DEC RdbAccess for VAX RMS on VMS

Installation Guide

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RdbAccess for VAX RMS emulates read-only relational access to RMS data files and IBM VSAM data sets through VAX SQL statements. The product emulates relational access by associating data with data definitions from the CDD/Plus data dictionary. This guide describes how to install and maintain RdbAccess for VAX RMS on a VMS system.

Revision/Update Information:	This is a new manual.
Operating System:	VMS Version 5.3 or higher
Software Version:	RdbAccess for VAX RMS Version 1.0

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Preface

DEC RdbAccess for VAX RMS on VMS, referred to in this document as RdbAccess for VAX RMS, emulates read-only relational access to RMS data files and IBM VSAM data sets through VAX SQL statements. The product emulates relational access by associating data with data definitions from the CDD/Plus data dictionary.

Purpose of This Guide

This guide describes how to install and maintain RdbAccess for VAX RMS on the VMS operating system. You should review the entire guide before you start the installation.

Who Should Use This Guide

This guide is for VMS system managers or others responsible for installing system software. To install the RdbAccess for VAX RMS software, you must have access to a privileged account such as the SYSTEM account, and you must be familiar with the VMS installation procedure, VMSINSTAL.COM.

Structure of This Guide

The guide has three chapters and two appendixes. Chapter 1 describes installation prerequisites and pre-installation procedures. Chapter 2 describes the installation procedure. Chapter 3 describes required post-installation procedures. Appendix A shows a sample printout of an installation. Appendix B shows the files that are transferred to your system when you install RdbAccess for VAX RMS.

For More Information

Refer to the following manual for more information about RdbAccess for VAX RMS:

- *DEC RdbAccess for VAX RMS on VMS User's Guide*

For more information about the VMSINSTAL command procedure, see one of the following manuals:

- *VMS System Manager's Manual*, in the VMS base documentation set
- *Guide to Setting Up a VMS System*, in the VMS system management kit

Conventions

The following conventions are used in this guide:

Return	In procedures, key names are shown enclosed to indicate that you press a key on the keyboard.
Ctrl/x	A sequence such as Ctrl/x indicates that you must hold down the key labeled Ctrl while you press another key or a pointing device button.
( )	In format descriptions, parentheses indicate that, if you choose more than one option, you must enclose the choices in parentheses.
[ ]	In format descriptions, brackets indicate that whatever is enclosed is optional; you can select none, one, or all of the choices.
{ }	In format descriptions, braces surround a required choice of options; you must choose one of the options listed.
color	Color in examples indicates information that you must enter from the keyboard. In the Bookreader, information you must enter from the keyboard is indicated by **boldface** text.
italic text	Italic text represents information that can vary in system messages (for example, Internal error *number*).
UPPERCASE TEXT	Uppercase letters indicate that you must enter a command (for example, enter OPEN/READ). Uppercase letters also indicate the name of a routine, the name of a file, the name of a file protection code, or the abbreviation of a system privilege.
RdbAccess for VAX RMS	The term RdbAccess for VAX RMS refers to the RdbAccess for VAX RMS™ software.
SQL	The term SQL refers to the VAX Structured Query Language software.

RMS	The term RMS refers to the VAX Record Management Services software.
Rdb/VMS	The term Rdb/VMS refers to the VAX Rdb/VMS software.
CDD/Plus	The term CDD/Plus refers to the VAX CDD/Plus software.

1
Preparing for Installation

This chapter describes tasks that you must complete before installing RdbAccess for VAX RMS. Installing RdbAccess for VAX RMS is similar to installing other VMS layered products. You must do the following:

- Take an inventory of the software distribution kit.
- Make sure that your system has the prerequisite hardware, and that it has enough memory and available disk space to install and run RdbAccess for VAX RMS.
- Make sure that your system has the required VMS operating system components and the prerequisite software.
- If you are installing on a VAXcluster, decide how best to install RdbAccess for VAX RMS, depending on your configuration.
- Register and load your RdbAccess for VAX RMS license.
- Check that the account you use to install the software has the required privileges and quotas.
- Decide what values your VMS system parameters should have.
- Back up your system disk.
- Advise your users when the installation will take place and how long it will take. The full installation takes approximately 15 minutes on a stand-alone VAX 8200. Your time may vary depending on your system configuration and the type of installation media.

Once you have prepared your system, you can then perform the installation procedure as described in Chapter 2, and any necessary post-installation procedures as described in Chapter 3.

1.1 Checking the Distribution Kit

Each RdbAccess for VAX RMS distribution kit contains:

- Bill of Materials and the Indented Bills Report

  Please read the Bill of Materials enclosed in the transparent plastic envelope. Check to see that all items listed there are in your kit. If any items are missing, contact your Digital representative.

- Distribution Media, labeled NSDS
- Software License, labeled RDBACCESS-RMS
- Documentation

  If you ordered a media-only kit, you have just the *DEC RdbAccess for VAX RMS on VMS Installation Guide*.

  If you ordered a full kit or a documentation-only kit, you have an RdbAccess for VAX RMS documentation set, which includes the following manuals:

  DEC RdbAccess for VAX RMS on VMS User's Guide
  DEC RdbAccess for VAX RMS on VMS Installation Guide

- Software Product Description (SPD)

  The SPD provides an overview of RdbAccess for VAX RMS and its features.

- Software Performance Report (SPR)

  Use this form to report any problems with RdbAccess for VAX RMS (provided you have purchased warranty services).

1.2 Prerequisite Hardware

RdbAccess for VAX RMS runs on VAX, MicroVAX, VAXstation or VAXserver configurations as specified in the System Support Addendum, 32.88.00-A.

1.3 Prerequisite Software

To install RdbAccess for VAX RMS, you must have:

1. A valid VMS operating system configuration running VMS Version 5.3 or higher
2. Your RdbAccess for VAX RMS software license registered

   See Section 1.5 for more information.

3. Rdb/VMS Version 4.0 or higher
4. VAX CDD/Plus Version 4.2 or higher

For more information, refer to your Software Product Description, 32.88.00, and your System Support Addendum, 32.88.00-A.

1.4 Required Operating System Components

RdbAccess for VAX RMS requires the following VMS Version 5.3 components:

- VMS required files
- Network support
- Programming support
- System programming support
- Secure user's environment
- Utilities

If your system does not meet these requirements, the installation will fail. You must install the required software using VMSTAILOR before performing the RdbAccess for VAX RMS installation.

1.5 Registering Your License

You must register and load your RdbAccess for VAX RMS software license. The information you need is in the Product Authorization Key (PAK) shipped with the product. The PAK is a paper certificate that contains data about your license.

You must register the license before you install RdbAccess for VAX RMS. If you do not, you are informed during the installation procedure that you have not registered it, and the installation fails.

Note

If you are re-installing RdbAccess for VAX RMS Version 1.0, you do not need to re-register your license. Your current license is still active.

1.5 Registering Your License

To register the license for the initial installation, first log in to a privileged account such as the system manager's account, SYSTEM. Then use the License Management Facility to perform the registration, choosing one of the following procedures (the second method is faster for experienced users):

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

If you plan to use RdbAccess for VAX RMS on more than one node in a VAXcluster, you must perform a LICENSE LOAD on the other nodes after you complete this installation. See Section 3.2 for more information.

For complete information on using the License Management Facility, see your VMS documentation set.

1.6 VAXcluster Considerations

You can install RdbAccess for VAX RMS on a VAXcluster.

In a common-environment VAXcluster, you can install RdbAccess for VAX RMS on the VAXcluster boot node. This allows more than one VAX processor to share the same RdbAccess for VAX RMS software.

In a multiple-system VAXcluster, you can install RdbAccess for VAX RMS on each system disk in the cluster.

You must make sure that each node where you plan to install or run RdbAccess for VAX RMS meets the minimum system parameter value requirements. See Section 1.7.4 for a list of required system parameter values.

After you install RdbAccess for VAX RMS, you must run the RdbAccess for VAX RMS startup command procedure (SYS$STARTUP:NSDS$STARTUP.COM) and load the software license on every cluster node where you want to run RdbAccess for VAX RMS. See Section 3.1 and Section 3.2 for more information.

1.7 Preparing Your System and the Installing Account

This section tells you which characteristics of your system and installing account you need to check before you install RdbAccess for VAX RMS. These characteristics include:

- Account privileges
- Account quotas

- Disk space requirements
- System parameters

You must adjust those characteristics that do not match the minimum values required for installing and running RdbAccess for VAX RMS.

1.7.1 Checking Privileges of the Installing Account

The account you use to install RdbAccess for VAX RMS must have the user privilege SETPRV. As one of the first actions, the VMSINSTAL command procedure grants all privileges (except BYPASS) to the process that invokes it. This command succeeds only if the account has SETPRV.

On most systems, the SYSTEM account has SETPRV and is used to install software. The procedures described in this installation guide refer to the SYSTEM account, but they are the same for any account with SETPRV.

1.7.2 Checking Quotas of the Installing Account

The installing account must have sufficient quotas to perform the installation and run the Installation Verification Procedure (IVP). Table 1–1 summarizes the minimum account quotas required.

Table 1–1 Minimum Installing Account Quotas

Account Quota	Value	Description
PGFLQUO	20,000	Paging file limit

Account quotas are stored in the file SYSUAF.DAT. Use the VMS Authorize Utility to verify and change user account quotas. Follow these steps:

1. Set your directory to SYS$SYSTEM and then run AUTHORIZE as follows:

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

2. At the AUTHORIZE prompt (UAF>), use the SHOW command with an account name to check your account. For example:

```
UAF>  SHOW SMITH
```

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

MODIFY account-name /quota-name=nnnn

For example, to change the PGFLQUO quota to 20,000 for the SMITH account, then exit from the Authorize Utility, you would enter the following:

```
UAF>  MODIFY SMITH /PGFLQUO=20000
UAF>  EXIT
```

After you exit from the utility, the VMS system displays messages indicating whether 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 *Guide to Setting Up a VMS System*.

1.7.3 System Disk Space Requirements

Your system disk must have sufficient disk storage space to accommodate the installation. Table 1–2 lists the required free disk blocks.

Table 1–2 System Disk Requirements

Installation Condition	Blocks
To install	3000
To run	2000

Use the DCL command SHOW DEVICE to determine the number of free blocks that are available on the system disk, as follows:

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

If the disk does not have enough free blocks, delete unnecessary files to provide the space required.

1.7.4 System Parameter Values

Table 1–3 lists the minimum system parameter values required for RdbAccess for VAX RMS installation and use. If your parameters are higher, do not lower them. Other applications on your system may require higher values than these minimum values.

On a VAXcluster, you must adjust not only the system parameters of nodes on which you install RdbAccess for VAX RMS, but also the nodes on which you intend to run RdbAccess for VAX RMS.

Table 1–3 Required Minimum System Parameter Values

System Parameter	Minimum Value
GBLPAGES	186 (unused global pages)
GBLSECTIONS	7 (unused global sections)
VIRTUALPAGECNT	20,000

1.7.4.1 Checking Parameter Values

To check the value of a system parameter, enter the following command at the DCL prompt:

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

At the SYSGEN> prompt, use the SHOW command to display the value of each system parameter. The value displayed in the Current column should equal or exceed the value of each parameter listed in Table 1–3. For example, the following command displays the value for the VIRTUALPAGECNT system parameter:

```
SYSGEN>  SHOW VIRTUALPAGECNT
```

After you finish checking parameter values, use the EXIT command to return to DCL level.

1.7.4.2 Calculating GBLPAGES and GBLSECTIONS Parameter Values

The values for GBLPAGES and GBLSECTIONS in Table 1–3 indicate that you must have at least 186 unused global pages and 7 unused global sections available for the installation.

To calculate the number of unused global pages and global sections on your system, perform these steps:

1. Use the DCL F$GETSYI lexical function to determine the number of free global pages and global sections:

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

2. If the number of unused global pages or global sections is less than the number specified in Table 1–3, you must increase the value using the AUTOGEN command procedure, as shown in Section 1.7.4.3.

1.7.4.3 Changing Parameter Values with AUTOGEN

Use the AUTOGEN command procedure to change system parameters. To change system parameters with AUTOGEN:

1. Edit the following file:

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

   For example, to increase the setting for the GBLPAGES system parameter by 2000, add this line to the file:

   ```
   ADD_GBLPAGES = 2000
   ```

2. Run the AUTOGEN procedure to recalculate your system parameters and reboot the system. Enter the following command at the DCL prompt:

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

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

   AUTOGEN 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 parameter on the AUTOGEN command line as well. For example:

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

For more information about using AUTOGEN, see the instructions on modifying system parameters in the *Guide to Setting Up a VMS System*.

1.8 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. If a system failure occurs at a critical point during the installation, some of the files could be corrupted. Therefore, you should back up your system disk before attempting any software installation.

For more information on backing up your system disk, see the section on the Backup Utility in the *Guide to Maintaining a VMS System*.

1.9 Determining and Reporting Problems

If you encounter a problem while using RdbAccess for VAX RMS, 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 Comments form if the problem has to do with the RdbAccess for VAX RMS 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 number and page number.

Review the Software Product Description (SPD) and Warranty Addendum for an explanation of your 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.

1.10 Pre-Installation Check List

Table 1–4 summarizes the tasks you must perform before installing RdbAccess for VAX RMS. Check to make sure that you have performed all these tasks before proceeding with the installation.

Table 1–4 Pre-Installation Check List

Task	For More Information
Check that you have the prerequisite hardware and software	See Section 1.2 and Section 1.3
Register and load your license	See Section 1.5
Check privileges and quotas of the installing account	See Section 1.7.1 and Section 1.7.2
Check that you have enough disk space	See Section 1.7.3
Check system parameters	See Section 1.7.4
Back up your system disk	See Section 1.8

2
Installing RdbAccess for VAX RMS

This chapter describes the procedure for installing RdbAccess for VAX RMS and running the Installation Verification Procedure (IVP).

Before you begin installing RdbAccess for VAX RMS, make sure that your system meets the requirements outlined in Chapter 1.

The full installation takes approximately 15 minutes on a stand-alone VAX 8200. Your time may vary depending on the configuration of your system, the choices you make during the installation, and the type of media you use.

2.1 Running the VMSINSTAL Command Procedure

Use the VMSINSTAL command procedure to install RdbAccess for VAX RMS. For more information about VMSINSTAL, refer to the following books in your VMS documentation set:

- The *VMS System Manager's Manual*, in the VMS base documentation set
- The *Guide to Setting Up a VMS System*, in the VMS system management subkit.

If VMSINSTAL detects a problem during the installation procedure, it notifies you and asks if you want to continue. To stop the installation and correct the problem, enter NO or press RETURN. After you have made the correction, you can restart the installation.

To stop the installation procedure at any time, press Ctrl/Y. The installation procedure deletes all the files it has created up to that point and exits. You can then restart the installation.

2.1 Running the VMSINSTAL Command Procedure

Follow these steps to install RdbAccess for VAX RMS:

1. **Log in to the SYSTEM account.**

   Log in at the operator's console terminal under the system manager's account, SYSTEM.

2. **Notify the users.**

   Send a message requesting that all users log out. Use the DCL REPLY command to inform users of the schedule for the installation. Use the SET LOGINS command to prevent others from logging in:

   ```
   $  REPLY/USER "Installation starting in 5 minutes. Please log out."
   $  SET LOGINS/INTERACTIVE=0
   ```

3. **Invoke VMSINSTAL.**

   Enter the following command line to run VMSINSTAL.COM:

   ```
   $  @SYS$UPDATE:VMSINSTAL NSDS ddcu: OPTIONS N
   ```

   where:

   - *@SYS$UPDATE:VMSINSTAL* invokes VMSINSTAL
   - *NSDS* is the save set name for the RdbAccess for VAX RMS software
   - *ddcu:* is the device specification for the distribution medium, for example, MUA0:.
   - *OPTIONS N* is an optional parameter indicating that 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. Digital recommends that you review the release notes before proceeding with the installation.

   After you invoke VMSINSTAL, you see the following message:

   ```
           VAX/VMS Software Product Installation Procedure V5.3

   It is 07-JAN-1991 at 13:51

   Enter a question mark (?) at any time for help.
   ```

4. **Answer the backup question.**

   The installation procedure asks if you have backed up your system disk:

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

   If you have not backed up your system disk, you should not continue with the installation until you do so. If you need to back up the system disk, enter NO. VMSINSTAL exits and returns you to the DCL prompt. Back up your system disk, and then start VMSINSTAL again.

If you have already backed up the system disk, press RETURN to continue.

5. **Mount the media.**

   You receive instructions to mount the distribution medium on the device you specified when you invoked VMSINSTAL (MUA0: in this example):

```
Please mount the first volume of the set on MUA0:.
* Are you ready?
```

   Mount the distribution medium and enter YES to indicate that you are ready to continue.

   The following messages appear on your terminal:

```
%MOUNT-I-MOUNTED,  NSDS mounted on _MUA0:

The following products will be processed:

  NSDS V1.0

        Beginning installation of NSDS V1.0 at 13:51

%VMSINSTAL-I-RESTORE, Restoring product save set A...
```

6. **Print and read the Release Notes.**

   If you specified OPTIONS N when you invoked VMSINSTAL, you are now asked to choose one of the four options for reviewing the Release Notes:

```
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]:
```

   Review the Release Notes in case they contain any information about changes in the installation procedures. Selecting option 2 prints a copy of the Release Notes.

   You are prompted for a print queue:

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

   Press RETURN to print the Release Notes on SYS$PRINT, or type a different queue name and press RETURN. You receive a message similar to the following:

```
Job 810 (queue SYS$PRINT, entry 1295) started on SYS$PRINT
```

   If you selected options 1 or 3, the Release Notes are displayed.

7. **Decide whether or not to continue.**

   The installation procedure asks if you want to continue:

```
 * Do you want to continue the installation? [NO]?

%VMSINSTAL-I-RELMOVED, The product's release notes have been
successfully moved to SYS$HELP.
```

   Enter YES to continue. Otherwise, press RETURN. In either case, the Release Notes are moved to the SYS$HELP directory. The Release Notes are contained in the following file, which you may read or print later:

   SYS$HELP:NSDS010.RELEASE_NOTES.

   You then see the following message:

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

Installation procedures for: NSDS V1.0

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

Checking system requirements ...
```

8. **Answer the license registration question.**

   The installation procedure asks if you have registered a RdbAccess for VAX RMS product authorization key, using the License Management Facility (LMF):

```
       Product:      RDBACCESS-RMS
       Producer:     DEC
       Version:      1.0
       Release Date: 1-JAN-1991

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

   You must have registered and loaded the product authorization key or the installation fails. Enter YES if your PAK is registered and loaded. The installation then proceeds. If you enter NO, the installation procedure exits and returns you to the DCL prompt. See Section 1.5 for information about registering your product authorization key.

Note

If you are re-installing RdbAccess for VAX RMS Version 1.0, you do not need to re-register your license. Your current license is still active.

9. **Decide whether or not to purge files.**

   The installation procedure asks if you want to purge (delete) old versions of files replaced by this installation:

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

   Purging is recommended. Press RETURN to purge the old files. However, if you need to keep files from the previous version, enter NO.

10. **Decide whether or not to run the IVP.**

    The installation procedure asks if you want to run the Installation Verification Procedure (IVP):

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

    The RdbAccess for VAX RMS IVP checks to be sure the installation is successful. Digital recommends that you run the IVP. Press RETURN.

11. **Check informational messages.**

    The installation procedure displays a series of messages as it performs the rest of the installation:

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

      There are no more questions. The installation takes
      approximately 10 minutes on a stand-alone VAX 8200.

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

      Beginning installation ...

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

      Installing under VMS V5.3 - 07-JAN-1991 13:56

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

    %VMSINSTAL-I-SYSDIR, This product creates system disk directory
         VMI$ROOT:[SYSTEST.NSDS]

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

      The NSDS$STARTUP.COM file has been placed in
      SYS$STARTUP:NSDS$STARTUP.COM.  The following line
      should be placed in your system startup file.

      $ @SYS$STARTUP:NSDS$STARTUP.COM

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

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

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

$ SET DEFAULT SYS$COMMON:[SYSTEST.NSDS$IVP]
$ @NSDS$IVP

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

Adding RdbAccess_RMS help to the DCL help library

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

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

The qualifier LGICMD for the RDB$REMOTE account in SYSUAF
is modified by this installation.

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

12. **Check Rdb/VMS messages.**

    The RdbAccess for VAX RMS kit contains some Rdb/VMS files. The installation procedure checks to make sure you have the latest version of these files and replaces them if necessary. See Appendix B for a full list of the Rdb/VMS files.

    If your system has the latest version of the Rdb/VMS files, you see the following messages:

```
  *****************************************************
%NSDS-I-NOTINSTALLED, VMI$KWD:RDBBMSGS.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is the same as current file
%NSDS-I-NOTINSTALLED, VMI$KWD:VIDA_MESSAGE.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is the same as current file
%NSDS-I-NOTINSTALLED, VMI$KWD:RDMSMSG.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is older than current file
%NSDS-I-NOTINSTALLED, VMI$KWD:RDMMSGSHR.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is older than current file
```

    After transferring the Rdb/VMS files, the installation procedure moves all files to their directories.

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

13. **Run the RdbAccess for VAX RMS IVP.**

    The installation procedure runs the RdbAccess for VAX RMS Installation Verification Procedure:

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

The NSDS IVP verifies that all files are properly in place and that
VAX SQL commands can be executed on RMS files.

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

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

NSDS V1.0 IVP completed successfully

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

14. **End the installation procedure.**

    The installation procedure ends automatically with the following messages:

```
Installation of NSDS V1.0 completed at 14:06

VMSINSTAL procedure done at 14:06
```

15. **Make the system available to users.**

    After the installation completes successfully, you should reset system logins to your system default (64 in this example). Then send a message to all users stating that the system is again available. Use the following DCL commands:

```
$  SET LOGINS/INTERACTIVE=64
$  REPLY/USER "Installation complete. System is ready for use."
```

3
Post-Installation Procedures

This chapter describes tasks that you must complete after RdbAccess for VAX RMS is installed.

3.1 Editing the System Startup File

After the installation is complete, you must edit the system startup and shutdown files for all nodes that will be running RdbAccess for VAX RMS.

Add the following line to your system startup file, SYS$MANAGER:SYSTARTUP_V5.COM:

```
$ @SYS$STARTUP:NSDS$STARTUP.COM
```

3.2 Activating RdbAccess for VAX RMS on a VAXcluster

To activate RdbAccess for VAX RMS on any type of VAXcluster, you must first install RdbAccess for VAX RMS on each system disk that is commonly shared among nodes in the cluster. Then you must perform the following procedure to start RdbAccess for VAX RMS, replace the DCL tables, and load the license on all other nodes in the cluster:

```
$  RUN SYS$SYSTEM:SYSMAN
SYSMAN>  SET ENVIRONMENT/CLUSTER/USER=SYSTEM
Remote Password: supply SYSTEM password here
SYSMAN>  DO LICENSE LOAD RDBACCESS-RMS
SYSMAN>  DO @SYS$STARTUP:NSDS$STARTUP
SYSMAN>  EXIT
```

3.3 User Account Requirements

RdbAccess for VAX RMS users must have certain account privileges and quotas. The following two sections contain information about these requirements.

3.3.1 User Account Privileges

To use RdbAccess for VAX RMS, an account must have at least the TMPMBX and NETMBX privileges. Use the VMS Authorize Utility to determine if users have the privileges they require. See Section 1.7.2 for more information.

3.3.2 User Account Quotas

To use RdbAccess for VAX RMS, an account must have sufficient quotas. Table 3–1 summarizes the minimum required user account quotas.

Table 3–1 Minimum User Account Quotas

Account Quota	Value	Description
PGFLQUO	20,000	Paging file limit

Use the VMS Authorize Utility to verify and change user account quotas. See Section 1.7.2 for more information.

3.4 Rebooting the System

You are not required to reboot the system to activate RdbAccess for VAX RMS. However, you may choose to reboot your system after you have installed RdbAccess for VAX RMS, edited the system startup and shutdown files, and reset the system parameters (if necessary). A system reboot establishes any new parameter settings and verifies that RdbAccess for VAX RMS is ready for use and that the edits to the system startup command file are correct.

3.5 Running the Installation Verification Procedure Separately

If you answered YES to the IVP question during the RdbAccess for VAX RMS installation, the Installation Verification Procedure ran automatically at the end of the installation. You received a message indicating whether the IVP succeeded or failed.

You can also run the IVP separately. The account from which you run the IVP must have the same privileges and account quotas required to install RdbAccess for VAX RMS. See Section 1.7 for more information.

To run the IVP, use the following DCL command:

```
$  SET DEFAULT SYS$COMMON:[SYSTEST.NSDS$IVP]
$  @NSDS$IVP
```

3.6 Using RdbAccess for VAX RMS

To use RdbAccess for VAX RMS, follow these steps: To use VAX SQL with RdbAccess for VAX RMS for access to an RMS data source or VSAM data set, do the following:

1. Create field and record definitions in the CDD/Plus data dictionary for each data file.
2. Create database definitions in the CDD/Plus data dictionary.
3. Insert the SQL statement DECLARE SCHEMA FILENAME into the application source code or issue the statement in an interactive SQL session, using the schema name discussed in the *DEC RdbAccess for VAX RMS on VMS User's Guide*.

Once these steps have been completed, you can do read-only access operations on the data using VAX SQL with RdbAccess for VAX RMS.

For information on RdbAccess for VAX RMS usage and qualifiers, see the *DEC RdbAccess for VAX RMS on VMS User's Guide*, or enter the following DCL command:

```
$ HELP RDBACCESS_RMS
```

3.7 Post-Installation Check List

Table 3–2 summarizes the tasks you must perform after installing RdbAccess for VAX RMS. Check to make sure that you have performed all these tasks before making RdbAccess for VAX RMS available to users.

Table 3–2 Post-Installation Check List

Task	For More Information
Edit the system startup file	See Section 3.1
Activate RdbAccess for VAX RMS on a VAXcluster	See Section 3.2
Check privileges and quotas of the user accounts	See Section 3.3

A

Sample RdbAccess for VAX RMS Installation

This appendix shows a typical installation of RdbAccess for VAX RMS on a VMS Version 5.3 system that is running the latest version of Rdb/VMS.

Table 1–4 summarizes the tasks you must perform before installing RdbAccess for VAX RMS. Check to make sure that you have completed all these tasks before proceeding with the installation.

```
        Welcome to node MYNODE

Username:  SYSTEM [Return]
Password:          [Return]

   Welcome to VAX/VMS Version 5.3 on node MYNODE

   Last interactive login on Thursday,  07-JAN-1991 13:51
    Last non-interactive login on Thursday,  07-JAN-1991 13:51

$  REPLY/USER "Installation starting in 5 minutes. Please log out." [Return]
$  SET LOGINS/INTERACTIVE=0 [Return]
$  @SYS$UPDATE:VMSINSTAL NSDS MUA0: OPTIONS N [Return]

    VAX/VMS Software Product Installation Procedure V5.3

It is 07-JAN-1991 at 13:51.

Enter a question mark (?) at any time for help.

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

Please mount the first volume of the set on MUA0:.
* Are you ready?  YES [Return]

%MOUNT-I-MOUNTED, NSDS mounted on _MUA0:

The following products will be processed:
  NSDS V1.0


        Beginning installation of NSDS V1.0 at 13:51

%VMSINSTAL-I-RESTORE, Restoring product save set A ...
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.
```

```
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]:  2 Return

* Queue name [SYS$PRINT]:  Return
Job 810 (queue SYS$PRINT, entry 1295) started on SYS$PRINT

* Do you want to continue the installation [NO]?  YES Return

%VMSINSTAL-I-RELMOVED , The product's release notes have been
successfully moved to SYS$HELP.

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

    Installation procedures for: NSDS T1.2

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


    Checking system requirements ...


         Product:      RDBACCESS-RMS
         Producer:     DEC
         Version:      1.0
         Release Date: 1-JAN-1991

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

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

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

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

  There are no more questions. The installation takes
  approximately 15 minutes on a stand-alone VAX 8200

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

  Beginning installation ...

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

  Installing under VMS V5.3 - 07-JAN-1991 13:56

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

  The NSDS$STARTUP.COM file has been placed in
  SYS$STARTUP:NSDS$STARTUP.COM.  The following line
  should be placed in your system startup file.
```

```
  $ @SYS$STARTUP:NSDS$STARTUP.COM

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

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

  $ SET DEFAULT SYS$COMMON:[SYSTEST.NSDS$IVP]
  $ @NSDS$IVP

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

  Adding RDBACCESS_RMS help to the DCL help library

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

  ******************************************************
  The qualifier LGICMD for the RDB$REMOTE account in SYSUAF
  is modified by this installation.

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

%NSDS-I-NOTINSTALLED, VMI$KWD:RDBSERVER.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is the same as current file
%NSDS-I-NOTINSTALLED, VMI$KWD:RDBSHR.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is the same as current file
%NSDS-I-NOTINSTALLED, VMI$KWD:RDBMSGS.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is the same as current file
%NSDS-I-NOTINSTALLED, VMI$KWD:RDBBMSGS.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is the same as current file
%NSDS-I-NOTINSTALLED, VMI$KWD:VIDA_MESSAGE.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is the same as current file
%NSDS-I-NOTINSTALLED, VMI$KWD:RDMSMSG.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is older than current file
%NSDS-I-NOTINSTALLED, VMI$KWD:RDMMSGSHR.EXE was not installed by this kit
%NSDS-I-REASON, Image ident version of new file is older than current file

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

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

  The NSDS IVP verifies that all files are properly in place and that
  VAX SQL commands can be executed on RMS files.

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

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

    Performing NSDS IVP for: NSDS V1.0

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


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

```
     Checking the existence of RdbAccess for VAX RMS files.
  ************************************************************


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

     Checking for a sample CDD/Plus Dictionary.
   ************************************************************

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

     The sample dictionary was not found.  Please wait while one
     is created.  Please ignore any CDO informational messages.
   ************************************************************
%CDO-I-FILECRE, file SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]NSDS$EMPLOYEES.DAT; created
%CDO-I-FILECRE, file SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]NSDS$JOBHIST.DAT; created
%CDO-I-FILECRE, file SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]NSDS$COLLEGES.DAT; created
%CDO-I-FILECRE, file SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]NSDS$DEGREES.DAT; created
%CDO-I-FILECRE, file SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]NSDS$DEPTS.DAT; created
%CDO-I-FILECRE, file SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]NSDS$JOBS.DAT; created
%CDO-I-FILECRE, file SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]NSDS$SALHIST.DAT; created
   ************************************************************

     Executing a SQL sample query against an RMS file.  The tuple

     00418 Blount Peter

     should be displayed.
   ************************************************************

 EMPLOYEE_ID   LAST_NAME        FIRST_NAME
 00418         Blount           Peter
1 row selected
   ******************************************************

  NSDS V1.0 IVP completed successfully
  ******************************************************

Installation of NSDS V1.0 completed at14:06

        VMSINSTAL procedure done at 14:06

$  SET LOGINS/INTERACTIVE=64
$  REPLY/USER "Installation complete. System is ready for use."
```

Table 3–2 summarizes the tasks you must perform after installing RdbAccess for VAX RMS. Check to make sure that you have completed all these tasks before making RdbAccess for VAX RMS available to users.

B

RdbAccess for VAX RMS Files

This appendix lists all the files that are transferred to your system during a RdbAccess for VAX RMS installation. The files are organized by directory. The file name and approximate file size in blocks are listed for each file.

In SYS$STARTUP:

```
NSDS$STARTUP.COM                5
```

In SYS$SYSTEM:

```
RDB$REMOTE_LOGIN.COM            4
RDBSERVER.COM                   1
RDBSERVER.EXE                  27
```

In SYS$HELP:

```
NSDS$MESSAGES.DOC             107
NSDS010.RELEASE_NOTES          56
RDB_MSG.DOC                   258
```

In SYS$COMMON:[SYSHLP.EXAMPLES.NSDS]:

```
NSDS$COLLEGES.DAT               3
NSDS$CREATE_DATABASE.CDO       24
NSDS$DEGREES.DAT               12
NSDS$DELETE_DATABASE.CDO        6
NSDS$DEPTS.DAT                  3
NSDS$EMPLOYEES.DAT             24
NSDS$JOBHIST.DAT               21
NSDS$JOBS.DAT                   3
NSDS$SALHIST.DAT               39
NSDS$WORK_STATUS.DAT            3
```

In SYS$LIBRARY:

```
NSDS$DDI_RMS_SHR.EXE          102
NSDS$MDI_CDD_SHR.EXE           75
NSDS$SHR.EXE                  813
RDBSHR.EXE                    233
```

In SYS$MANAGER:

```
RDBSERVER_NCP.COM              1
VAXINFO$NETOBJ_INSERT.COM     14
```

In SYS$MESSAGE:

```
NSDS$MESSAGE.EXE              30
RDBMSGS.EXE                   18
```

In SYS$SYSROOT:[SYSTEST.NSDS$IVP]:

```
NSDS$IDENT.COM                 1
NSDS$IVP.COM                  11
NSDS$SAMPLE_QUERY.SQL          1
```

In SYS$UPDATE:

```
VAXINFOINSTALL.COM           138
```