VIDA* for DB2**

VIDA* Client for DB2** Installation Guide

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This book describes how to install VIDA Client for DB2 on a VMS system and run the Installation Verification Procedure (IVP).

OPERATING SYSTEM: VMS

SOFTWARE VERSION: VIDA for DB2 Version 1.0

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Preface

VIDA for DB2 is a software facility that lets VMS users retrieve data from IBM Database 2 (DB2) data tables on an IBM system. VIDA for DB2 is composed of two software products: VIDA Client for DB2 and VIDA Server for DB2. These two component products are installed on two different hardware platforms. VIDA Client for DB2 resides on a Digital VAX computer system and uses SNA gateway software to communicate with VIDA Server for DB2 which resides on an IBM mainframe.

Purpose of This Manual

This manual tells you how to install VIDA Client for DB2 Version 1.0 and is the only manual you need to install this product.

Intended Audience

Read this manual if you are responsible for:

- Planning the installation of VIDA Client for DB2 on your Digital network
- Preparing the system on which VIDA Client for DB2 will be installed
- Installing VIDA Client for DB2

Operating System Information

Your VAX system must be running Version 5.0 or higher of the VMS operating system before you can use VIDA Client for DB2 Version 1.0.

Other Software Requirements

VIDA Client for DB2 Version 1.0 must have access to the following software to complete data retrieval operations:

- VIDA Server for DB2 Version 1.0
- DECnet/SNA VMS APPC/LU 6.2 Programming Interface Version 2.1
- Gateway Products: DECnet/SNA Gateway or VMS/SNA
- Digital Interface product such as VAX SQL or VAX DATATRIEVE
- IBM applications and database software: ACF/VTAM, CICS/OS/VS Version 1 Release 7, and DB2 Version 1 Release 3

Structure

This manual contains four chapters and three appendixes:

Chapter 1	Explains how to plan the VIDA Client for DB2 installation and prepare your system.
Chapter 2	Explains how to install the VIDA Client for DB2 software.
Chapter 3	Discusses what to do after installing VIDA Client for DB2.
Chapter 4	Explains how to run the Live Installation Verification Procedure.
Appendix A	Provides a sample VIDA Client for DB2 installation procedure.
Appendix B	Lists the files transferred from the distribution kit to your system.
Appendix C	Provides a sample Live Installation Verification Procedure.

Related Documents

You can find additional information about VIDA for DB2 and VIDA Client for DB2 in the following manuals:

- *VIDA Client for DB2 Handbook*

  Describes how to use VIDA Client for DB2 to access IBM DB2 data tables. The handbook also contains information about different VAX products that you can use as interfaces to the IBM data.

- *VIDA Client for DB2 Release Notes*

  Discusses restrictions, problems, and workarounds for VIDA Client for DB2 Version 1.0.

Conventions

In examples, an implied carriage return occurs at the end of each line, unless otherwise noted. You must press the RETURN key at the end of a line of input.

The special symbols used in this book are:

Symbol	Meaning
$	The dollar sign is used to indicate the DCL prompt. This prompt might be different on your system.
COLOR	Color in examples shows user input.
. . .	Vertical ellipsis in an example means that information not directly related to the example has been omitted.

References to Products

The VIDA Client for DB2 documentation to which this book belongs often refers to other Digital products by their abbreviated names:

- VAX CDD/Plus software is referred to as CDD/Plus.
- VAX DATATRIEVE software is referred to as DATATRIEVE.
- VAX Rdb/VMS software is referred to as Rdb/VMS.
- VAX SQL software is referred to as SQL.

1

Preparing to Install VIDA Client for DB2

This chapter discusses the preparations and requirements necessary for installing VIDA Client for DB2.

VIDA for DB2 provides access to an IBM relational database product, Database 2 (DB2), from a VMS based environment. One component of VIDA for DB2 is VIDA Client for DB2, client software running on the VMS operating systems on VAX hardware. VIDA Client for DB2 communicates with the server product, VIDA Server for DB2, which is running on IBM hardware. VIDA Client for DB2 uses Digital supported communications products, such as DECnet/SNA Gateway, VMS/SNA, and DECnet/SNA VMS APPC/LU6.2 Programming Interface for the VAX to IBM communications link.

Your bill of materials (BOM) and indented bills report (BIL) specify the number and contents of your media. Be sure to verify the contents of your kit with this information. If your kit is damaged or if you find that parts of it are missing, contact your Digital representative.

VIDA Client for DB2 provides online release notes. Digital strongly recommends that you read the release notes before proceeding with the installation. For information on accessing online release notes, see Section 2.1.1.

1.1 Required Operating System Components

The VMS operating system comes with a variety of support options, or classes. Classes include such features as networking and RMS journaling. To use VIDA Client for DB2, your system should be running a version of VMS that includes the following classes:

- Program development
- Network support
- Secure user environment

- Utilities

1.2 Prerequisite Software

This section discusses the software you must have installed on your system before installing VIDA Client for DB2. The section also includes information about software that you can use together with VIDA Client for DB2. Please refer to the System Software Addendum (SSA) for a complete list of compatible products and their required version numbers. The SSA is part of the Software Product Description (SPD).

1.2.1 Software Requirements for VIDA Client for DB2 Installation

You can install VIDA Client for DB2 only after the software products listed below have been successfully installed. The VIDA Client for DB2 installation procedure checks for the prerequisite software and stops if either has not been installed:

- VMS Version 5.0 or higher
- DECnet/SNA VMS APPC/LU6.2 Programming Interface Version 2.1 or higher

1.2.2 Software Requirements for VIDA Client for DB2 Use

VIDA Server for DB2, which is the IBM side of VIDA for DB2, is not required for VIDA Client for DB2 installation. However, VIDA Server for DB2 is needed for VIDA Client for DB2 use. VIDA Server for DB2 installation is covered in the *VIDA Server for DB2 Handbook*.

The VIDA Client for DB2 Distribution Kit does not include a user interface through which you can retrieve data from an IBM system. Therefore, although the following products are not required for VIDA Client for DB2 installation, you cannot use VIDA Client for DB2 as part of the VIDA for DB2 product until you successfully install at least one of the following:

- VAX SQL Version 2.0 or higher.
- VAX DATATRIEVE Version 4.2 or higher.
- VAX Data Distributor Version 2.0 or higher.
- A programming language supported by the Rdb DML precompiler. If a programming language is your user interface to VIDA for DB2, then VAX Rdb/VMS Version 3.0 or higher must be installed on the same system as the programming language software.
- VAX TEAMDATA Version 1.3 or higher.

1.3 Prerequisite Hardware

You can install VIDA Client for DB2 only when your system meets or exceeds the minimum hardware requirements shown in the Software Product Description (SPD).

1.4 VMS License Management Facility

The VMS License Management Facility (LMF) is available with Version 5.0 of the VMS operating system. You can only install VIDA Client for DB2 on a VMS Version 5.0 system; therefore, you must register your software license.

The license registration information you need is contained in the Product Authorization Key (PAK) that is shipped with VIDA Client for DB2. The PAK is a paper certificate that contains information about the license you have that runs a particular piece of software.

You must register your VIDA Client for DB2 license *before* you perform the installation. During the installation, you are asked if you have registered and loaded the VIDA Client for DB2 license. If you have not already done so, answer "NO". Once you perform the license registration and load, you can restart the installation and choose to run the IVP.

To register a license under VMS Version 5.0, first log in to the system manager's account, SYSTEM. You then have a choice of two ways to perform the registration:

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When it prompts you for information, respond with data from your Product Authorization Key (PAK).
- Issue the LICENSE REGISTRATION DCL command with the appropriate qualifiers that correspond to information on the PAK.

If you plan to use VIDA Client for DB2 on more than one node in a VAXcluster, you will need to perform a license load on the other nodes after you complete this installation. See Section 3.3 for information on installing licenses on all nodes in a cluster.

For complete information on using LMF, see the manual on the License Management Utility in the VMS documentation set.

1.5 VAXcluster Considerations

The VIDA Client for DB2 installation procedure creates an account called RDB$REMOTE on your system, if the account does not already exist. Programs executing on remote nodes and accessing a VIDA for DB2 database on your node through DECnet can log on to your system through the RDB$REMOTE account. Invoking a database at a remote node requires the network to log in to an account and execute the RDBSERVER.EXE image.

The VIDA Client for DB2 installation procedure defines RDB$REMOTE as the default DECnet account for the RDBSERVER object. This definition supersedes (if RDB$REMOTE exists) any previous assignment you might have made in the Network Control Program (NCP) for RDBSERVER. The RDB$REMOTE account includes a password that you assign during the installation procedure. The password you provide is used for the RDB$REMOTE account and in the DECnet NCP object database on your VAX system. This means that the RDB$REMOTE password and the password assigned to the RDBSERVER.EXE image must be the same.

The RDBSERVER.EXE image manages remote database access. In a VAXcluster environment, the installation procedure assigns the same password to RDB$REMOTE and RDBSERVER.EXE only on the node from which the installation took place. After the installation procedure finishes and if your DECnet object database is not configured to be in the cluster common directory, you must run the RDBSERVER_NCP.COM procedure from the SYS$COMMON:[SYSMGR] account on each of the remaining VAXcluster nodes to insert the RDBSERVER object in the DECnet object database for those nodes.

The RDB$REMOTE account is assigned the proper process quotas and privileges to work with VIDA for DB2. Users can encounter problems with remote database access because the default DECnet account commonly does not have sufficient process quotas.

The RDB$REMOTE captive account does not require a SYLOGIN.COM procedure in the SYS$MANAGER account. However, if you encounter any errors using the RDB$REMOTE account, make sure that the SYS$SYLOGIN logical name (if defined) points to a working SYLOGIN.COM procedure.

As a captive account, RDB$REMOTE does, however, require its own login procedure. The login procedure for RDB$REMOTE is RDB$REMOTE_LOGIN.COM and is written to SYS$COMMON:[SYSEXE]. This login procedure includes security checks that ensure that the user is running the RDBSERVER.EXE image (DECnet object number 35). If you want any procedures executed during the RDB$REMOTE account login step, you must edit RDB$REMOTE_LOGIN.COM in the SYS$COMMON:[SYSEXE] directory after the installation and insert the appropriate DCL commands.

DECnet does not need to be running for a successful installation of VIDA Client for DB2. See your VAX DECnet manuals for additional information.

1.6 Installation Procedure Requirements

The following sections discuss various requirements for installing VIDA Client for DB2.

1.6.1 Time

The installation takes approximately five to twenty minutes, depending on your type of media and your system configuration.

Installing VIDA Client for DB2 and running the IVP on a standalone VAX 8200 system takes five minutes.

1.6.2 Privileges

To install VIDA Client for DB2 you must be logged in to an account that has SETPRV or at least the following privileges:

- CMKRNL
- EXQUOTA
- NETMBX
- OPER
- SYSNAM
- SYSPRV
- TMPMBX
- WORLD

Note that VMSINSTAL turns off the BYPASS privilege at the start of the installation.

1.6.3 Disk Space

Installing VIDA Client for DB2 requires a certain amount of free storage disk space during the installation. Once VIDA Client for DB2 is installed, less storage space is required. Table 1–1 summarizes the storage requirements for VIDA Client for DB2.

Table 1–1 Disk Space Requirements

Kit	Blocks During Installation	Blocks After Installation
VIDA Client for DB2 Version 1.0	3000	1900

To determine the number of free disk blocks on the current system disk, enter the following command at the DCL prompt:

```
$  SHOW DEVICE SYS$SYSDEVICE
```

1.6.4 System Parameters

Installing VIDA Client for DB2 requires certain system parameter settings. Table 1–2 lists the minimum required system parameter values for the installation. Depending on the kinds of programs and applications running at your site, you might need higher values for some settings.

Table 1–2 Required System Parameter Values

System Parameter	Value
CLISYMTBL[1]	250
GBLPAGES[2]	n + 36
GBLSECTIONS[2]	n + 2

[1]The CLISYMTBL dynamic system parameter must be set to a minimum value of 250 during the installation procedure. If the current CLISYMTBL setting is less than 250, you can lower the setting to its original value once the installation is finished.

[2]The n variable refers to the system parameter values that are currently in use. To install VIDA Client for DB2 you must raise those values by the number indicated. (See Section 1.6.4.2.)

The following sections show you how to:

- Check system parameter values
- Calculate values for the GBLPAGES and GBLSECTIONS system parameters
- Change parameter values with the VMS AUTOGEN command procedure
- Set the CLISYMTBL dynamic system parameter with the VMS System Generation Utility (SYSGEN)

1.6.4.1 Checking System Parameter Values

To check the values of your system parameters, enter the following command at the DCL prompt to invoke the System Generation Utility:

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>
```

At the SYSGEN> prompt, enter the SHOW command to display the value of a system parameter. The values displayed should equal or exceed the value of each parameter listed in Table 1–2. The following command displays the value for the CLISYMTBL system parameter:

```
SYSGEN>  SHOW CLISYMTBL
```

After you finish checking the parameters with the SHOW command, you can enter the EXIT command at the SYSGEN> prompt to return to DCL level.

1.6.4.2 Calculating the Values for GBLPAGES and GBLSECTIONS

To install and run VIDA Client for DB2, you must have sufficient free global pages and global sections. You must first find out how many free global pages and sections you have on your system. You use AUTOGEN to increase the GBLPAGES and GBLSECTIONS system parameters.

Use the WRITE command with the F$GETSYI lexical function to find the number of free global pages and global sections. The following example shows how to get this information at your terminal (the default for SYS$OUTPUT):

```
$ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLPAGES")
15848
$ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLSECTS")
24
```

If the numbers displayed by the system are greater than the numbers in Table 1–2, you do not need to increase the values for these parameters. If the number of free global pages or global sections is less than the value in Table 1–2, you must increase the system parameter setting.

Section 1.6.4.3 describes the procedures for increasing these values using AUTOGEN. Refer to the VMS System Management Subkit for information on using AUTOGEN.

1.6.4.3 Changing System Parameter Values with AUTOGEN

You use the AUTOGEN command procedure to change system parameters. AUTOGEN automatically adjusts values for parameters that are associated with the ones you reset manually. To change system parameters with AUTOGEN, you must edit the following file:

```
SYS$SYSTEM:MODPARAMS.DAT
```

Use an editor to access the file. If you need to change a parameter value that is already in the SYS$SYSTEM:MODPARAMS.DAT file, simply delete the current value associated with that parameter and enter the new value.

To add a new value, add a line to the MODPARAMS.DAT file. The line contains the name of the parameter and its value. For example:

```
WSMAX = 1024
```

To modify incremental parameters such as GBLPAGES and GBLSECTS, use ADD_. The following example increases the global page setting by 2000:

```
ADD_GBLPAGES = 2000
```

After you have made all your changes, exit from the editor and run the AUTOGEN procedure to recalculate your system parameters. Enter the following command at the DCL prompt:

```
$  @SYS$UPDATE:AUTOGEN GETDATA REBOOT
```

When you specify REBOOT, AUTOGEN performs an automatic system shutdown and reboots when it has finished. Any users logged on to the system are immediately disconnected during the shutdown. The automatic reboot puts the new parameter values into effect.

The Autogen Utility automatically adjusts some of the SYSGEN parameters based on the consumption of resources since the last reboot. If you do not want to take advantage of this automatic adjustment, include the /NOFEEDBACK qualifier on the AUTOGEN command line.

For more information about using AUTOGEN, see the VMS System Management Subkit.

1.6.4.4 Setting the CLISYMTBL Dynamic System Parameter If the CLISYMTBL system parameter value for your system is less than 250, change the setting by using the following series of commands:

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>  USE ACTIVE
SYSGEN>  SET CLISYMTBL 250
SYSGEN>  WRITE ACTIVE
SYSGEN>  EXIT
```

Dynamic parameters changed with the System Generation Utility's WRITE ACTIVE command become active immediately without any need to reboot your system. In fact, rebooting returns dynamic system parameter values to their previous settings. Once you set the CLISYMTBL value, you should complete the installation before rebooting the system.

After the installation is complete, you can reset CLISYMTBL to its previous setting or let it be reset automatically when you reboot your system.

1.6.5 Process Account Quotas

The account you use to install VIDA Client for DB2 must have sufficient quotas to enable you to perform the installation. Table 1–3 summarizes the process quotas required for the installation account.

Table 1–3 Process Account Quotas for the Installing Account

Account Quota	Value
ASTLM	24
BIOLM	18
BYTLM	18,000
DIOLM	18
ENQLM	30
FILLM	20
PRCLM	2
WSDEF	200[1]

[1]The values for WSEXT and WSQUO must be equal to or greater than the WSDEF value.

User account quotas are stored in the file SYSUAF.DAT. You use the VMS Authorize Utility to verify and change user account quotas. First set your directory to SYS$SYSTEM and then run AUTHORIZE:

```
$  SET DEFAULT SYS$SYSTEM
$  RUN AUTHORIZE
UAF>
```

At the Authorize Utility prompt (UAF>), use the SHOW command with an account name to check a particular account. For example:

```
UAF>  SHOW SMITH
```

To change a quota, use the MODIFY command at the UAF> prompt. MODIFY has the following format:

MODIFY account-name /quota-name=nnnn

The following example changes the FILLM quota for the SMITH account and then exits from the Authorize Utility:

```
UAF>  MODIFY SMITH /FILLM=50
UAF>  EXIT
```

After you exit from the utility, the VMS system displays messages indicating whether or not changes were made. Once the changes have been made, you must log out and log in again for the new quotas to take effect.

For more information on modifying account quotas, see the description of the Authorize Utility in the VMS documentation set.

1.6.6 VMSINSTAL Requirements

When you invoke VMSINSTAL, it checks the following:

- Whether you have set your default device and directory to SYS$UPDATE
- Whether you are logged in to a privileged account
- Whether you have adequate quotas for installation
- Whether DECnet is up and running
- Whether any users are logged in to the system

Note that the VMSINSTAL requires that the installation account have a minimum of the following quotas:

ASTLM = 24
BIOLM = 18
BYTLM = 18,000
DIOLM = 18
ENQLM = 30
FILLM = 20

If VMSINSTAL detects any problems during the installation, it notifies you of the problem and asks if you want to continue the installation. In some instances, you can enter YES to continue. To stop the installation process and correct the situation, enter NO or press RETURN. Then correct the problem and restart the installation.

1.6.7 Backing Up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you do a system disk backup before installing any software on top of the operating system.

Use the backup procedures that have been established at your site. For details on performing a system disk backup, see the section on the Backup Utility in the VMS documentation set.

1.6.8 VIDA Client for DB2 Requirements

VIDA Client for DB2 checks for the DECnet/SNA VMS APPC/LU6.2 Programming Interface Version 2.1 or higher. The Programming Interface enables a VMS application and an SNA application to take part in a distributed transaction environment that uses IBM Advanced Program-to-Program Communication. DECnet/SNA VMS APPC/LU6.2 release notes are available in the following directory:

```
SYS$HELP:SNALU62021.RELEASE_NOTES
```

2

Installing VIDA Client for DB2

This chapter describes how to install VIDA Client for DB2. Section 2.2 contains a step-by-step description of the installation procedure.

2.1 General Information

This section includes information about the following topics:

- Accessing release notes
- Determining files added to your system
- Running the Installation Verification Procedure (IVP)
- Aborting the installation

2.1.1 Accessing the Online Release Notes

VIDA for DB2 provides online release notes. You must specify OPTIONS N when you invoke VMSINSTAL to see the question about online release notes. This question comes near the beginning of the installation.

You should review the release notes in case they contain any information about changes in the installation procedure. If you are starting the installation over again and have already reviewed the release notes, you do not need to specify OPTIONS N.

Once VIDA Client for DB2 has been installed, the release notes are located in the following file:

```
SYS$HELP:VIDA2$010.RELEASE_NOTES
```

Online help also directs you to the release notes file. After the installation, you can enter the following command to review the release notes through the Help facility:

```
$  HELP VIDA_DB2 RELEASE_NOTES
```

Note that hardcopy release notes are included with the documentation set for VIDA Client for DB2.

2.1.2 Determining the Files Added to the System

The files added to the system during VIDA Client for DB2 installation are listed and described in Appendix B of this installation guide.

2.1.3 Running the Installation Verification Procedure (IVP)

The Installation Verification Procedure (IVP) for VIDA Client for DB2 verifies the installation. During the installation, you are asked if you want to run the IVP as part of the installation. If you respond YES, VMSINSTAL automatically runs the IVP. It is recommended that you run this IVP to be sure that VIDA Client for DB2 is installed correctly.

After VIDA Client for DB2 is installed, you can run the installation IVP independently to verify that the software is available on your system. Run the installation IVP procedure at any time. Execute this IVP procedure with the following:

```
$   SET DEF SYS$COMMON:[SYSTEST.VIDA2$TEST]
$   @VIDA2$IVP
```

The VIDA Client for DB2 installation offers a second IVP, VIDA2$LIVE_IVP. The installation IVP, VIDA2$IVP, only verifies the installation of VIDA Client for DB2. It does not test the hardware link from the VAX to the IBM system, nor does it test the software link from VIDA Client for DB2 to VIDA Server for DB2. The second, or Live IVP, *does* test the hardware and software links from the VAX to the IBM system.

After the VIDA Server for DB2 installation is complete and the gateway system is set up, you can run the Live IVP. This command procedure checks the installation of VIDA Client for DB2, sets up the user environment, invokes SQL to enter a query, compares the result of the query to expected results and reports the differences, and indicates if the Live IVP completed successfully. Invoke the Live IVP with the following:

```
$   SET DEF SYS$COMMON:[SYSTEST.VIDA2$TEST]
$   @VIDA2$LIVE_IVP
```

Refer to Chapter 4 for information on running the Live IVP.

2.1.4 Aborting the Installation

To abort the installation procedure at any time, press CTRL/Y. When you press CTRL/Y, the installation procedure deletes all files it has created up to that point and exits. You can then start the installation again.

2.2 The Installation Procedure

The VIDA Client for DB2 installation process consists of a series of questions and informational messages.

2.2.1 Invoking VMSINSTAL

To start the installation, invoke the VMSINSTAL command procedure from a privileged account, such as the SYSTEM account. VMSINSTAL is in the SYS$UPDATE directory. You use the following syntax to invoke VMSINSTAL:

@SYS$UPDATE:VMSINSTAL product-name device-name OPTIONS N

product-name
The installation name for the component. For VIDA Client for DB2 use the following installation name: VIDA2

device-name
The name of the device on which you plan to mount the media. For example, MTA0: is the device name for a tape drive. It is not necessary to use the console drive for this installation. However, if you do use the console drive, you should replace any media you removed once the installation is complete.

OPTIONS N
An optional parameter that indicates you want to see the release notes question. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes. You should review the release notes before proceeding with the installation in case they contain new information about the installation.

Note that there are several other options you can select when you invoke VMSINSTAL. See the VMS documentation on software installation in the VMS System Management Subkit for information on these options.

The following example displays the command to invoke VMSINSTAL to install VIDA Client for DB2 from tape drive MTA0: and shows the system response. This example uses the OPTIONS N release note parameter.

```
$  @SYS$UPDATE:VMSINSTAL VIDA2 MTA0: OPTIONS N

      VAX/VMS Software Product Installation Procedure V5.0-1


It is 30-AUG-1989 at 09:18.
Enter a question mark (?) at any time for help.
```

If you do not supply either the product name or the device name, VMSINSTAL prompts you for this information later in the installation procedure. VMSINSTAL does not prompt you for any options, so be sure to include OPTIONS N on the VMSINSTAL command line to access the release notes during the installation.

2.2.2 Answering Installation Questions

This section discusses the questions that are displayed during the installation. Appendix A contains a sample installation procedure showing how the questions can be answered.

Each question in the installation is marked with an asterisk (*) at the beginning of the line. Some questions show the default response in brackets, for example [YES]. If you want to use the default response, press the RETURN key.

1 DECnet status

If you are operating under VMS Version 5.0-1 or higher, VMSINSTAL notifies you if DECnet is running and displays a list of all active processes. It then asks if you want to continue the installation. NO is the default response to the question. Under VMS Version 5.2, the network status is no longer checked when VMSINSTAL begins. Therefore, you are not asked if you would like to continue the installation.

The display for VMS Version 5.0-1 is as follows:

```
%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
    .
    .
    .
* Do you want to continue anyway [NO]?
```

2 System backup

VMSINSTAL asks if you are satisfied with your system backup. You should always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press RETURN. Otherwise, enter NO to discontinue the installation. After you back up your system disk, you can restart the installation.

```
* Are you satisfied with the backup of your system disk [YES]?
```

3 Mounting the media

You should now mount the first distribution volume on the device you specified when you invoked VMSINSTAL. The device name appears in the line preceding the question. VMSINSTAL then asks where the distribution volumes will be mounted.

If you respond YES to indicate that you are ready, VMSINSTAL displays a message stating the media containing VIDA Client for DB2 has been mounted on the specified device and the installation has begun. For example:

```
Please mount the first volume of the set on MTA0:.
* Are you ready? YES
%MOUNT-I-MOUNTED, VIDA2 MOUNTED ON _$$MTA0:  (NODE1)
The following products will be processed:
   VIDA2 V1.0

    Beginning installation of VIDA2 V1.0 at 09:19

%VMSINSTAL-I-RESTORE, Restoring product saveset A...
```

If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter NO in response to the "Are you ready?" question. To abort the installation for any reason, press CTRL/Y.

4 Release Notes

If you specified OPTIONS N when you started the installation, VMSINSTAL asks a release note question. You have five options for handling the release notes under VMS Version 5.0-1 or higher, four options under VMS Version 5.2. Under VMS Version 5.2, release notes are always copied to SYS$HELP.

For VMS Version 5.0-1 or higher, you see the following display:

```
Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  Copy release notes to SYS$HELP
 5.  Do not display, print or copy release notes

* Select option [2]:
```

The display for VMS Version 5.2 is as follows:

```
Release Notes included with this kit are always copied to SYS$HELP.

Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above

* Select option [2]:
```

If you select option 1, VMSINSTAL displays the release notes immediately on the console terminal. You can terminate the display at any time by pressing CTRL/C.

If you select option 2, VMSINSTAL prompts you for the name of the print queue that you want to use:

```
* Queue name [SYS$PRINT]:
```

You can press RETURN to send the file to the default output print device or you can enter another queue name.

If you select option 3, VMSINSTAL displays the release notes immediately on the console terminal and then prompts you for a queue name for the printed version.

Option 4, under VMS Version 5.0-1 or higher, causes the installation to copy the release notes to the help directory. (Even if you do not select option 4, the release notes for VIDA for DB2 are copied to the SYS$HELP directory.)

Select option 5 if you are running VMS Version 5.0-1 and have already reviewed the release notes and are restarting the installation.

5 Continuing the installation

The installation procedure now asks if you want to continue the installation. To continue, enter YES. Otherwise, press RETURN. In either case, the release notes are copied to a file in the SYS$HELP directory. For example:

```
* Do you want to continue the installation [N]?:  YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been successfully
                                   moved to SYS$HELP.
```

The release notes are located in the following file:

```
SYS$HELP:VIDA2$010.RELEASE_NOTES
```

6 Checking system requirements

While the installation procedure checks several system requirements, the following messages are displayed:

```
*******************************************************

Installation procedures for: VIDA/DB2 V1.0

*******************************************************

*******************************************************

Checking system requirements ...

*******************************************************
```

The installation procedure displays an error message and aborts if the procedure finds that your system does not have the following software and hardware requirements:

- VMS Version 5.0 or higher
- DECnet/SNA VMS APPC/LU6.2 Programming Interface Version 2.1 or higher
- DECnet/SNA VMS APPC/LU6.2 Programming Interface Version 2.1 license
- Adequate disk space

- Adequate free global pages and global sections

If you encounter an error at this point, take the steps necessary to meet your system requirements and restart the installation procedure.

7 License registration

The installation procedure displays license information about your product and then asks if you have registered and loaded your authorization key for VIDA Client for DB2. For example:

```
Product:       VIDA
Producer:      DEC
Version:       1.0
Release Date:  30-JUN-1989

* Does this product have an authorization key registered and loaded?
```

If you have not registered and loaded your authorization key, you must answer "NO" to this question. You have to register and load your product authorization key to successfully complete the installation. If you have not done so, you should stop the installation, register and load your product authorization key, and then restart the installation. If you encounter any LMF error messages, refer to the *VMS License Management Utility Manual*.

Note *The installation procedure checks for the DECnet/SNA VMS APPC/LU6.2 Programming Interface registration. However, no questions prompt you for information on the registration.*

8 Entering the UIC and password for the RDB$REMOTE account.

The installation procedure displays a series of messages and questions about the RDB$REMOTE account:

```
************************************************************

This installation requires the creation of the RDB$REMOTE
account.  You MUST choose a UIC and password for this
account.  PLEASE NOTE that your password for the RDB$REMOTE
account and the network object RDBSERVER MUST be exactly the
same.  The password you supply for the RDB$REMOTE account
will be used for the network object as well IF the account is
created by this installation.

*************************************************************

*************************************************************
The installation procedure will not proceed until you enter a
valid user identification code (UIC) for the RDB$REMOTE
account.
*************************************************************

* Please enter UIC to be used for RDB$REMOTE account (e.g. [ggg,mmm]):
```

You must supply a valid UIC or the installation procedure cannot continue.

When a valid UIC has been provided, the installation procedure then displays an informational message about entering password information:

```
*************************************************************

The entire installation will FAIL if you do not enter a valid
password for the RDB$REMOTE account.  You will be given
3 chances to verify your password.  This installation
procedure requires at least 6 characters for the
RDB$REMOTE password.  Valid characters for a password are:

   A through Z
   a through z
   0 through 9
   $ (dollar sign)
   _ (underscore)

As with the DCL SET PASSWORD command, your input will not
appear on the terminal.  And to protect against typing errors
that are not seen when entering the password, you must enter
the password twice.

**************************************************************

* Please enter PASSWORD to be used for RDB$REMOTE account:

* Please verify the PASSWORD entered for RDB$REMOTE:
```

9 Choosing to purge files

You have the option to purge files from previous versions of VIDA Client for DB2 that are superseded by this installation. Purging is recommended; however, if you need to keep files from the previous version, enter NO in response to the question. If this is a Version 1 software, enter the default response [YES].

```
* Do you want to purge files replaced by this installation [YES]?
```

10 Choosing to run the Installation Verification Procedure (IVP)

The installation procedure now asks if you want to run the Installation Verification Procedure. This question is in reference to the installation IVP. This IVP for VIDA Client for DB2 checks to be sure that the installation is successful. It is recommended that you run the installation IVP.

```
* Do you want to run the IVP after the installation [YES]?
```

2.2.3 Understanding Informational Messages

At this point, the installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. If the installation procedure has been successful up to this point, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary. If you asked for files to be purged, that work is done now. The following messages are displayed:

```
    ****************************************************************

    There are no more questions.  The installation takes ap-
    proximately 5 minutes on a stand-alone VAX 8200.

    ****************************************************************

    ****************************************************************

    Beginning installation ...

    ****************************************************************

    ****************************************************************

    Installing under VMS V5.0-1 - 30-AUG-1989 09:21

    ****************************************************************

%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                               VMI$ROOT:[SYSTEST.VIDA2$TEST]
    ****************************************************************

    The VIDA2 IVP has been placed in SYS$COMMON:[SYSTEST.VIDA2$TEST].
    You may run this procedure separately any time you wish.  To
    execute it, type:

    $  SET DEF SYS$COMMON:[SYSTEST.VIDA2$TEST]
    $  @VIDA2$IVP

    ****************************************************************

    ****************************************************************

    The live VIDA2 IVP has been placed in
    SYS$COMMON:[SYSTEST.VIDA2$TEST].
    You may run this procedure separately after the environment
    has been set up.
    To execute it, type:

    $ SET DEF SYS$COMMON:[SYSTEST.VIDA2$TEST]
    $ @VIDA2$LIVE_IVP

    ****************************************************************

    ****************************************************************

    Adding VIDA2 help to the DCL help library

    ****************************************************************
```

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                   VMI$ROOT:[RDB$REMOTE].

%VIDA2-I-ACCOUNT, This installation creates an account named RDB$REMOTE.

RDBSERVER has been placed in the DECnet object database as number 35.

    *****************************************************************

    SYSTEM MANAGER:

    If your DECnet object database is not configured to be in
    the cluster common directory, then you will need to perform
    the following:

    In order to have remote access on another node which shares
    this cluster common root directory, you must insert
    RDBSERVER.EXE into that node's DECnet object database by:

        a) Logging into that node, and
        b) Invoking SYS$COMMON:[SYSMGR]RDBSERVER_NCP.COM.

    This command procedure inserts RDBSERVER into the node's
    permanent DECnet object database.  This procedure only needs
    to be executed ONCE per node.

    This command procedure will prompt for a password for
    the object RDBSERVER.  This password must match the
    password established for the account.

    *****************************************************************

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

    *****************************************************************

    *******************************************************************

    The VIDA Client for DB2 IVP verifies that all files are properly in
    place.  It does not test the hardware link from the VAX
    to the IBM system, nor does it test the software link
    from VIDA Client to VIDA Server for DB2.

    Once the VIDA Server for DB2 software has been installed on
    your IBM system and your communications environment has been
    set up, you should try running the VIDA2$LIVE_IVP.  If the
    VIDA2$LIVE_IVP completes successfully, then everything is
    installed properly.

    *****************************************************************

    *****************************************************************

    Performing VIDA/DB2 IVP for: VIDA/DB2 V1.0

    *****************************************************************
```

Some common images are provided with all DSRI-compliant database products. During the VIDA Client for DB2 installation, common images are not replaced, for example, if the version on the system is more recent that the image being installed. The messages displayed in this case are as follows:

```
%VIDA2-I-NOTINSTALLED, VMI$KWD:RDBSHR.EXE was not installed by this kit

%VIDA2-I-REASON, Image ident version of new file is the same as current
                                    file
```

VIDA Client for DB2 displays messages of this type just before the message about moving files to other directories.

2.2.4 Running the Installation Verification Procedure

If you chose to run the IVP, VMSINSTAL runs it now. When the IVP runs successfully, you see the following display:

```
****************************************************

VIDA/DB2 V1.0 IVP completed successfully

****************************************************
```

2.2.5 Completing the Installation Procedure

The following messages indicate that the entire installation procedure is complete:

```
   Installation of VIDA2 V1.0 completed at 09:28

   VMSINSTAL procedure done at 09:28
```

You can now log out of the privileged account:

```
$  LOGOUT
SYSTEM     logged out at 30-AUG-1989 at 09:41:36:50
```

Note that VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, if you are going to continue using the system manager's account and you want to restore these symbols, you should log out and log in again.

2.3 Error Recovery

If errors occur during the installation itself or when the IVP is running, VMSINSTAL displays failure messages. If the installation fails, you see the following message:

```
%VMSINSTAL-E-INSFAIL, The installation of VIDA2 V1.0 has failed.
```

If the IVP fails, you see these messages:

```
The VIDA/DB2 V1.0 Installation Verification Procedure failed.

%VMSINSTAL-E-IVPFAIL, The IVP for VIDA/DB2 V1.0 has failed.
```

Errors can occur during the installation if any of the following conditions exist:

- The operating system version is incorrect.
- A prerequisite software version is incorrect or not installed.
- A prerequisite software license has not been registered and loaded.
- Quotas necessary for successful installation are insufficient.
- System parameter values for successful installation are insufficient.
- The VMS help library is currently in use.
- The product license has not been registered and loaded.

For descriptions of the error messages generated by these conditions, see the VMS documentation on system messages, recovery procedures, and VMS software installation. If you are notified that any of these conditions exist, you should take the appropriate action as described in the message. (You might need to change a system parameter or increase an authorized quota value.) For information on installation requirements, see Chapter 1.

3 After Installing VIDA Client for DB2

After installing VIDA Client for DB2, you need to perform the following tasks:

- Modify system parameter settings
- Set user account quotas
- Install licenses on all nodes in a cluster
- Execute RDBSERVER_NCP.COM in VAXclusters
- Meet ALL-IN-1 requirements
- Ensure VIDA Client for DB2 works with Data Distributor
- Test the VIDA Client for DB2 installation and the link to the IBM system

This chapter also explains how to run the automatic Installation Verification Procedure (IVP) independently after the software has been installed.

3.1 Modifying System Parameters

The installation for VIDA Client for DB2 requires that you raise the value of the CLISYMTBL system parameter. Once the installation is complete, you should lower this value to ensure efficient system performance.

3.2 Setting User Account Requirements

To work with VIDA Client for DB2, user accounts on your system must have certain privileges and quotas. The next two sections contain information on these requirements.

3.2.1 Privileges

To use VIDA Client for DB2, each account must have at least the TMPMBX and NETMBX privileges. Use the VMS Authorize Utility to determine whether users have the privileges they require.

3.2.2 User Account Quotas

In most cases, default values for system quotas (refer to Table 1–3) are adequate for VIDA for DB2 users. However, VIDA for DB2 users who submit batch jobs and who use VIDA for DB2 with VMS/SNA might need a FILLM quota greater than 20. If a VIDA for DB2 user encounters the error "quota exceeded," increase the user's FILLM quota to 30.

User account quotas are stored in the file SYSUAF.DAT. You use the VMS Authorize Utility to verify and change user account quotas. First set your directory to SYS$SYSTEM and then run AUTHORIZE:

```
$  SET DEFAULT SYS$SYSTEM
$  RUN AUTHORIZE
UAF>
```

At the Authorize Utility prompt (UAF>), enter the SHOW command with an account name to check that particular account. For example:

```
UAF>  SHOW SMITH
```

To change a quota, use the MODIFY command at the UAF> prompt. MODIFY has the following syntax:

MODIFY account-name /quota-name=nnnn

The following example changes the FILLM quota for the SMITH account and then exits from the utility:

```
UAF>  MODIFY SMITH /FILLM=30
UAF>  EXIT
```

After you exit from the utility, the VMS system displays messages indicating whether or not changes were made. Once you have finished making the changes, the users must log out and log in again for the new quotas to take effect.

For more information on modifying account quotas, see the description of the Authorize Utility in the VMS documentation set.

3.3 Installing Licenses on All Nodes in a Cluster

A license should be installed on all the nodes in a cluster. If you try to run VIDA for DB2 on a clustered node that does not have the required licenses registered, you receive an error message.

Complete the following steps to install the licenses on all nodes in your cluster:

1. Install the license on one node by entering the following command:

   ```
   $  @SYS$UPDATE:VMSLICENSE.COM
   ```

2. Load the license on the rest of the nodes in the cluster:

   ```
   $  LICENSE LOAD VIDA
   ```

If you encounter any errors, refer to the *VMS License Management Utility Manual*.

3.4 Executing RDBSERVER_NCP.COM in VAXclusters

If your DECnet object database is not configured to be in the cluster common directory (the default starting in VMS Version 4.4), you must insert the RDBSERVER object in each node's DECnet object database. This action enables remote database access on nodes sharing the cluster common directory.

Follow these steps:

1. Log in to each node.
2. Invoke SYS$COMMON:[SYSMGR]RDBSERVER_NCP.COM.

   The RDBSERVER_NCP.COM procedure prompts for the password to assign to the RDBSERVER object. For remote database access to work, you must assign the password entered during the VIDA Client for DB2 installation procedure. For example, if PASSERBY_WORD was the password you assigned to the RDB$REMOTE account during the installation procedure on a VAXcluster node MOE, you must log in to each remaining node and perform the following procedures:

   ```
   $ SET DEFAULT SYS$COMMON:[SYSMGR]
   $ @RDBSERVER_NCP

   Please enter the password for object name RDBSERVER:  PASSERBY_WORD
   Please verify password:  PASSERBY_WORD
   ```

3.5 Meeting ALL-IN-1 Requirements

If you do not have ALL-IN-1 installed on your system, proceed to the next section.

VIDA Client for DB2 includes images that have to be installed with the VMS Install Utility (INSTALL) to ensure that ALL-IN-1 works properly. The VMS operating system requires that all image files activated by a privileged image be installed using the VMS Install Utility. ALL-IN-1 is a privileged image that activates all the images in the SYS$SHARE directory and the message file images that are subordinate to the images in SYS$SHARE. If you are installing VIDA Client for DB2 on a system that runs ALL-IN-1, you should use INSTALL to add any of the following images that were not installed for ALL-IN-1 before you installed VIDA Client for DB2:

```
RUN SYS$SYSTEM:INSTALL
INSTALL> ADD SYS$SHARE:VIDA2SHR.EXE
INSTALL> ADD SYS$SHARE:RDBSHR.EXE
INSTALL> ADD SYS$SHARE:SNALU62SH.EXE
INSTALL> ADD SYS$MESSAGE:VIDA2$MESSAGE.EXE
INSTALL> ADD SYS$MESSAGE:RDBMSGS.EXE
INSTALL> ADD SYS$MESSAGE:RDBBMSGS.EXE
INSTALL> ADD SYS$MESSAGE:RDMSMSG.EXE
INSTALL> ADD SYS$MESSAGE:VIDA_MESSAGE.EXE
```

Modify your system startup command file to include an INSTALL command for all of the preceding files. (Your system startup command file might already include INSTALL commands for RDBSHR.EXE and some of the message images, if Rdb/VMS or another DSRI product is installed on your system.)

3.6 Ensuring VIDA Client for DB2 Works with Data Distributor

If you do not have Data Distributor installed on your system, proceed to the next section.

The VIDA Client for DB2 installation includes images that you might need to install with the VMS Install Utility (INSTALL) to make sure that Data Distributor works properly with VIDA Client for DB2. The VMS operating system requires that all image files activated by a privileged image be installed using INSTALL. Data Distributor is a privileged image that activates some of the images in the SYS$SHARE directory and the message file images that are subordinate to the images in SYS$SHARE.

If you are installing VIDA Client for DB2 on a system that runs Data Distributor, you should use INSTALL to add any of the following images that were not installed for Data Distributor before you installed VIDA Client for DB2:

```
RUN SYS$SYSTEM:INSTALL
INSTALL> ADD SYS$SHARE:VIDA2SHR.EXE
INSTALL> ADD SYS$MESSAGE:VIDA2$MESSAGE.EXE
INSTALL> ADD SYS$SHARE:SNALU62SH.EXE
```

Modify your system startup command file to include an INSTALL command for each of these files.

3.7 Installing VIDA Client for DB2 as a Shared Image

If you expect VIDA Client for DB2 to be used extensively on your system, you can reduce the system overhead and memory requirements by installing it as a shared image. To install VIDA Client for DB2 as a shared image on a system that is currently running, use the VMS Install Utility (INSTALL). It is recommended that you perform the install operation on a system that has just been rebooted because the available space in the global page table is less likely to be fragmented.

To install VIDA Client for DB2 as a shared image, first determine the number of available global pages and global sections on your system. See Section 1.6.4.2 for information on how to verify and modify the number of global pages and global sections. Table 1–2 contains the required values for these parameters.

Once you have reset the system parameter values, invoke the VMS Install Utility from a privileged account and then install VIDA Client for DB2 as a shared image:

```
INSTALL :== "$SYS$SYSTEM:INSTALL /COMMAND_MODE"

$  INSTALL
INSTALL>  ADD SYS$SHARE:VIDA2SHR.EXE /OPEN /SHARED
INSTALL>  ADD SYS$MESSAGE:VIDA2$MESSAGE.EXE /OPEN /SHARED
INSTALL>  EXIT
```

You must now add the following lines to the appropriate system startup command file so that each time the system is started, VIDA Client for DB2 is available as a shared image. (If your site has modularized its startup procedures, be sure you add the lines to the correct file. The default startup command file for VMS Version 5.0 is SYS$MANAGER:SYSTARTUP_V5.COM.)

```
$  INSTALL
INSTALL>  ADD SYS$SYSTEM:VIDA2SHR.EXE /OPEN /SHARED
INSTALL>  ADD SYS$MESSAGE:VIDA2$MESSAGE.EXE /OPEN /SHARED
INSTALL>  EXIT
```

Note that when you install VIDA Client for DB2 as a shared image you may need to increase the global pages and global sections parameters. Increase global pages (GBLPAGES) by 36 pages and global sections (GBLSECTIONS) by 2 sections. Refer to Section 1.6.4 for information on changing these parameters.

3.8 Testing the VIDA Client for DB2 Installation and the Link to IBM

The VIDA Client for DB2 Installation Verification Procedure (IVP) checks to ensure that the files copied during the VIDA Client for DB2 installation reside in the appropriate system directories. The installation IVP does not test the hardware and software link from VIDA Client for DB2 to your IBM system.

Once VIDA Server for DB2 has been successfully installed on the IBM system and the communications environment has been set up, your site can use the VIDA Client for DB2 Live IVP to test the hardware and software link to the IBM system. Refer to Appendix C in this manual for a sample run of the Live IVP.

You can also check the hardware and software link by using VAX user interface software, such as DATATRIEVE or the Relational Database Operator (RDO) utility of Rdb/VMS, to retrieve some data from the IBM system. Retrieving data tests the outermost software layers of your VAX to IBM link. On the Digital side, it verifies that your VAX user interface software works correctly with VIDA Client for DB2. The Live IVP verifies that data table definitions and user access to tables are set up correctly.

3.9 Determining and Reporting Problems

If you encounter a problem while using VIDA Client for DB2, report it to Digital. Depending on the nature of the problem and the type of support you have, you can take one of the following actions:

- Call Digital if your software contract or warranty agreement entitles you to telephone support.
- Submit a Software Performance Report (SPR).
- Fill out and submit a Reader's Comment form if the problem has to do with the VIDA Client for DB2 documentation. There are Reader's Comments forms at the back of each manual. Use the form from the manual in which you found the error. Include the section and page number.

Review the Software Product Description (SPD) and Warranty Addendum for an explanation of warranty. If you encounter a problem during the warranty period, report the problem as indicated above or follow alternate instructions provided by Digital for reporting SPD nonconformance problems.

See the VIDA Client for DB2 Handbook for information on how to submit an SPR.

4 Running the Live Installation Verification Procedure

This chapter describes how to run the Live Installation Verification Procedure (Live IVP). Section 4.3 contains a step-by-step description of the Live IVP.

4.1 General Information

This section includes information on using the Live IVP, accessing online help, and aborting the IVP.

4.1.1 Using the Live IVP

After all the components of VIDA for DB2 have been installed, you can run the Live IVP to test the hardware and software links from the VAX to IBM systems. This command procedure checks the installation of VIDA Client for DB2, sets up the user environment, invokes SQL to format a query to DB2, and indicates if the Live IVP completed successfully.

4.1.2 Accessing Online Help Files

Online help files are available for the Live IVP. Enter the following command to access online help:

```
$  HELP VIDA_DB2 IVP
```

4.1.3 Aborting the IVP

To abort the IVP at any time, press CTRL/Y. When you press CTRL/Y, the IVP stops running and aborts the SQL query, if the query is in progress. The following message is displayed:

```
**********************************************

VIDA/DB2 V1.0 IVP aborted due to
user activated Control-Y interrupt

**********************************************
```

If the query was running when you pressed CTRL/Y, an incomplete query result file may now exist. If an incomplete query file does exist, you should delete it. The query file is named VIDA2$LIVE_IVP.RES.

4.2 Required Components for Running the Live IVP

The Live IVP tests the hardware and software links from the VAX to the IBM systems. Therefore, all components of VIDA for DB2 must be running.

4.2.1 Prerequisite Hardware

Verify with your system manager that the hardware required to use VIDA Client for DB2 is up and running. You should also also check with the IBM system manager to make sure that all VIDA Server for DB2 hardware pieces are operational.

4.2.2 Prerequisite Software

As with the prerequisite hardware, the software for both VIDA Client for DB2 and VIDA Server for DB2 must be installed and working. Check with the IBM system manager to make sure all the needed software to access VIDA Server for DB2 is up and running. The Live IVP also requires that SQL software is installed on your system. Check with your system manager to make sure SQL is up and running before using the Live IVP.

4.2.3 User Account Requirements

Your user account must have certain privileges and quotas to run the Live IVP. Refer to Section 1.6.2 for information on privileges and Section 1.6.5 for information on user account quotas.

4.3 The Live IVP Procedure

The Live IVP consists of a series of interactive questions and informational messages. The following section discusses the Live IVP prompts and messages.

4.3.1 Invoking the Live IVP

Execute the Live IVP with the following:

```
$  SET DEF SYS$COMMON:[SYSTEST.VIDA2$TEST]
$  @VIDA2$LIVE_IVP
```

The Live IVP displays an informational message and indicates that the IVP has begun.

```
  ******************************************************************
  *                                                                *
  *               VIDA Client for DB2 Live IVP                     *
  *                                                                *
  * Note: This procedure must be run from the system test          *
  * directory: SYS$TEST:[SYSTEST.VIDA2$TEST].                      *
  *                                                                *
  * The VIDA2 Live IVP first verifies that all the VIDA2           *
  * files are in place.  It then accesses the DB2 PERSONNL         *
  * database (supplied with the VIDA Server for DB2 software),     *
  * executes 2 queries, and compares the result with a             *
  * supplied output file.  Any differences in the outputs          *
  * will cause this test to fail, and are reported in              *
  * VIDA2$LIVE_IVP.DIF.  The result of the queries is in           *
  * VIDA2$LIVE_IVP.RES.                                            *
  *                                                                *
  ******************************************************************

Please press the RETURN key to continue:

  ******************************************************************

  The VIDA Client for DB2 IVP verifies that all files are properly
  in place.  It does not test the hardware link from the VAX to the
  IBM system, nor does it test the software link from
  VIDA Client for DB2 to VIDA Server for DB2.

  Once the VIDA Server for DB2 software has been installed on
  your IBM system and your communications environment has been
  set up, you should try running the VIDA2$LIVE_IVP.  If the
  VIDA2$LIVE_IVP completes successfully, then everything
  is installed properly.

  *****************************************************************

  Performing VIDA/DB2 IVP for:  VIDA/DB2 V1.0

  *****************************************************************

  VIDA/DB2 V1.0 IVP completed successfully

  *****************************************************************

Please press the RETURN key to continue:

  ******************************************************************

  Performing VIDA2$LIVE_IVP for:  VIDA/DB2 V1.0

  ******************************************************************
```

```
Please press the RETURN key to continue:
```

Please note that the Live IVP activates the VIDA Client for DB2 installation IVP. Refer to Section 2.1.3 for information on the installation IVP.

4.3.2 Reading the Informational Messages

Once the Live IVP has been invoked, it displays a series of informational messages that explain about the installation IVP and explain how to use the Live IVP.

```
  You will now be asked several questions in order to
  set up the environment for the Live IVP.

  If you have already defined logical names which supply
  values required by VIDA Client, then you may use those
  names by answering YES or Y when asked if the environment
  has been set up.  Otherwise, you will be prompted for
  VIDA Client for DB2 run-time parameters.

  NOTE:  You will always be prompted for user account and
  password information.

  In the questions, the default response is shown in brackets,
  for example, [YES].  If you want to use the default response,
  press the RETURN key.

  For questions with no default response, press RETURN
  if you do not wish to supply a value.

Please press the RETURN key to continue:
```

4.3.3 Answering the Live IVP Questions

This section discusses the questions that the IVP displays. Appendix C contains a sample Live IVP showing how the questions can be answered.

For more information on answering the following questions, refer to Chapter 2, VIDA Client for DB2 Data Access Parameters, in the *VIDA Client for DB2 Handbook*.

Each question in the IVP is marked with an asterisk (*) at the beginning of the line. Some questions show the default response in brackets, for example [YES]. If you want to use the default response, press the RETURN key.

1 VIDA for DB2 Environment

   The Live IVP asks you to verify that the entire environment for VIDA for DB2 is operational. Check with the IBM system manager to make sure all hardware and software components for VIDA Server for DB2 are working. NO is the default response to this question.

   ```
   *  Is the environment set up to run VIDA2 ? (YES/NO) [NO]?:
   ```

2 CICS User Name

The IVP asks for your CICS user name. This is your CICS user ID. See your CICS administrator for your CICS user name. If no name is required, take the none default.

```
*  Please type in CICS User Name [none]:
```

3 User Password

The Live IVP now asks for your user password. This refers to your CICS password. Your CICS administrator supplies your user password. The default is none.

```
* Please type in User Password [none]:
```

4 Server Password

The server password refers to the CICS server password. The CICS server password is used to authenticate the connection to CICS. This password is supplied by your CICS administrator.

```
* Please type in Server Password [none]:
```

5 SNA Gateway Password

The SNA Gateway Password authenticates access to the gateway. This password is supplied by the Gateway Administrator.

```
* Please type in the SNA Gateway Password [none]:
```

6 SNA Gateway Node Name

The IVP asks for the SNA gateway node name. This is the name of the gateway that VIDA Client for DB2 must use. The gateway administrator supplies this name.

```
* Enter the SNA Gateway Node Name [none]:
```

7 Gateway Access Name

The gateway access name identifies an access name that is defined in a gateway configuration file and contains a set of IBM access parameters. The gateway access name is supplied by the gateway administrator.

```
* Enter the Gateway Access Name [none]:
```

8 Transaction Name for Degree2 Transactions

This transaction ID identifies the CICS transaction ID needed to process transactions using the degree 2 (concurrency) option. The default is DEC2. This transaction ID is provided by the CICS administrator.

```
* Enter Transaction ID for degree2 transactions [DEC2]:
```

9 Transaction ID for Degree3 Transactions

This Transaction ID identifies the CICS transaction ID needed to process transactions using the degree 3 (consistency) option. The default is DEC3. This transaction ID is also provided by the CICS administrator.

```
* Enter Transaction ID for degree3 transactions [DEC3]:
```

10 CICS Application Name

The IVP asks you for the VTAM name of the CICS region. When the IVP asks for the application name, respond with the name supplied to you by the CICS administrator.

```
* Enter the CICS Application Name [none]:
```

11 Gateway Circuit ID

The Gateway Circuit ID identifies the name of the physical link from the gateway to the IBM host. The gateway administrator provides this ID.

```
* Enter the Gateway Circuit ID [none]:
```

12 Gateway Session Number

Next, the IVP requests the specific local session address to be used in communicating with the IBM host. The gateway administrator provides you with this number.

```
* Enter the Gateway Session Number [none]:
```

13 Logon Mode Name

Finally, the IVP requests the logon mode name. The logon mode name specifies a selected set of SNA protocol options. It is provided by the gateway administrator.

```
* Enter the Logon mode name [none]:
```

Once you complete the final question, the Live IVP responds by printing out the entire database name:

```
****************************************
*                                      *
* The following is the database name   *
*                                      *
****************************************

"VIDA2_DATABASE" = "/TYPE=VIDA2/DATABASE=PERSONNL"
(LNM$PROCESS_TABLE)
```

4.3.4 Completing the Live IVP

The following message indicates that the Live IVP is complete:

```
*******************************************************
 VIDA/DB2 V1.0 LIVE IVP completed successfully
*******************************************************
```

4.4 Error Recovery

Errors can occur during the IVP. If the IVP fails, you see the following message:

```
**************************************
VIDA/DB2 V1.0 LIVE IVP failed
**************************************
```

The Live IVP fails if the run-time SQL query fails. If the run-time SQL query fails, the differences between the outputs are recorded in a file called VIDA2$LIVE_IVP.DIF. This file shows the differences between the run-time result file and the supplied benchmark file. The following message is displayed if the run-time SQL query fails:

```
***** RUN-TIME ONLY test failed *****
See VIDA2$LIVE_IVP.DIF for errors.
```

In the event of an IVP failure, refer to the file called VIDA2$LIVE_IVP.RES. This file contains error messages explaining the reason of the SQL query failure. The file also describes the appropriate actions to take to correct the errors.

A

Sample Installation

This appendix contains a sample installation of VIDA Client for DB2. This sample was run on a system that had no previous version of VIDA Client for DB2 installed. Depending on which layered products you have on your system, you might see additional messages and questions when you perform your installation.

This sample installation was run under VMS Version 5.0-1. If you are installing under VMS Version 5.2, you will see a few variations from this sample. Refer to Section 2.2.2 for information on VMS Version 5.2 differences.

The sample installation assumes that DECnet has been shut down, that no users are logged on to your system, and that OPTIONS N is specified to print the release notes. The Installation Verification Procedure (IVP) runs at the end of the installation.

The sample VIDA installation procedure follows:

```
$ SET DEFAULT SYS$UPDATE
$ SHOW DEFAULT
  SYS$SYSROOT:[SYSUPD]
$ @VMSINSTAL VIDA2010 MTA0: OPTIONS N

        VAX/VMS Software Product Installation Procedure V5.0-1


It is 30-AUG-1989 at 09:18.
Enter a question mark (?) at any time for help.

* Do you want to continue anyway [NO]? YES
* Are you satisfied with the backup of your system disk [YES]? YES

Please mount the first volume of the set on MTA0:.
* Are you ready? YES
%MOUNT-I-MOUNTED, VIDA2 MOUNTED ON _$$MTA0:  (NODE1)
The following products will be processed:
  VIDA2 V1.0

        Beginning installation of VIDA2 V1.0 at 09:19
```

```
%VMSINSTAL-I-RESTORE, Restoring product saveset A ...

   Release Notes Options:

        1.  Display release notes
        2.  Print release notes
        3.  Both 1 and 2
        4.  Copy release notes to SYS$HELP
        5.  Do not display, print or copy release notes

* Select option [2]: 4
* Do you want to continue the installation?  YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been successfully
                                   moved to SYS$HELP.

    *************************************************************

    Installation procedures for: VIDA/DB2 V1.0

    *************************************************************

    *************************************************************

    Checking system requirements ...

    *************************************************************

       Product:  VIDA
       Producer: DEC
       Version:  1.0
       Release Date: 30-JUN-1989

    * Does this product have an authorization key registered and loaded?

    *************************************************************

    This installation requires the creation of the RDB$REMOTE
    account.  You MUST choose a UIC and password for this
    account.  PLEASE NOTE that your password for the RDB$REMOTE
    account and the network object RDBSERVER MUST be exactly the
    same.  The password you supply for the RDB$REMOTE account
    will be used for the network object as well IF the account is
    created by this installation.

    **************************************************************

    *************************************************************

    The installation procedure will not proceed until you enter a
    valid user identification code (UIC) for the RDB$REMOTE
    account.

    **************************************************************

* Please enter UIC to be used for RDB$REMOTE account (e.g. [ggg,mmm]): [200,201]

    *************************************************************
```

```
    The entire installation will FAIL if you do not enter a valid
    password for the RDB$REMOTE account.  You will be given
    3 chances to verify your password.  This installation
    procedure requires at least 6 characters for the
    RDB$REMOTE password.  Valid characters for a password are:

       A through Z
       a through z
       0 through 9
       $ (dollar sign)
       _ (underscore)

    As with the DCL SET PASSWORD command, your input will not
    appear on the terminal.  And to protect against typing errors
    that are not seen when entering the password, you must enter
    the password twice.

    *************************************************************

* Please enter PASSWORD to be used for RDB$REMOTE account: VIDADB

* Please verify the PASSWORD entered for RDB$REMOTE: VIDADB


* Do you want to purge files replaced by this installation [YES]? YES
* Do you want to run the IVP after the installation [YES]? YES

    *************************************************************

    There are no more questions.  The installation takes ap-
    proximately 5 minutes on a stand-alone VAX 8200.

    *************************************************************

    Beginning installation ...

    *************************************************************

    *************************************************************

    Installing under VMS V5.0-1    - 30-AUG-1989 09:21

    *************************************************************

%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                  VMI$ROOT:[SYSTEST.VIDA2$TEST]
    *************************************************************

    The VIDA2 IVP has been placed in SYS$COMMON:[SYSTEST.VIDA2$TEST].
    You may run this procedure separately any time you wish.  To
    execute it, type :

    $ SET DEF SYS$COMMON:[SYSTEST.VIDA2$TEST]
    $ @VIDA2$IVP

    *************************************************************
```

```
    The live VIDA2 IVP has been placed in
    SYS$COMMON:[SYSTEST.VIDA2$TEST].
    You may run this procedure separately after the environment
    has been set up.
    To execute it, type:

    $ SET DEF SYS$COMMON:[SYSTEST.VIDA2$TEST]
    $ @VIDA2$LIVE_IVP

    *************************************************************

    *************************************************************

    Adding VIDA2 help to the DCL help library

    *************************************************************

%VMSINSTAL-I-SYSDIR, This product creates a system disk directory
                                   VMI$ROOT:[RDB$REMOTE].

%VIDA2-I-ACCOUNT, This installation creates an account named RDB$REMOTE.

RDBSERVER has been placed in the DECnet object database as number 35.

    *************************************************************

    SYSTEM MANAGER:

    If your DECnet object database is not configured to be in
    the cluster common directory, then you will need to perform
    the following:

    In order to have remote access on another node which shares
    this cluster common root directory, you must insert
    RDBSERVER.EXE into that node's DECnet object database by:

       a) Logging into that node, and
       b) Invoking SYS$COMMON:[SYSMGR]RDBSERVER_NCP.COM.

    This command procedure inserts RDBSERVER into the node's
    permanent DECnet object database.  This procedure only needs
    to be executed ONCE per node.

    This command procedure will prompt for a password for
    the object RDBSERVER.  This password must match the
    password established for the account.

    *************************************************************

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

    *************************************************************

    The VIDA Client for DB2 IVP verifies that all files are properly in
    place.  It does not test the hardware link from the VAX
    to the IBM system, nor does it test the software link
    from VIDA Client for DB2 to VIDA Server for DB2.
```

```
    Once the VIDA Server for DB2 software has been installed on
    your IBM system and your communications environment has been
    set up, you should try running the VIDA2$LIVE_IVP.  If the
    VIDA2$LIVE_IVP completes successfully, then everything
    is installed properly.

    *************************************************************

    *************************************************************

    Performing VIDA/DB2 IVP for: VIDA/DB2 V1.0

    *************************************************************

    *************************************************************

    VIDA/DB2 V1.0 IVP completed successfully

    *************************************************************

        Installation of VIDA2 V1.0 completed at 09:28

        VMSINSTAL procedure done at 09:28

$ LO
  SYSTEM       logged out at 30-AUG-1989 09:41:36.50
```

B

Files Installed on Your System

The following sections list the name of each file transferred to your system when you install VIDA Client for DB2. The sections divide files by the directories to which the installation procedure copies them.

B.1 Files Transferred to SYS$SYSTEM

The installation procedure transfers the following executable files to the directory SYS$COMMON:[SYSEXE]:

RDB$REMOTE_LOGIN.COM	The login command procedure for the RDB$SERVER account
RDBSERVER.EXE	Rdb/Remote Server image
RDBSERVER.COM	Rdb/Remote Server command file The command procedure starts the RDB server process to provide remote database access capability.

B.2 Files Transferred to SYS$HELP

The installation procedure transfers the following help files to the directory SYS$COMMON:[SYSHLP]:

RDB_MSG.DOC	Documentation file for errors generated by the DIGITAL Standard Relational Interface (DSRI) DSRI error messages use the 3-letter facility code RDB. Print the file RDB_MSG.DOC when you want a hardcopy listing of the DSRI error messages.

VIDA2$MESSAGE.DOC	Documentation file for errors generated by the VIDA Client for DB2 software VIDA Client for DB2 error messages use the facility code VIDA2. Print the VIDA2$MESSAGE.DOC file when you want a hardcopy listing of all VIDA Client for DB2 error messages.
VIDA2$HELP_DCL.HLP	Source for the DCL help text that the installation procedure inserts into the library SYS$COMMON:[SYSHLP] If you want to customize the help on your system, or already have, you can edit this file and build a new help library.
VIDA2$010.RELEASE_NOTES	VIDA for DB2 release notes The file that contains the VIDA for DB2 Version 1.0 release notes.

B.3 Files Transferred to SYS$SHARE

The installation procedure transfers the following library files to the directory SYS$COMMON:[SYSLIB]:

VIDA2$DMCS_TABLE.EXE	Character set translation default VIDA for DB2 lets you use modified tables for translating between IBM character encoding (EBCDIC) and the character encoding used on VAX computers. This is the default translation table that implements a reversible translation from EBCDIC to the DIGITAL Multinational Character Set (DMCS) and back.
VIDA2$DMCS_TABLE.MAR	Source file for the preceding translation table You can edit this source file and build customized translation tables for your site.
VIDA2$TRAPRE.MAR	Source prefix file for the preceding translation table
VIDA2$TRANS_TABLE.COM	Command file for building translation tables

The installation procedure transfers the following shareable image files to the directory SYS$COMMON:[SYSLIB].

VIDA2SHR.EXE	VIDA Client for DB2 shareable image The bulk of the VIDA Client for DB2 software resides in this shareable image.

RDBSHR.EXE	Generic (DSRI level) shared image This image processes all DIGITAL Standard Relational Interface (DSRI) calls and routes them to the appropriate subsystem (for example, routes calls to either Rdb/VMS or VIDA Client for DB2).
RDMMSGSHR.EXE	Rdb/VMS shareable image This file is a shareable, nonexecutable image of all Rdb/VMS error messages and is used by DSRI-compliant database products.

B.4 Files Transferred to SYS$MESSAGE

The installation procedure transfers the following message files to the directory SYS$COMMON:[SYSMSG]:

VIDA2$MESSAGE.EXE	VIDA Client for DB2 message file image This image is activated along with VIDA2SHR and contains the run-time form of the error message text.
VIDA_MESSAGE.EXE	VIDA with IDMS/R message file image
RDBMSGS.EXE	Generic (DSRI level) message file
RDMSMSG.EXE	Rdb/VMS message file
RDBBMSGS.EXE	Rdb/ELN message file

B.5 Files Transferred to SYS$COMMON:(SYSTEST)

The installation procedure transfers the following IVP command files to the directory SYS$COMMON:[SYSTEST.VIDA2$TEST]:

VIDA2$IVP.COM	VIDA Client for DB2 IVP command procedure You can run the IVP command procedure any time after VIDA Client for DB2 is installed to verify that the installation procedure installed the VIDA Client for DB2 software properly.
VIDA2$IDENT.COM	VIDA2 command procedure This command procedure simply provides the current VIDA Client for DB2 version number.
VIDA2$LIVE_IVP.COM	VIDA for DB2 Live IVP command procedure You can run the LIVE IVP command procedure to verify that all components (hardware and software) of the VIDA for DB2 installation are properly working.

VIDA2$LIVE_IVP.BMK	Live IVP benchmark file This is the supplied benchmark file for the VIDA2 Live IVP. When VIDA2$LIVE_IVP.COM is run, the procedure's result file is compared to this benchmark file. Any differences between the files are reported in VIDA2$LIVE_IVP.DIF.

B.6 Files Transferred to SYS$MANAGER

The installation procedure transfers the following command files to the directory SYS$MANAGER:

RDBSERVER_NCP.COM	Command procedure for RDB server process The command procedure inserts RDBSERVER objects into the DECnet object database for the node from which it is executed.
VAXINFO$NETOBJ_INSERT.COM	Command procedure The command procedure inserts objects into DECnet databases.

B.7 File Transferred to SYS$COMMON

The installation procedure transfers the following file to the directory named SYS$COMMON:[SYSMGR.VAXINFO$PRODUCTS]:

VIDA2_FILES.DAT	List of all files installed by VIDA Client for DB2

C

Sample Live Installation Verification Procedure

This appendix contains a sample run of the Live IVP. The sample Live IVP was run on a system that had no previous version of VIDA Client for DB2 installed. Depending on which layered products you have installed on your system, you might see additional messages and questions when you run the Live IVP.

```
$ SET DEFAULT SYS$COMMON:[SYSTEST.VIDA2$TEST]
$ @VIDA2$LIVE_IVP

    ***************************************************************
    *                                                             *
    *              VIDA Client for DB2 Live IVP                   *
    *                                                             *
    * Note:  This procedure must be run from the system test      *
    * directory: SYS$TEST:[SYSTEST.VIDA2$TEST].                   *
    *                                                             *
    * The VIDA2 Live IVP first verifies that all the VIDA2        *
    * files are in place.  It then accesses the DB2 PERSONNL      *
    * database (supplied with the VIDA Server for DB2 software),  *
    * executes 2 queries, and compares the result with a          *
    * supplied output file.  Any differences in the outputs       *
    * will cause this test to fail, and are reported in           *
    * VIDA2$LIVE_IVP.DIF.  The result of the queries is in        *
    * VIDA2$LIVE_IVP.RES                                          *
    *                                                             *
    ***************************************************************

Please press the RETURN key to continue:

    ****************************************************************

    The VIDA Client for DB2 IVP verifies that all files are properly
    in place. It does not test the hardware link from the VAX to the
    IBM system, nor does it test the software link from
    VIDA Client for DB2 to VIDA Server for DB2.
```

```
    Once the VIDA Server for DB2 software has been installed on
    your IBM system and your communications environment has been
    set up, you should try running the VIDA2$LIVE_IVP.  If the
    VIDA2$LIVE_IVP completes successfully, then everything
    is installed properly.

    ***************************************************************

    **************************************************************

    Performing VIDA/DB2 IVP for:  VIDA/DB2 V1.0

    **************************************************************

    **************************************************************

    VIDA/DB2 V1.0 IVP completed successfully

    **************************************************************

Please press the RETURN key to continue:

    **************************************************************

    Performing VIDA2$LIVE_IVP IVP for: VIDA/DB2 V1.0

    **************************************************************

Please press the RETURN key to continue:

    You will now be asked several questions in order to
    set up the environment for the Live IVP.

    If you have already defined logical names which supply
    values required by VIDA Client, then you may use those
    names by answering YES or Y when asked if the environment
    has been set up.  Otherwise you will be prompted for
    VIDA Client for DB2 run-time parameters.

    NOTE:  You will always be prompted for user account and
    password information.

    In the questions, the default response is shown in brackets,
    for example [YES].  If you want to use the default response,
    press the RETURN key.

    For questions with no default response, press RETURN
    if you do not wish to supply a value.

Please press the RETURN key to continue:

* Is the environment set up to run VIDA2 (YES/NO) [NO]?  YES
* Please type in CICS User Name [none]:  VIDA

* Please type in User Password [none]:  VIDADB
* Please type in Server Password [none]:
* Please type in SNA Gateway Password [none]:
```

```
* Enter the SNA Gateway Node Name [none]:  WICKET
* Enter the Gateway Access Name [none]:  CICSVIDA
* Enter Transaction ID for degree2 transactions [DEC2]:  TVXX
* Enter Transaction ID for degree3 transactions [DEC3]:  TVYY
* Enter the CICS Application Name [none]:  CICS
* Enter the Gateway Circuit ID [none]:  LC-1
* Enter the Gateway Session Number [none]:  28
* Enter the Logon mode name [none]:  XL622048

***************************************
*                                     *
* The following is the database name  *
*                                     *
***************************************

 "VIDA2_DATABASE" = "/TYPE=VIDA2/DATABASE=PERSONNL"
(LNM$PROCESS_TABLE)

    *************************************************************

     VIDA/DB2 V1.0 LIVE IVP completed successfully

    *************************************************************
```