

# **MIMER**

## **Installation Guide for Client/Server with MultiNet**

**OpenVMS VAX**

**Version 7.2.1**

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MIMER version 7.2.1 Installation Guide for Client/Server with MultiNet,  
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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 MultiNet on VMS together with the MIMER client/server software. The guide describes how MultiNet 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 MultiNet product is also recommended.

## 1.2 Acronyms and trademarks

MultiNet          MultiNet is a registered trademark of TGV, Inc.

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

## 1.3 Software requirements

This document assumes that MultiNet V3.2 (or a later compatible version) is installed, and that the MIMER version is V7.2.1. (The sample session below is run towards MultiNet V3.4).

At least the following MultiNet packages must be installed to perform this installation:

- TCP/IP applications
- Netware server
- Include and library files

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 MultiNet product, the following lines are displayed:

```
Building DB
Using Multinet TCP/IP routines found in multinet:multinet_socket_library.exe
```

The MIMBUILD procedure cannot support the MultiNet product unless the following files are present:

- [MIMVAX7.MDR]TCPMULTI.OBJ
- [MIMVAX7.MDR]MULLINK.COM

If there are several TCP/IP products on your system, the MIMBUILD procedure may choose another product. To force MIMBUILD to use MultiNet, alter the TCPIP parameter in the CONFIG.DAT file to MUL. 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 MultiNet product.

## 2 CLIENT/SERVER WITH MULTINET

### 2.1 MultiNet installation

To use MIMER/DB with MultiNet, 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 MultiNet is included.

For more information about MultiNet, please read the publications *Introduction to MultiNet* and *MultiNet System Administrators' Guide*.

### 2.2 Define the MIMER service

Whenever a client requests access to a database on the server node, the MultiNet product should create a server process for the client. This is done automatically if the service MIMER is properly defined by the MultiNet Server Configuration Utility (SCU).

To define the MIMER service, use the following commands:

```
$ MULTINET CONFIGURE /SERVERS
MultiNet Server Configuration Utility 3.4(35)
[Reading in configuration from MULTINET:SERVICES.MASTER_SERVER]
SERVER_CONFIG>ADD MIMER
[Adding new configuration entry for service "MIMER"]
Protocol: [TCP] TCP
TCP Port number: 1360
Program to run: MIMEXE7:NETSRVM.EXE
[Added service MIMER to configuration]
[Selected service is now MIMER]
SERVER_CONFIG>SAVE
[Writing configuration to
MULTINET_COMMON_ROOT:[MULTINET]SERVICES.MASTER_SERVER.4]
SERVER_CONFIG>RESTART
%RUN-S-PROC_ID, identification of created process is 00000067
SERVER_CONFIG>QUIT
$
```

The port number 1360 specified above is reserved by Sysdeco Mimer AB at the Internet Assigned Numbers Authority. Although you may use another port number, you are recommended to use port 1360 for MIMER client/server communication.

## 2.3 Using MultiNet on the client node

If the MultiNet product is used on the client node, the server port number (usually 1360) specified in the MIMLIB7:SQLHOSTS.DAT file must be given numerically rather than as a service name.

## 2.4 Troubleshooting

### 2.4.1 Failed to attach

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, or corresponding?
- Is the database specified present in MIMLIB7:SQLHOSTS.DAT? Check upper/lower case. Check both the client and the server node.
- Is SQLHOSTS.DAT, or corresponding, readable for the user on the client machine?

- Check that the mimer service is properly installed by running the command:

```
$ MULTINET CONFIGURE /SERVERS
MultiNet Server Configuration Utility 3.4(35)
[Reading in configuration from MULTINET:SERVICES.MASTER_SERVER]
SERVER_CONFIG>SHOW/FULL MIMER
SERVER_CONFIG>QUIT
$
```

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

```
$ MULTINET PING SERVER
```

- 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.

If you wish to log connect attempts from MIMER do as follows:

```
$ MULTINET CONFIGURE /SERVERS
MultiNet Server Configuration Utility 3.4(35)
[Reading in configuration from MULTINET:SERVICES.MASTER_SERVER]
SERVER_CONFIG>SELECT MIMER
SERVER_CONFIG>SET LOG-FILE file-spec
SERVER_CONFIG>SET LOG-REJECTS TRUE
SERVER_CONFIG>SET LOG-ACCEPTS TRUE
SERVER_CONFIG>SAVE
[Writing configuration to
MULTINET_COMMON_ROOT:[MULTINET]SERVICES.MASTER_SERVER.5]
SERVER_CONFIG>RESTART
%RUN-S-PROC_ID, identification of created process is 00000067
SERVER_CONFIG>QUIT
$
```

### 2.4.2 Client process cleanup

If you have troubles with network processes that remains alive for a long time after its client process has "died" you should be aware of the fact that the MultiNet option **KEEPALIVE** makes MultiNet check for "hanging" network processes every second hour. If you wish this check to be performed more often, you should contact your MultiNet distributor for help.