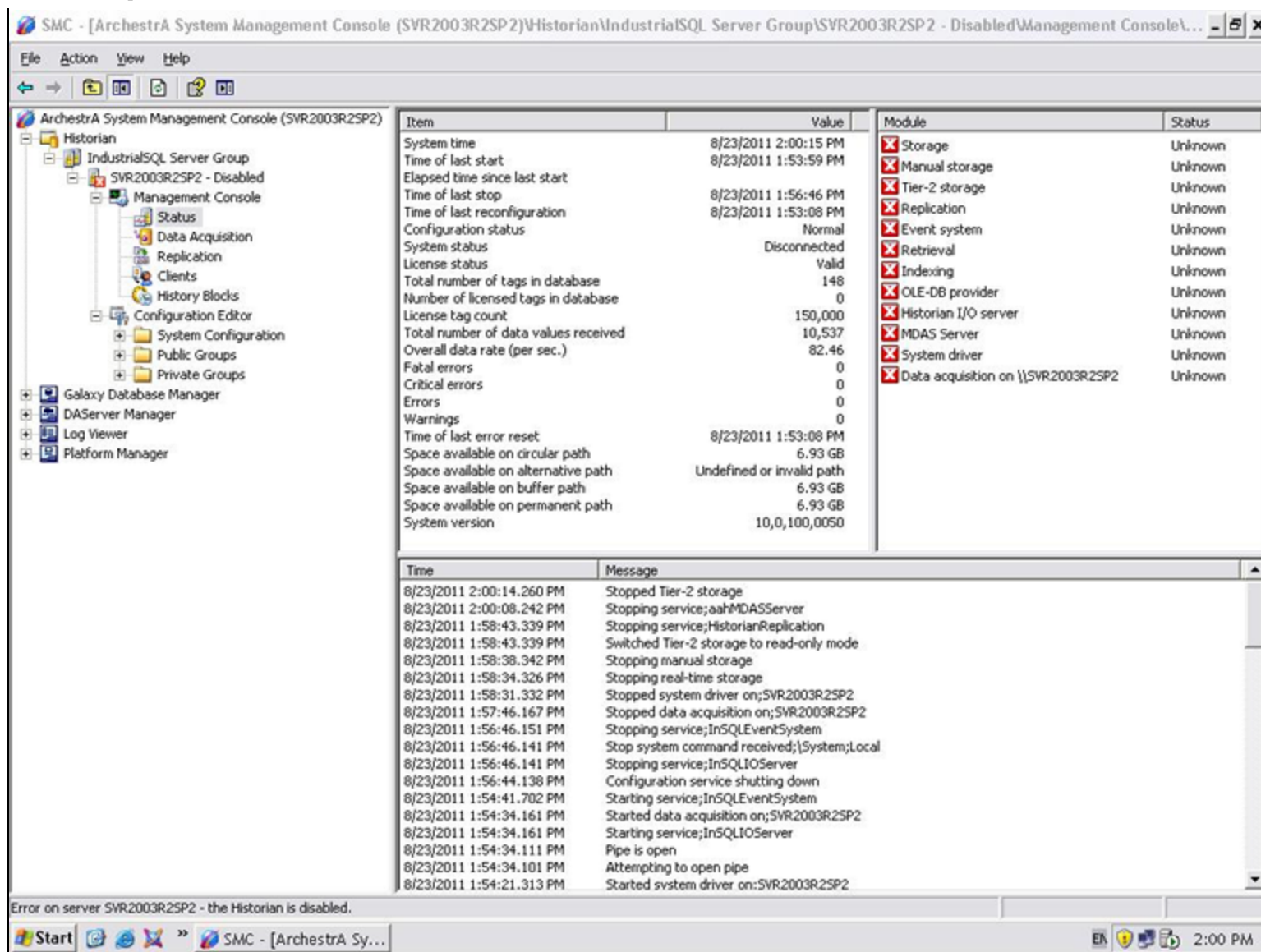


FIGURE 3: THE HISTORIAN CONFIGURATION IS DISABLED AND THE HISTORIAN SERVER IS STOPPED

## 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
```



```
C:\>SC \\SVR2003R2SP2 config InSQLConfiguration start= disabled
[SC] ChangeServiceConfig SUCCESS

C:\>SC \\SVR2003R2SP2 stop InSQLConfiguration

SERVICE_NAME: InSQLConfiguration
        TYPE               : 110   WIN32_OWN_PROCESS (interactive)
        STATE                : 3     STOP_PENDING
                        (STOPPABLE,NOT_PAUSABLE,IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE       : 0     (0x0)
        SERVICE_EXIT_CODE   : 0     (0x0)
        CHECKPOINT          : 0x0
        WAIT_HINT            : 0x0

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

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.

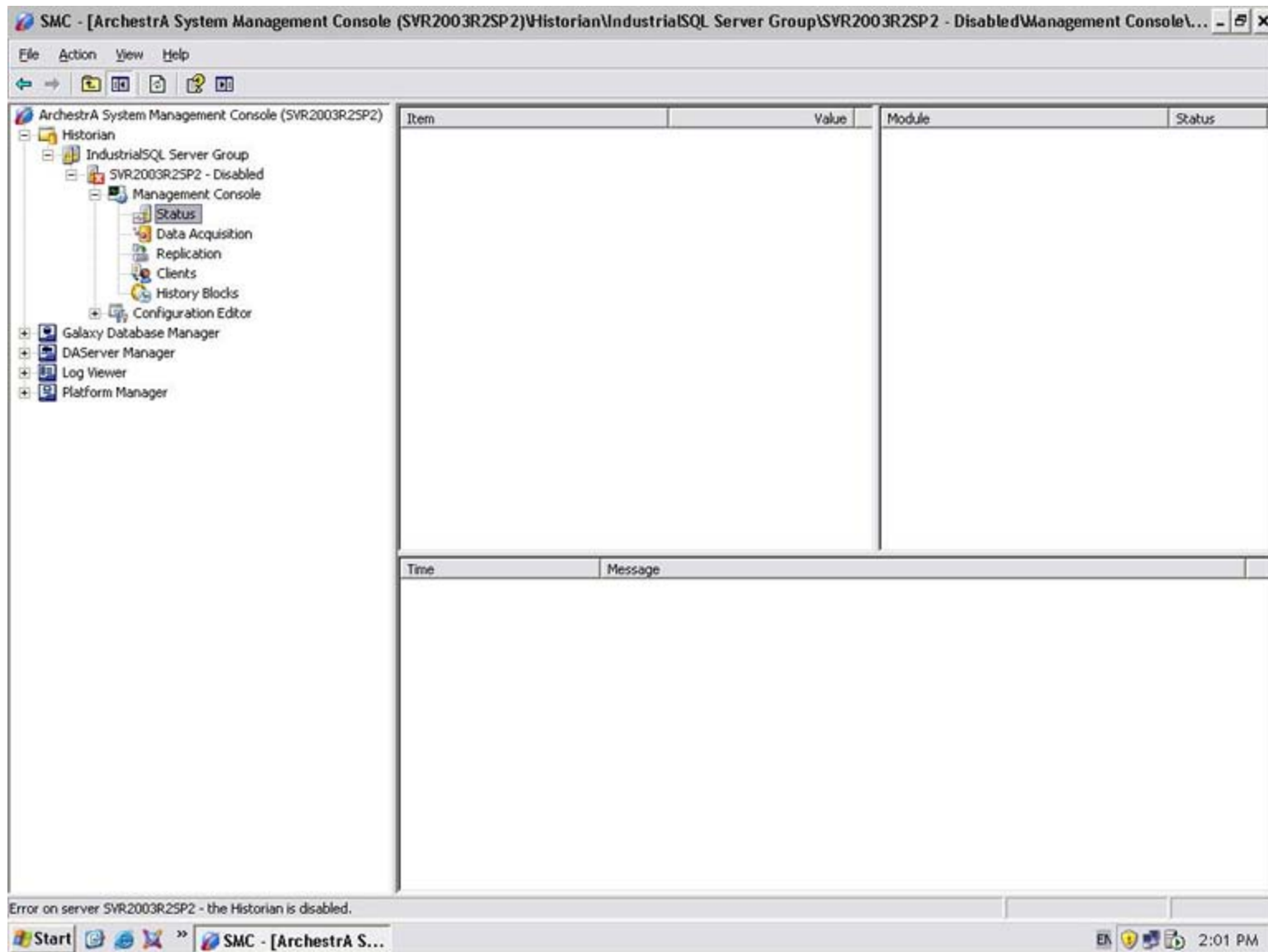


FIGURE 5: HISTORIAN IS TOTALLY SHUT DOWN AND DISABLED



```

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.

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