

CRISTAL WMS AUSServerNet Service

Revision History

| Version | Date | By | Description |
|---------|-------------|---------|--|
| 1.0 | 26 May 2009 | NJ Wong | Creation Date |
| 1.1 | 25 Oct 2010 | NJ Wong | <ol style="list-style-type: none"> 1. Rename "AUSServerNet1.EXE" and "AUSServerNet2.EXE" to "AUSServerNet01.EXE" and "AUSServerNet02.EXE". 2. Added references to 'StopAUServices.BAT' and "StartAUServices.BAT" script files. |

1. Introduction

1.1. What is AUSServerNet?

AUSServerNet is the Microsoft .NET implementation of the original WMS Auto Upload Server service which was written in Visual Basic 6. AUSServerNet is developed with Visual Basic 2008.

Please refer to the documentation for the AUSServer service on how the Auto Upload Server service works.

As AUSServerNet is a .NET application, it can only be installed on the following platforms:

- Windows XP Pro
- Windows 2000
- Windows Server 2003
- Windows Server 2008

.NET Framework Requirements

.NET Framework 3.5 must be installed on the PC running the AUSServerNet service.

1.2. Changes in AUSServerNet from AUSServer

Interval Can Be Changed without Service Restart

In AUSServer, when the wait interval was changed, it was necessary to stop and restart the AUSServer service to have the new interval take effect.

In AUSServerNet, when the wait interval is changed, the new interval will take effect within 60 seconds without requiring a restart of the service.

Service Status Can be Monitored by the User

In AUSServer, WMS users are not able to monitor whether the service was running. It was necessary to go to the computer running the service and inquire from the **Control Panel > Administrative Tools > Services** console to see if the service was running or had stopped.

In AUServerNet, the program now updates the APPLICATION_LOG table every minute during idle periods (ie. when the program is not importing data). Look for the APPLICATION_LOG record with the following field values:

| userid | activity |
|---------------|---------------------------|
| AUServerNet01 | AUServerNet01 - Heartbeat |

When the AUServerNet program is not performing any file imports, the timestamp for this record will be updated every 1 minute. By examining this record, it is possible to tell if the service is running or has hung.

2. Installation

2.1. Overview

The AUServerNet installation file (the SETUP.BAT) runs a simple script to create the following directory, and to extract the following files into it:

[C:\Program Files\Cristal AUServerNet](#)

[C:\Program Files\Cristal AUServerNet\Batch Files](#)

| Filename | Description / Remarks |
|-------------------------------------|--|
| AUServerNet01.exe | Executable to be used for the LIVE system. |
| AUServerNet02.exe | Executable to be used for the TEST system. |
| 01_install.bat / 02_install.bat | Script files to install the AUServerNet01.exe / AUServerNet02.exe as Windows services. These script files do not associate the database name with the service. The database association is done from the <i>xx_start.bat</i> scripts. |
| 01_start.bat / 02_start.bat | Script files to associate the AUServerNet01.exe / AUServerNet02.exe services with the appropriate database. The AUServerNet services should not be started from the Control Panel > Administrative Tools > Services applet during installation, as that would not register the database name with the service. It is <u>imperative</u> that the AUServerNet services are always started via the <i>xx_start.bat</i> scripts the first time during installation. You can only restart the service using the Administrative Tools > Services applet subsequently. |
| 01_stop.bat / 02_stop.bat | Script files to stop the AUServerNet1.exe / AUServerNet2.exe services. Services can also be stopped from the Administrative Tools > Services apple. |
| 01_uninstall.bat / 02_uninstall.bat | Script files to remove AUServerNet01.exe / AUServerNet02.exe from the list of Windows |

| | |
|--|--|
| | services on the computer. |
| StopAUServices.bat / StartAUServices.bat | These are script files that can be optionally executed by a system scheduled task to stop the AUSServerNet services before a database backup/replication event is initiated, and to restart the AUSServerNet services after the database backup/replication event has completed. |

2.2. Editing Script Files

Directory Pathnames

Each AUSServerNet executable file is accompanied by 4 batch (script) files. The script files assume the following:

- That the .NET Framework 3.5 has been installed, and the “installutil.exe” utility program, required by .NET Framework for installing .NET Windows services programs, is located in the directory:

[C:\Windows\Microsoft.NET\Framework\v2.0.50727](#)

- All the AUSServerNet EXE executable files will be copied into the directory:

[C:\Program Files\Cristal AUSServerNet](#)

- All the AUSServerNet batch scripts are copied into the directory:

[C:\Program Files\Cristal AUSServerNet\Batch Files](#)

If these paths are not correct, please edit the SETUP.BAT script file, as well as all appropriate batch script files in the “Batch Files” subdirectory.

WMS Registry Keys

The “xx_start.bat” script file requires a WMS Registry Key to be added as a parameter for the “sc start” command. This WMS Registry Key should be the same one used by the Desktop WMS as well as the PQServer service.

By default, the WMS Registry Keys of “WMS_LIVE” and “WMS_TEST” are stored in the “01_start.bat” and “02_start.bat” script files respectively. These registry keys are used to associate the Live and Test databases with the script files respectively.

The script files must be edited if the WMS Registry Keys are different.

2.3. Associating a Different Windows Account

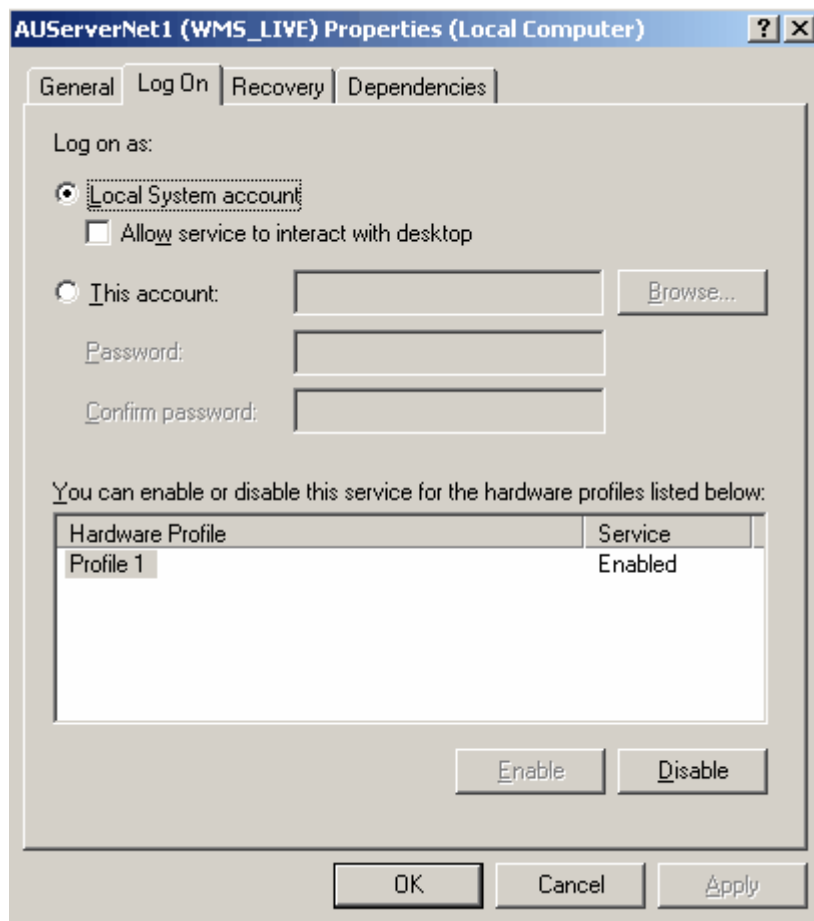
By default, all Windows services default to run with the local “SYSTEM” account.

In an Active Directory network, it may be necessary to run the service with a different Windows account.

First, run the “xx_install.bat” script file to install the AUSServerNet executable as a service.

Then, run the **Control Panel > Administrative Tools > Services** applet to display the list of services. From the list display, right click on the AUSServerNet service that you wish to configure and click **Properties**.

On the Properties form displayed, select the **Log On** tab:



Change the “Log on as” selection to “This account” and specify the appropriate account name and password.

3. Appendix – Script Files

Note

Only the script files for AUSServerNet01.exe are listed. The script files for AUSServerNet02.exe are similar in all respect, except that the "02_start.bat" script file passes the "WMS_TEST" registry key instead of "WMS_LIVE".

3.1. 01_install.bat

```
"C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\Installutil.exe" »  
"C:\Program Files\Cristal AUSServerNet\AUSServerNet01.exe"  
  
pause
```

3.2. 01_start.bat

```
sc config AUSServerNet01 start= auto  
sc start AUSServerNet1 "WMS_LIVE"  
  
pause
```

3.3. 01_stop.bat

```
sc stop AUSServerNet01  
  
pause
```

3.4. 01_uninstall.bat

```
"C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\installutil.exe" »  
"C:\Program Files\Cristal AUSServerNet\AUSServerNet01.exe" /u  
  
pause
```

3.5. StopAUServices.bat

This script file is similar to the "01_stop.bat" script file, except that it doesn't execute a PAUSE command. It can be called from a system scheduled task to stop any AUServerNet services prior to a database backup, replication etc.

```
REM *****
REM This batch file is called from ScheduledTasks
REM to stop the Auto Upload Service
REM before Replication starts.
REM *****

SC stop AUServerNet01
```

3.6. StartAUServices.bat

This script file is similar to the "01_start.bat" script file, except that it doesn't execute a PAUSE command. . It can be called from a system scheduled task to restart any AUServerNet services after the database backup, replication has completed.

```
REM *****
REM This batch file is called from ScheduledTasks
REM to restart the Auto Upload Service
REM when Replication has ended.
REM *****

SC start AUServerNet01 "WMS_LIVE"
```