# Tech Note 747 MES 4.0 Middleware Does Not Start After Installation

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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.

#### MES 4.0 Middleware Does Not Start After Installation

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Deadlock Retry Court	6		
Max Maxana Can	100		
Max message size	100		
Recieve limeout	120		
Send Timeout	120		
Transaction Timeout	180		
El Middleware Database Settings			
Command Timeout	60		
Provider	Default		
El Middleware Service Settings			_
Data Change Poll Rate	10		
HTTP Port	80		
Max Data Set Rows	5000		
Process DataSet Local Times	True		
TCP Port	8099		
Middleware Tracing Settings			
File Name	MWTrace xml		
File Path	c:\		
Include SP ParameterValues While Logging	Always		
Log Source Type	XMLFile		
Log XML Input	None		
Log XML Result	None		
Trace MES MM/Calls	False		
Trace Specific Commands Only	(Collection)		2.0
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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 **nestat –a**. This command returns all the ports being used.

C:\WIN	DOW5\system32\cmd.exe		_	
TCP	WvoSo13:1038	WvoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:1043	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:1066	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSol3:ms-sql-s	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:msmg	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:2103	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:2105	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:2107	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:ms-o1ap4	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:3313	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:3317	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:3321	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:ms-wbt-server	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:5413	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:8090	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:8098	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:8099	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:9089	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:32444	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:32568	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:47001	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSol3:http	WyoSol3.cimnet.com:343	B6 ESTABLISHED	
TCP	WyoSol3:netbios-ssn	WyoSol3.cimnet.com:0	LISTENING	
TCP	WyoSo13:1216	WyoSol3.cimnet.com:ms-	-sql-s ESTABLISHED	-
TCP	WyoSo13:1217	WyoSol3.cimnet.com:ms-	-sq1-s ESTABLISHED	<b>•</b>

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.

Middleware Configuration Editor				
Middleware Settings Command (SP) Timeouts Cus	tom DB SP Mappings	Custom Ba	atch SP Mappings	Extens
2↓ □				
3 Middleware Client Settings				
Deadlock Retry Count	6			
Deadlock Retry Wait Max	1500			
Max Message Size	100			
Recieve Timeout	120			
Send Timeout	120			
Transaction Timeout	180			
Middleware Database Settings				
Command Timeout	60			
Provider	Default			
3 Middleware Service Settings				
Data Change Poll Rate	10			
HTTP Port	80			
Max Data Set Rows	5000			
Process DataSet Local Times	True			
TCP Port	8094			
3 Middleware Tracing Settings				
File Name	MWTrace.xml			
File Path	c:\			
Include SP ParameterValues While Logging	Always			
Log Source Type	XMLFile			
Log XML Input	None			
Log XML Result	None			
Trace MES MWCalls	False			
Trace Specific Commands Only	(Collection)			
1) (sitTime Retugen Esch Leg )) (rites	0			
FCP Port f TCP protocol is used, this specifies the port that w	ill be used.			
		<u>S</u> ave	Cancel	<u>C</u> lose
Program Files\Wonderware\MES\Middleware\MWI	DBMappingsCustom.xn	nl loaded su	ccessfully.	

FIGURE 3: SET THE TCP PORT FOR AN UNUSED PORT

- 4. Click **Save** and restrart 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 **nestat –a**.

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

C:\WIN	DOWS\system32\cmd.exe		
TCP	WyoSo13:2107	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:ms-olap4	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSol3:ms-wbt-server	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:5413	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:8090	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:8094	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:8098	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:8099	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:9089	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:27000	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:32444	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:47001	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSol3:http	WyoSol3.cimnet.com:1637_ESTABLISHED	
TCP	WyoSol3:netbios-ssn	WyoSol3.cimnet.com:0 LISTENING	
TCP	WyoSo13:1591	PUMA:netbios-ssn ESTABLISHED	
TCP	WyoSo13:1596	IOMWY031544W:microsoft-ds ESTABLISHED	
TCP	WyoSo13:1628	cimnet1.cimnet.com:microsoft-dsTIME_WAIT	
TCP	WyoSol3:1635	WYOSOL1:netbios-ssn TIME_WAIT	
TCP	WyoSo13:1636	WyoSol3.cimnet.com:32444 ESTABLISHED	
TCP	WyoSo13:1637	WyoSol3.cimnet.com:httpESTABLISHED	
TCP	WyoSol3:ms-wbt-server	IOMWY031544W:2400 ESTABLISHED	
TCP	WyoSo13:32444	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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