

MIMER

Installation Guide for Client/Server with Wollongong

OpenVMS VAX

Version 7.2.1

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MIMER version 7.2.1 Installation Guide for Client/Server with Wollongong,
OpenVMS VAX.

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1 INTRODUCTION

1.1 Document objectives

This guide is a supplement to the *MIMER Installation Guide for VMS* for those customers that use the network product WIN/TCP for VMS from Wollongong together with the MIMER client/server software. The guide describes how WIN/TCP should be setup to be used with MIMER client/server.

The reader should have a working knowledge of system management within the VMS environment. Familiarity with the WIN/TCP product is also recommended.

1.2 Acronyms and trademarks

Wollongong Wollongong is a registered trademark of the Wollongong Group, Inc.

(All other trademarks are the property of their respective holders.)

1.3 Software requirements

This document assumes that WIN/TCP V5.2 (or a later compatible version) is installed, and that the MIMER version is V7.2.1.

NOTE! MIMER/DB can not support WIN/TCP version 5.1. If the installation procedure finds a file named "twg\$tcp:<netdist>\$copyright.", it assumes that you have version 5.1, and installs MIMER/DB without network support.

The MIMER/DB client/server and TCP/IP support is included in the DB module. The installation procedure (MIMBUILD) automatically selects which TCP/IP product it should link its images against. When MIMBUILD selects the WIN/TCP product, the following lines are displayed:

```
Building DB
Using Wollongong TCP/IP routines found in twg$tcp:<netdist.lib>twglib.olb
```

The MIMBUILD procedure cannot support the WIN/TCP product unless the files [MIMVAX7.MDR]TCPW.OBJ and [MIMVAX7.MDR]WOLLINK.COM are present.

If there are several TCP/IP products on your system, the MIMBUILD procedure may choose another product. To force MIMBUILD to use WIN/TCP from Wollongong, alter the TCPIP parameter in the CONFIG.DAT file to WOL. Please read the *MIMER Installation Guide for VMS* for details.

The rest of this document assumes that you have executed the MIMBUILD procedure, and that it has included support for the WIN/TCP network product.

2 CLIENT/SERVER WITH WIN/TCP

2.1 WIN/TCP installation

To use MIMER/DB with WIN/TCP, the correct TCP/IP interface must have been included in the MIMER/DB shareable libraries. When the MIMBUILD procedure builds the DB module, a message is displayed on the screen if support for WIN/TCP from Wollongong is included.

2.2 Define the MIMER service

Sysdeco Mimer AB has reserved the service "mimer" with port number 1360 at the Internet Assigned Numbers Authority. Although you may use an other service name or port number you are strongly recommended to use service "mimer" with port 1360 for MIMER client/server communication.

The file TWG\$ETC:<000000>SERVICES. (note: no file type) contains a list of all known TCP/IP services and which port to use. You must enter a line in this file that says that the service mimer has port 1360. The file MIMLIB7:WOL_SERVICE.DAT contains the lines that should be entered:

```
$ TYPE MIMLIB7:WOL_SERVICE.DAT
#
# MIMER services
#
mimer          1360/tcp          mimernet
```

This file must be updated for both client and server support. The lines should be entered at the end of the TWG\$ETC:<000000>SERVICES. file. Please note that the file must end with one empty line!

2.3 Define the MIMER server

Whenever a client requests access to a database on the server node, the WIN/TCP product should create a server process for the client. This is done automatically if the service MIMER is properly defined in the file TWG\$ETC:<000000>SERVERS.DAT.

The SERVERS.DAT file contains a list of servers that are associated with different ports. To define that a MIMER database server should be started for requests to port 1360, you should enter the lines below at the end of this file. The file MIMLIB7:WOL_SERVER.DAT contains the lines that should be entered.

This file need only be updated if the node is to be a server node.

```
$ TYPE MIMLIB7:WOL_SERVER.DAT
# MIMER
service-name      Mimer
program           MIMEXE7:NETSRVM
socket-type       SOCK_STREAM
socket-options    SO_ACCEPTCONN | SO_KEEPALIVE
socket-address    AF_INET , 1360
working-set       2000
priority          4
INIT              TCP_Init
LISTEN            TCP_Listen
CONNECTED         TCP_Connected
SERVICE          Run_Program
```

2.4 Troubleshooting

Test the client/server connection by starting BSQL or QL on the client node, and try to log in on the server node. If you fail to log in, check the following:

- Has the client process defined the MIMER_DATABASE logical name?
- Is the database specified present in MIMLIB7:SQLHOSTS.DAT? Check upper/lower case. Check both the client and the server node.
- Is SQLHOSTS.DAT readable for the user on the client machine?
- Check that the mimer service is properly installed by running the command:

```
$ NETSTAT -A
```

The listing produced should contain a line that contains the "local address" *.mimer. Check this on both the server and client node.

- Check that the server node is reachable from the client node. You can use the ping program on the client node to do this:

```
$ PING FREKE 100 2
PING freke.mimer.se: 100 data bytes
108 bytes from 131.115.130.113: icmp_seq=0. time=10. ms
108 bytes from 131.115.130.113: icmp_seq=1. time=. ms

----freke.mimer.se PING Statistics----
2 packets transmitted, 2 packets received, 0% packet loss
round-trip (ms) min/avg(max 0/5/10
```

- To check if the connection request has reached the server node, you can do the following command (on the server node):

```
$ NETSTAT -S
```

This command will produce a long listing of statistics. Find the lines describing the number of connection requests, connection accepts, and connections established. Run the NETSTAT command before and after running a MIMER application on the client node. By comparing the output before and after the connection attempt, you can determine if the request reached the server node.

- If you suspect that a MIMER server was started but has died, you can use the VMS accounting system to check the termination status for recently executed processes. This is done by running the following command:

```
$ ACCOUNT/FULL/SINCE="<very recently>"/TYPE=PROCESS
```

This will help determine if the request from the client node resulted in the creation of a process on the server side.

- Please note that when the TCP/IP software starts the server process, it will use the same VMS user as the user that started the TCP/IP product. This means that if the TCP/IP product is started by user SYSTEM when the VMS node is booted, all MIMER server processes will run as user SYSTEM. You must make sure that this VMS user has access to the MIMER version 7 installation. Check this by logging in as this user on the server node and start QL or BSQL in multi-user mode. Check that the databases are accessible.