

## Tech Note 747

# MES 4.0 Middleware Does Not Start After Installation

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Topic#: 002525

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## Introduction

After installing the Middleware on a machine it goes into error state after 30 seconds. Further, none of the client applications will start.

This can be due to Windows Communication Foundation issue in which the same endpoint is being used by another service.

## Application Version

- Wonderware MES 4.0

## Solution:

If the Middleware starts and shuts down right away, look at the Application Event Log on the machine where it is installed.

If you see following error data, complete the following steps to resolve this issue.

### Error in the Application event log:

```
Service cannot be started. System.ServiceModel.AddressAlreadyInUseException: There is already a listener on IP endpoint 0.0.0.0:8099. Make sure that you are not trying to use this endpoint multiple times in your application and that there are no other applications listening on this endpoint. ---> System.Net.Sockets.SocketException: Only one usage of each socket address (protocol/network address/port) is normally permitted
```

```
at System.Net.Sockets.Socket.DoBind(EndPoint endPointSnapshot, SocketAddress socketAddress)
at System.Net.Sockets.Socket.Bind(EndPoint localEP)
at System.ServiceModel.Channels.SocketConnectionListener.Listen()
--- End of inner exception stack trace ---
at System.ServiceModel.Channels.SocketConnectionListener.Listen()
at System.ServiceModel.Channels.BufferedConnectionListener.Listen()
at System.ServiceModel.Channels.ConnectionAcceptor.StartAccepting()
at System.ServiceModel.Channels.ConnectionDemuxer.StartDemuxing(OnViaDelegate viaDelegate)
at System.ServiceModel.Channels.Exclusi...For more information, see Help and Support Center at http://go.microsoft.com/fwlink/events.asp.
```

1. Open the Middleware Configuration Editor by clicking **Start > All Programs > Wonderware > MES > Utilities > Middleware Configuration Editor**.

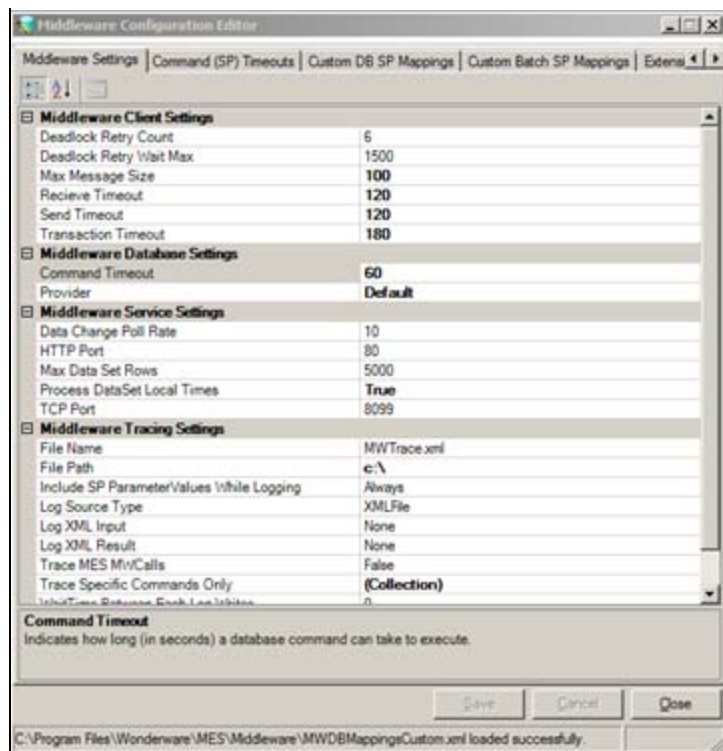


FIGURE 1: MIDDLEWARE CONFIGURATION EDITOR

You will see that **TCP Port** setting for the **Middleware Service Settings** is set to **8099**. The Application event error points to another application that is already using this port.

2. Open Command Prompt and run a **netstat -a**. This command returns all the ports being used.

```

C:\WINDOWS\system32\cmd.exe
TCP WyoSol3:1038 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:1043 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:1066 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:ns-sql-s WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:nsnq WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:2103 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:2105 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:2107 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:ns-olap4 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:3313 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:3317 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:3321 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:ns-ubt-server WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:5413 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:8090 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:8098 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:8099 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:9089 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:32444 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:32568 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:47001 WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:http WyoSol3.cimnet.com:3436 ESTABLISHED
TCP WyoSol3:nethios-ssn WyoSol3.cimnet.com:0 LISTENING
TCP WyoSol3:1216 WyoSol3.cimnet.com:ns-sql-s ESTABLISHED
TCP WyoSol3:1217 WyoSol3.cimnet.com:ns-sql-s ESTABLISHED

```

FIGURE 2: TCP PORTS IN USE

For best practice stay with 8090 to 8099 range. Figure 2 (above) shows that ports **8090**, **8098** and **8099** have been allocated by some other services.

We will use TCP port **8094** since it is not being used.

3. In the Middleware Configuration Editor we are going to change the Middleware Setting for TCP Port to **8094**.

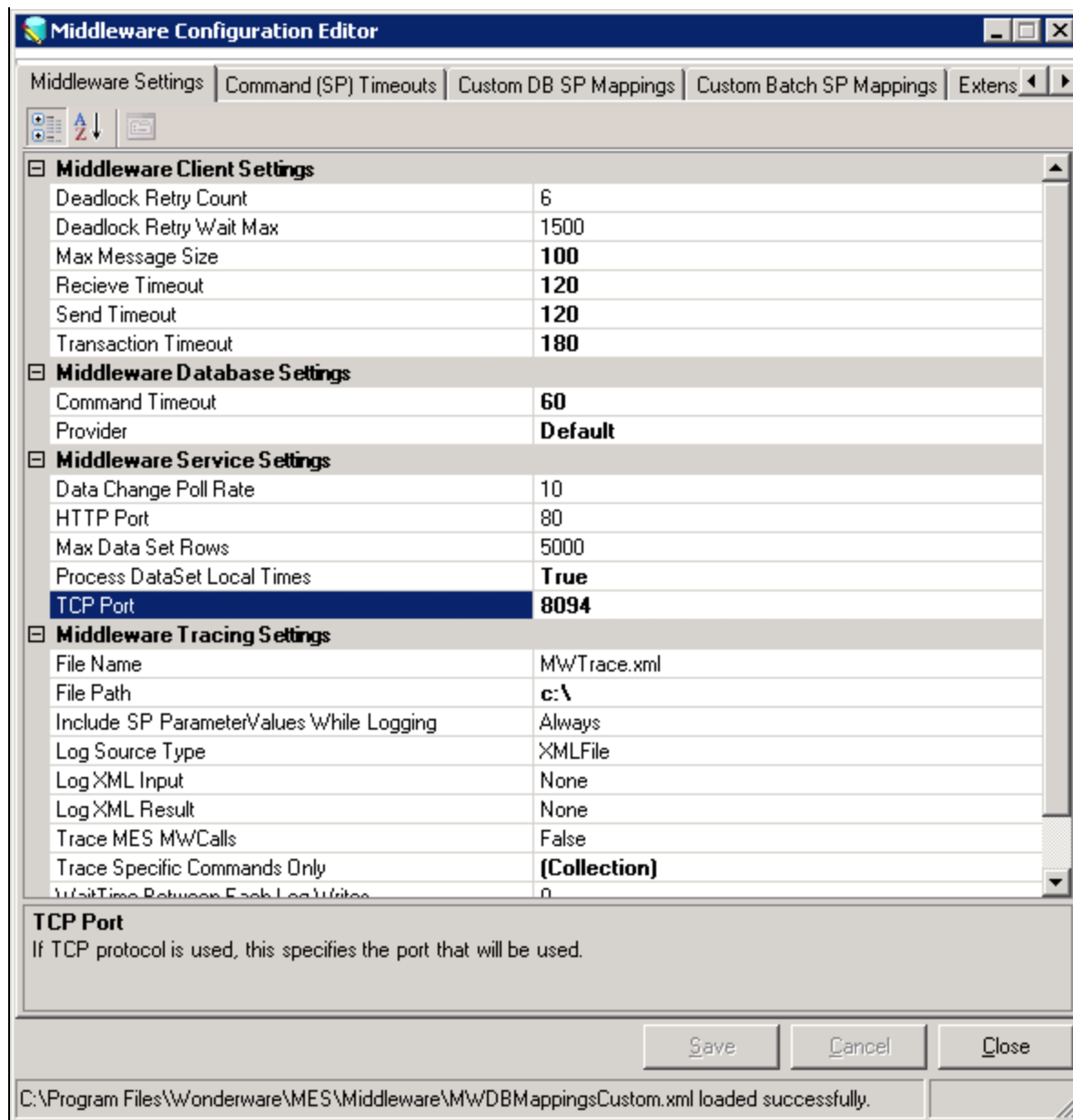


FIGURE 3: SET THE TCP PORT FOR AN UNUSED PORT

4. Click **Save** and restart the machine when you see the prompt.
5. After a restart of the machine the Middleware will start up.
6. Open Command Prompt and run **netstat -a**.

You will see that port **8094** is now returned as used/listening.

```

C:\WINDOWS\system32\cmd.exe
TCP        WyoSol3:2107          WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:ms-olap4     WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:ms-wbt-server WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:5413         WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:8090         WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:8094         WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:8098         WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:8099         WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:9089         WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:27000        WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:32444        WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:47001        WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:http         WyoSol3.cimnet.com:1637 ESTABLISHED
TCP        WyoSol3:netbios-ssn  WyoSol3.cimnet.com:0    LISTENING
TCP        WyoSol3:1591         PUMA:netbios-ssn       ESTABLISHED
TCP        WyoSol3:1596         IOMWY031544W:microsoft-ds ESTABLISHED
TCP        WyoSol3:1628         cimnet1.cimnet.com:microsoft-ds TIME_WAIT
TCP        WyoSol3:1635         WYOSOL1:netbios-ssn    TIME_WAIT
TCP        WyoSol3:1636         WyoSol3.cimnet.com:32444 ESTABLISHED
TCP        WyoSol3:1637         WyoSol3.cimnet.com:http ESTABLISHED
TCP        WyoSol3:ms-wbt-server IOMWY031544W:2400      ESTABLISHED
TCP        WyoSol3:32444        WyoSol3.cimnet.com:1636 ESTABLISHED
TCP        WyoSol3:1038         WyoSol3.cimnet.com:1040 ESTABLISHED
TCP        WyoSol3:1038         WyoSol3.cimnet.com:1061 ESTABLISHED
TCP        WyoSol3:1038         WyoSol3.cimnet.com:1069 ESTABLISHED

```

FIGURE 4: NETSTAT -A RETURNS PORT 8094

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