AA–FX80E–TE

VAX TEAMDATA

Installation Guide

May 1990

This manual contains information on installing VAX TEAMDATA.

OPERATING SYSTEM:	VMS Version 5.0 or higher
SOFTWARE VERSION:	VAX TEAMDATA Version 1.4

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Preface

Purpose of This Guide

This guide describes how to install VAX TEAMDATA 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 and maintaining system software. To install the VAX TEAMDATA 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

This manual includes five chapters and two appendixes:

Chapter 1	Explains how to plan the installation and prepare your system.
Chapter 2	Explains how to install the software and run the Installation Verification Procedure (IVP).
Chapter 3	Explains how to change your VMS system by adjusting the required characteristics for running TEAMDATA.
Chapter 4	Explains how to detect, solve, and report problems you may encounter after installing TEAMDATA.
Chapter 5	Explains how to install TEAMDATA in an ALL-IN-1 menu.
Appendix A	Lists the files included in the TEAMDATA kit.
Appendix B	Presents the log of a sample installation of TEAMDATA.

For More Information

For more information on TEAMDATA, refer to:

- *Introduction to VAX TEAMDATA*
- *Using VAX TEAMDATA*
- *VAX TEAMDATA Command Summary*
- *VAX TEAMDATA Quick Reference Guide*

For more information about the VMSINSTAL procedure, refer to:

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

For information on running RALLY applications from TEAMDATA, refer to the *VAX RALLY Application User's Guide*.

For more information on VAX Xway, refer to the *VAX Xway User's Guide*. Xway is used in the TRANSFER IMPORT and TRANSFER EXPORT commands.

For more information on VIDA, refer to the *VIDA with IDMS/R Handbook*. VIDA is used in the TRANSFER MAKE_KNOWN TABLE command when accessing IBM databases.

For more information on VIDA for DB2, refer to the *VIDA Client for DB2 Handbook*.

For more information on managing Rdb/VMS databases and using the RDO utility, refer to the *VAX Rdb/VMS Guide to Database Maintenance and Performance*.

For more information about using TEAMDATA with ALL-IN-1, refer to the *ALL-IN-1 Office Menu System Manager's Guide*.

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.
user input	Red ink indicates information that you must enter from the keyboard or a screen object that you must choose or click on. 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.

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.

1

Preparing for Installation

This chapter describes tasks that you must complete before installing TEAMDATA. Installing TEAMDATA 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 is has enough memory and available disk space to install and run TEAMDATA.
- Make sure that your system has the required VMS operating system components and the prerequisite software.
- If you are installing on a VAXcluster, decide where to install TEAMDATA, depending on your configuration.
- Register and load your TEAMDATA 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 installation takes approximately 50 minutes, depending on your type of media and your system configuration.

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 VAX TEAMDATA distribution kit contains:

- A bill of materials (BOM) and indented bills report (BIL)
- The distribution medium for the TEAMDATA software
- Documentation for the product.

  Media Only kits include just the installation guide.
- The TEAMDATA LMF license

To ensure that you have a complete kit, check the kit contents against the bill of materials and the indented bills report.

Check also that you received the correct distribution medium, labeled as TEAMDATA V1.4.

If your kit is damaged or if you find that parts of it are missing, contact your Digital representative.

1.2 Prerequisite Hardware

You need the following hardware and memory to install and run TEAMDATA:

Hardware required:	TEAMDATA runs on all VAX systems, except the VAX–11/725, VAX–11/782, MicroVAX I, VAXstation I, and VAXstation 8000. For a complete list of processors, see the VAX TEAMDATA Software Product Description.
Memory required:	4 megabytes.
Disk space required:	See Table 1–3.

1.3 Required Operating System Components

TEAMDATA requires the following VMS Version 5.0 components:

- VMS required files (BASE)
- Network support (NETWORK), if you intend to use remote databases or send reports to other systems using the Mail utility

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

1.4 Prerequisite Software

To install TEAMDATA Version 1.4, you need the following software installed on your system:

- A valid VMS operating system configuration running VMS Version 5.0 or higher.
- Your VAX TEAMDATA Software License registered. See Section 1.6 for more information.
- One of the following Rdb/VMS kits:
  - Rdb/VMS Full Development Kit Version 3.0-B or higher
  - Rdb/VMS Interactive Kit Version 3.0-B or higher
  - Rdb/VMS Run-Time Kit Version 3.0-B or higher

Contact your DIGITAL representative if you have questions about the compatibility of other software products with this version of TEAMDATA. You can request the most recent copy of the *VAX System Support Addendum*, SPD 27.02.04-A, which will verify which versions of your operating system are compatible with this version of TEAMDATA.

1.4.1 TEAMDATA and VAX Rdb/VMS

VAX Rdb/VMS is a prerequisite for TEAMDATA. You must have either the full development, interactive, or the run-time license for Rdb/VMS. If you do not have VAX Rdb/VMS installed on your system, or if you have only the remote kit, TEAMDATA will not run.

To find out which version of Rdb/VMS is running on your system, type at the DCL prompt:

```
$ RUN SYS$SYSTEM:RDO
```

The RDO prompt is displayed. To see what version of Rdb/VMS is installed on your system, use the SHOW VERSION command, as in the example that follows. RDO displays the version number. Use the exit command to exit from RDO.

```
RDO> SHOW VERSION
Current version of RDO is:  Rdb/VMS V3.0-B
RDO> EXIT
```

1.5 Optional Software

You can use the following software with VAX TEAMDATA Version 1.4:

- ALL-IN-1 Version 2.1 or higher
- VAX RALLY Version 2.1 or higher
- VAX DATATRIEVE Version 4.0 or higher
- VAX CDD/Plus Version 3.4 or higher
- VAX DBMS Version 3.0 or higher
- VAX Xway Version 1.1
- VIDA with IDMS/R Version 2.0
- VIDA for DB2 Version 1.0

However, none of this software is required to run TEAMDATA. If you do not have the optional software described in the following sections, you do not need to read those sections.

1.5.1 TEAMDATA and VAX DATATRIEVE

If you want to use DATATRIEVE domains through TEAMDATA, you must have DATATRIEVE Version 4.0 or higher installed on your system. DATATRIEVE requires VAX CDD/Plus Version 3.4 or higher.

1.5.2 TEAMDATA and VAX RALLY

If you want to run VAX RALLY applications from TEAMDATA, you must have RALLY Version 2.1 or higher installed on your system.

1.5.3 TEAMDATA and VAX Xway

If you want to use the TRANSFER IMPORT and TRANSFER EXPORT commands in TEAMDATA, you must have VAX Xway Version 1.1 installed on your system.

1.5.4 TEAMDATA and VIDA

If you want to use TEAMDATA to access information stored in IBM databases, you must have VIDA with IDMS/R Version 2.0 or VIDA for DB2 Version 1.0 installed on your system.

1.6 Registering Your License

You must register and load your TEAMDATA 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 TEAMDATA. TEAMDATA asks you early in the installation procedure if you have an authorization key registered and loaded. You can install TEAMDATA Version 1.4 without the authorization information, but you will not be able to run TEAMDATA or the IVP (Installation Verification Procedure) until you register and load the license.

Note *If you are reinstalling TEAMDATA, do not reregister the Software License.*

To register the license for 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 TEAMDATA on more than one node in a VAXcluster, you must perform a LICENSE LOAD on the other nodes after you complete this installation.

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

1.7 VAXcluster Considerations

You can install TEAMDATA on a VAXcluster.

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

In a multiple-system VAXcluster, you can install TEAMDATA on each system disk in the cluster.

You must check the number of global sections and global pages on each node in the VAXcluster where you plan to install TEAMDATA. See Section 1.8.4 for more information.

After you install TEAMDATA, you must run the TEAMDATA startup command procedure (SYS$STARTUP:TDA$STARTUP.COM) on every cluster node where you want to run TEAMDATA. See Section 3.3 for details.

1.8 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 TEAMDATA. These characteristics include:

- Account privileges
- Account quotas
- Disk space requirements
- System parameters

You must adjust those characteristics of your system and account that do not match the minimum values required for installing and running TEAMDATA.

1.8.1 Checking Privileges of the Installing Account

The account you use to install TEAMDATA 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.

Before you start the VMSINSTAL command procedure, however, you might need to prepare your system for the installation. For example, you might have to run SYSGEN or AUTHORIZE. Some of these preparations require that your account have specific user privileges, which might not be among default privileges assigned to your account.

Table 1–1 shows you what privileges you need for various installation tasks.

Table 1–1 Required Installer Privileges

Name	Privilege Granted
CMKRNL	Change mode to kernel
EXQUOTA	Allow disk space to exceed established quotas
NETMBX	Allow user to perform network-related functions
OPER	Perform operator functions
SETPRV	Enable any privilege
SYSNAM	Insert system logical names in the name table
SYSPRV	Access resources as if process has a system UIC
TMPMBX	Create temporary mailbox
WORLD	Allow access to other processes

To check the privileges of the installing account, use the SHOW PROCESS /PRIVILEGES command. If the SYSTEM account does not have the privileges listed in Table 1–1, use AUTHORIZE to grant them permanently or use the SET PROCESS/PRIVILEGES command to grant them for this installation.

1.8.2 Checking and Setting User Process Quotas

In order to run TEAMDATA and the TEAMDATA Installation Verification Procedure (IVP), your process quotas must be equal to or greater than the values shown in Table 1–2.

Table 1–2 Required User Process Quotas

Process Quotas	Recommended Minimum	Controlling Qualifier	Defining Utility
Buffered I/O byte count quota	20,480	BYTLM	AUTHORIZE
Enqueue quota	600	ENQLM	AUTHORIZE
Open file quota	60	FILLM	AUTHORIZE
Maximum number of detached processes	2[1]	MAXDETACH	AUTHORIZE
Maximum number of jobs	3[1]	MAXJOBS	AUTHORIZE
Subprocess quota	1	PRCLM	AUTHORIZE
Working set/Extent	1024	WSEXTENT	AUTHORIZE
Working set/Quota	512	WSQUOTA	AUTHORIZE
Page file quota	20,000	PGFLQUO	AUTHORIZE

[1]A value of zero for these parameters indicates no limit

These are minimum values. In some cases, you might need higher quotas. For example:

- If many users on your system are doing many database operations at the same time, you might need to increase the ENQLM parameter.
- If you plan to run TEAMDATA from ALL-IN-1, you might want to increase these quotas, especially BYTLM and PRCLM.
- If users are working with large tables or sheets, TEAMDATA may use more virtual memory than usual. You might want to increase the Page File Quota (PGFLQUO) in AUTHORIZE to a value greater than 20,000.

Note the MAXDETACH and MAXJOBS quotas. These parameters limit the number of TEAMDATA entries a user can have open at one time. A value of 0 for these parameters indicates that there is no limit on the number of entries a user can have open.

If one or more of your quotas do not match or exceed the required quotas, note the quotas you must change, and plan to make the changes before you run TEAMDATA. To change these quotas, you or your system manager must use the AUTHORIZE utility. If you change any process quotas, you must log out of the account and log in again so that the new values become active.

1.8.3 Disk Space Requirements

Your system must have sufficient disk storage space to accommodate the installation. Table 1–3 lists the required free disk blocks.

You can reduce the disk allocation required to install and run TEAMDATA by installing the TEAMDATA directory on a disk other than your system disk.

Table 1–3 Disk Requirements

Installation Option	Blocks on System Disk (To Install)	Blocks on System Disk (To Run)
TEAMDATA entirely on system disk	13,700	12,900
TEAMDATA directory on another disk	13,700	8,300

Use the DCL command SHOW DEVICE to determine the number of free blocks that are presently available on the target disk. For example, to display the number of free blocks on the system disk, type:

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

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

1.8.4 Checking and Setting System Parameters

Before you install TEAMDATA, you should compare the values of the system parameters listed in Table 1–4 with the values on your system. The installation procedure checks all system parameters and stops if any one parameter does not meet the values listed in Table 1–4. You can avoid the halting of the installation at that point by checking the parameters beforehand. Instructions for making the comparison and changing parameters follow the table.

If the parameter is labeled Dynamic, you can make a change in the parameter effective without rebooting the system.

Table 1–4 Required System Parameters

Parameter Name	Required Minimum	Unit	Type
CLISYMTBL	500[2]	Pages	Dynamic
GBLPAGES	5800[1]	Pages	
GBLPAGFIL	2048	Pages	
GBLSECTIONS	53[1]	Sections	
LOCKIDTBL	256	Entries	
LOCKIDTBL_MAX	2048	Entries	Dynamic
MAXBUF	1584	Bytes	Dynamic
RESHASHTBL	512	Entries	
SRPCOUNT	1024	Packets	
SRPCOUNTV	2048	Packets	
VIRTUALPAGECNT	19,000	Pages	

[1]In addition to the current value.

[2]Required only for installation.

Note that the CLISYMTBL value of 500 is required only for the installation and not as a permanent change. To set this parameter to the proper value for installation, use the SYSGEN Utility as follows:

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN > SET CLISYMTBL 500
SYSGEN > WRITE ACTIVE
SYSGEN > EXIT
```

After setting the CLISYMTBL parameter, log out and log back in again.

To check the parameters listed in Table 1–4, except for GBLSECTIONS and GBLPAGES, log in to the SYSTEM account, and compare them with the output of the SYSGEN utility's SHOW command.

The first number on the left is the current parameter value.

For example:

```
$ RUN SYS$SYSTEM:SYSGEN
 SYSGEN> USE CURRENT
 SYSGEN> SHOW LOCKIDTBL
 Parameter Name          Current   Default   Minimum   Maximum Unit  Dynamic
 --------------          -------   -------   -------   ------- ----  -------
 LOCKIDTBL                  4096       128        16     16000 Entries
 SYSGEN> EXIT
 $
```

The procedure for checking global sections and global pages is somewhat different. 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 1–4, you must increase the value using the AUTOGEN command procedure. See the following section for details.

See Section 4.2 for more information on the global sections and global pages parameters.

1.8.5 Changing System Parameters

If you must change these or any other system parameters, plan to change them before you begin the installation procedure. To modify these values, edit SYS$SYSTEM:MODPARAMS.DAT, the parameter data file used by AUTOGEN. For example, to provide additional global sections and set the LOCKIDTBL to 256, edit MODPARAMS.DAT and add the following lines, or change the existing lines as follows:

```
ADD_GBLSECTIONS=53

MIN_LOCKIDTBL=256
```

Because these system parameters are not dynamic, you must run AUTOGEN to recompute them. If you wish, you can reboot, or you can use AUTOGEN to activate the new parameters for the installation without bringing your system down. Use one of the following two procedures:

Procedure 1:

The following command sequence **shuts down the system and reboots**, activating the new system parameters:

```
$ @SYS$UPDATE:AUTOGEN SAVPARAMS GENPARAMS
$ @SYS$UPDATE:AUTOGEN SETPARAMS REBOOT
```

Procedure 2:

To set the system parameters for the installation **without shutting down and rebooting the system**, enter the following commands:

```
$ @SYS$UPDATE:AUTOGEN SAVPARAMS SETPARAMS
```

Note that you can continue with the installation. However, TEAMDATA will not run properly until after you reboot the system.

If you choose this method, you can reboot the system later, using this command:

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

1.9 Performance Considerations

The major factors to consider when supporting many TEAMDATA users are physical memory size and system parameter settings. Each TEAMDATA user requires approximately 3/4 megabyte of memory, based on two servers per active user. Therefore, it is important that enough free memory is available on the system.

Several system parameters can affect TEAMDATA performance. This section describes parameters that you can modify to improve performance. The following sections discuss these performance topics:

- Memory management
- Paging and swapping files
- System parameters

Note *The quotas suggested in this section are minimum values. If you frequently perform operations such as accessing large tables, joining large tables, or importing and exporting large amounts of data, larger quotas might be necessary to enhance performance.*

For additional information on VMS performance, see the *Guide to VMS Performance Management*.

For information on the parameters and quotas required to run VAX Rdb/VMS and for information on tuning your Rdb/VMS database system, see the *VAX Rdb/VMS Installation Guide* and the *VAX Rdb/VMS Guide to Database Maintenance and Performance*.

1.9.1 Memory Management

TEAMDATA requires large user working sets to run optimally. As a result, you should set the following process account parameters to the indicated values:

- WSDEFAULT=256
- WSQUOTA=512
- WSEXTENT=1024 to 4096

Note that the SYSGEN parameter WSMAX must at least equal the largest value of any user's WSEXTENT account parameter. Specify a large value for WSEXTENT to minimize paging on the system.

1.9.2 Paging and Swapping Files

Each TEAMDATA user requires approximately 6000 pages of paging file space. As a result, you may need to increase the size of your system's paging files. If the page file is too small, page file fragmentation can occur. This significantly degrades system performance.

To obtain an initial size for the system swap file, multiply the maximum number of all concurrent users by their average WSQUOTA value.

If several TEAMDATA users are active on the system at the same time, you might want to set up multiple paging and swapping files, distributed across multiple disks. Base this decision on normal VMS performance considerations such as I/O activity and disk space availability.

1.9.3 System Parameters

Table 1–4 lists the minimum system parameter values required to install TEAMDATA. These values are satisfactory for a small number of active users. However, if there are many concurrent TEAMDATA users and many Rdb /VMS users, you may need to adjust some system parameters to obtain better performance. The recommended values for these system parameters are listed here. You can adjust these parameters independently by using the SYSGEN facility, or by using the feedback mechanism of AUTOGEN.COM:

- LOCKIDTBL - Determines the total number of resources that can be locked on the system at one time.

  Suggested setting: 2048

- RESHASHTBL - Defines the number of entries in the lock management resource name hash table. This value should be set to one-fourth the value of LOCKIDTBL, rounded up to the closest power of 2.

  Suggested setting: 512

- SRPCOUNT, SRPCOUNTV - These parameters control the number of small request packets. You should monitor the use of SRPs on the system using the DCL command SHOW MEMORY. If the size of the Small Packet (SRP) List "In Use" value is greater than the "Total" value, then you should set the value of SRPCOUNT to the greater value. This eliminates some process resource waits and decreases response time.

  SRPCOUNTV should be set to LOCKIDTBL plus the previous value of SRPCOUNTV. The number of SRPs on the system can grow to the value of SRPCOUNTV.

  Suggested settings: SRPCOUNTV = 4096, SRPCOUNT = 2048.

- IRPCOUNT, IRPCOUNTV - These parameters control the number of I/O request packets. You should use the DCL command SHOW MEMORY to monitor the use of IRPs on the system. If the size of the I/O Request Packet (IRP) List "In Use" value is greater than the "Total" value, then you should set the value of IRPCOUNT to the greater value. This eliminates some process resource waits and decreases response time.

  The number of IRPs on the system can grow to the value of IRPCOUNTV.

  Suggested settings: IRPCOUNTV = 1000, IRPCOUNT = 256.

- NPAGEDYN, NPAGEVIR - NPAGEDYN sets the size of the nonpaged dynamic pool in bytes. This pool can grow dynamically to the limit set by NPAGEVIR. You should use the DCL command SHOW MEMORY to monitor the size of nonpaged pool on the system. If the size of the Nonpaged Dynamic Memory "Total" value is greater than the value of NPAGEDYN, then you should set the value of NPAGEDYN to the greater value. This eliminates some process resource waits and decreases response time.

  The size of nonpaged dynamic pool can grow to the value of NPAGEVIR.

1.10 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 VMS System Management Subkit documentation.

2
Installing TEAMDATA

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

Before you begin installing TEAMDATA, make sure that your system meets the requirements outlined in Chapter 1.

You should allow approximately 50 minutes to complete the installation. The actual time required depends on the configuration of your system, the choices you make during the installation, and the type of media you use.

This installation uses the VMSINSTAL command procedure. For more information about VMSINSTAL, refer to the following books in your VMS documentation set:

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

Note *If you already have another version of TEAMDATA installed on your system,* ***and*** *you want to change the location of TEAM$LIBRARY, make the change before you begin the installation. See Section 3.1 for instructions.*

2.1 Running the VMSINSTAL Command Procedure

Use the VMSINSTAL command procedure to install TEAMDATA. Follow these steps to begin the installation:

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 Check that the Rdb/VMS monitor is running.

If you are certain that the Rdb/VMS monitor is running, proceed with the installation. If you are not certain, enter the following command:

```
$ @SYS$MANAGER:RMONSTART
```

If the monitor is not running, this command starts it. If the monitor is running, this command has no effect; the monitor continues to run.

4 Invoke VMSINSTAL.

Enter the following command line to run VMSINSTAL.COM:

```
$ @SYS$UPDATE:VMSINSTAL TDA014 ddcu: OPTIONS N
```

where:

- *@SYS$UPDATE:VMSINSTAL* invokes VMSINSTAL
- *TDA014* is the save set name for the TEAMDATA software
- *ddcu:* is the device specification for the distribution medium, for example, MUA0:.
- *OPTIONS N* is 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 important information about the installation.

After you invoke VMSINSTAL, you see the following message:

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

It is 05-JAN-1990 at 09:55.

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

5 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, type 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.

6 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, TDA014          mounted on _MUA0:

The following products will be processed:

  TDA V1.4

        Beginning installation of TDA V1.4 at 10:00

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

7 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.

Note *If your system is running VMS V5.0 or V5.1, this question is slightly different. You can choose from five additional options.*

```
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]:
```

You should 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.

If you choose to print 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 display.

8 Decide whether or not to continue.

The installation procedure now asks if you want to continue:

```
 * Do you want to continue the installation? [N]?

%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$HELP directory. The Release Notes are contained in the following file: SYS$HELP:TDA$014.RELEASE_ NOTES.

You then see the following message:

```
*****************************************************************
*                                                               *
*                    TEAMDATA version: V1.4                     *
*                                                               *
*                    Installation Procedure                     *
*                        on Node: MYNODE                        *
*                  on 05-JAN-1990 10:02:24.71                   *
*                                                               *
*     Copyright (c) 1990 by Digital Equipment Corporation       *
*                                                               *
*****************************************************************
```

9 Answer the license registration question.

The installation procedure asks if you have registered a TEAMDATA product authorization key, using the License Management Facility (LMF).

```
        Product:      TEAMDATA
        Producer:     DEC
        Version:      V1.4
        Release Date: 26-APR-1990

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

Answer YES if your PAK is registered and loaded. The installation then proceeds in the usual manner. If you answer NO, you then respond to the following prompt:

```
 * Do you want to continue with the installation [YES]?
```

If you answer YES, you see the following message:

```
*****************************************************************
*                                                               *
*  The installation can proceed, but you will not be able to run  *
*  TEAMDATA or the IVP (Installation Verification Procedure)      *
*  until the authorization key is registered and loaded.          *
*                                                               *
*****************************************************************
```

If you answer NO to this question, the installation halts. Refer to Section 1.6 for information about registering your product authorization key.

10 Check any system requirements error messages.

The installation procedure displays the following message:

```
*****************************************************************
*                                                               *
*  Please wait while the system environment is checked out.     *
*                                                               *
*****************************************************************
```

The installation procedure checks several system characteristics, including:

- The number of blocks available on your system disk
- The VAX/VMS version your system is running
- The current value of process quotas
- The current value of system parameters

If any system characteristic does not meet the minimum required value, the installation displays an error message and may ask if you want to continue with the installation.

For example:

```
*****************************************************************
*                                                               *
*                        Warnings and Errors                    *
*                        -------------------                    *
*                                                               *
*                                                               *
* [SYSGEN parameter] LOCKIDTBL_MAX is 1361 ... required minimum: 2048 *
*                                                               *
*                                                               *
*   In order for the installation to succeed, you need to correct     *
*   what's listed above.                                        *
*                                                               *
*****************************************************************
```

Depending on the type of error, you should correct a problem either before continuing the installation procedure or before running TEAMDATA or the IVP.

For example:

```
*********************************************************************
*                                                                   *
*  The installation can proceed, but you will not be able to run    *
*  TEAMDATA or the IVP (Installation Verification Procedure).       *
*                                                                   *
*********************************************************************

* Do you want to continue with the installation? [YES]?
```

If you answer NO, you can fix the problem and begin again at Step 4.

11 Choose the location of TEAM$LIBRARY.

You see this message:

```
*********************************************************************
*                                                                   *
*   TEAMDATA creates a directory to put product specific files in.  *
*      The logical TEAM$LIBRARY will point to this directory.       *
*      These files amount to about 4600 disk blocks.                *
*      The default is recommended.                                  *
*                                                                   *
*********************************************************************

* Where should the TEAMDATA directory go [SYS$COMMON:[TEAMDATA]]:
```

Note *If you are upgrading from a previous version of TEAMDATA, you see this additional message:*

```
*      This directory already exists in: SYS$COMMON:[TEAMDATA]       *
```

By default, TEAMDATA creates a directory SYS$COMMON:[TEAMDATA] with the logical name TEAM$LIBRARY on your system disk. TEAM$LIBRARY contains files necessary to run TEAMDATA.

If system disk space is low, you have the option of placing this library on another disk. If you decide to place TEAM$LIBRARY elsewhere, you must modify your SYSTARTUP_V5.COM file. See Section 3.1 for instructions.

Press RETURN to create the default library, or enter another directory. You see the following message:

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$COMMON:[TEAMDATA].
```

12 Replace or keep TDADEFDB.

The TDADEFDB TEAMDATA database contains the sample database that is copied to user's folders when they first run TEAMDATA. If you already have another version of TEAMDATA installed on your system, the following information applies. If you are installing TEAMDATA for the first time, the following information does not apply, and you do not see the message shown below.

```
*****************************************************************
*                                                               *
*   TEAMDATA has a "default" database.                          *
*   This is copied to new user's accounts when they first use   *
*   TEAMDATA.                                                   *
*                                                               *
*   This database is installed in TEAM$LIBRARY.                 *
*                                                               *
*****************************************************************

Your system has a default user database:
SYS$COMMON:[TEAMDATA]TDADEFDB.RDB;1

* Do you want to replace it [No]?
```

If you have modified TDADEFDB, you may want to keep using your version of TDADEFDB, instead of installing the new version. However, you will not be working with the latest version of the default database.

If you have not modified TDADEFDB, you should install the new database by entering YES.

13 Decide whether on not to purge files.

VMSINSTAL asks whether 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.

14 Decide whether or not to run the IVP.

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

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

The TEAMDATA IVP checks to be sure the installation is successful. Digital recommends that you run the IVP. Press RETURN.

15 Check informational messages.

The installation procedure displays a message that reminds you to edit the SYSTARTUP_V5.COM file to add a command that invokes TDA$STARTUP.COM:

```
*****************************************************************
*                                                               *
*   SYSTEM MANAGER:                                             *
*                                                               *
*   Add to the system startup file: SYS$MANAGER:SYSTARTUP_V5.COM:   *
*                                                               *
*           $ @SYS$STARTUP:TDA$STARTUP.COM                      *
*                                                               *
*   (For clusters, add this to the startup for each node)       *
*                                                               *
*****************************************************************
```

You must edit SYSTARTUP_V5.COM on all nodes that run TEAMDATA. If you do not do this, TEAMDATA will not be available when the system is rebooted.

16 Check file transfer messages.

The installation procedure displays a series of informational messages as it creates directories, transfers files and installs databases.

```
*****************************************************************
*                                                               *
*  You've answered ALL the questions for the installation.      *
*                                                               *
*  The installation takes about 30 to 45 more minutes to complete.  *
*                                                               *
*****************************************************************

%VMSINSTAL-I-RESTORE, Restoring product save set B...
%VMSINSTAL-I-RESTORE, Restoring product save set C...
%VMSINSTAL-I-RESTORE, Restoring product save set D...
%VMSINSTAL-I-RESTORE, Restoring product save set E...

*****************************************************************
*                                                               *
*   Installing Sample Database...                               *
*                                                               *
*****************************************************************
*                                                               *
*   Installing Default User Database...                         *
*                                                               *
*****************************************************************
*                                                               *
*   Installing Public Folder Database...                        *
*                                                               *
*****************************************************************

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.TDA$IVP].
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
VAX TEAMDATA: Installing TEAMDATA images
VAX TEAMDATA: Starting System Interconnect
```

If the installation fails and displays the following error message, you need to raise the number of pages defined by the system parameter CLISYMTBL:

```
%DCL-W-SYMOVF, no room for symbol definitions - delete some symbols
```

Use SYSGEN to change this parameter and restart the installation at step 4. See Section 1.8.2 for more information about the CLISYMTBL parameter.

17 Run the TEAMDATA IVP.

The installation procedure runs the TEAMDATA Installation Verification Procedure.

```
**** Executing IVP for: VAX TEAMDATA V1.4
        **** Running Folder Test
        **** Folder Test Succeeded

        **** Running Table Test
        **** Table Test Succeeded

        **** Running Spreadsheet Test
        **** Spreadsheet Test Succeeded

        ******************************
        VAX TEAMDATA V1.4
        IVP COMPLETED SUCCESSFULLY
        ******************************
**** IVP completed for: VAX TEAMDATA V1.4
```

18 End the installation procedure.

The installation procedure ends automatically with the following message:

```
        Installation of TDA V1.4 completed at 10:50
        VMSINSTAL procedure done at 10:51
```

At the end of the installation, VMSINSTAL returns you to DCL command level.

19 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 the tasks you must complete after TEAMDATA is installed. These tasks are:

- Deciding where to put TEAM$LIBRARY
- Editing the SYSTARTUP_V5.COM file
- Activating TEAMDATA on a VAXcluster
- Running TEAMDATA
- Granting required user privileges to TEAMDATA users
- Granting required quotas to TEAMDATA users
- Setting the limit on Run Unit Journal files
- Granting users on other systems access to your TEAMDATA databases
- Shutting down TEAMDATA

3.1 Moving TEAM$LIBRARY

If you want to save space on your system disk, you can move the TEAMDATA directory to another disk. The TEAMDATA directory is defined by the logical name TEAM$LIBRARY.

For example, assume you have a logical named USER$DISK that points to a disk other than the system disk. To move the TEAMDATA directory to USER$DISK, use these commands:

```
$ CREATE/DIRECTORY USER$DISK:[BIZ_PRODS.TEAMDATA]
$ COPY/LOG TEAM$LIBRARY:*.*;* USER$DISK:[BIZ_PRODS.TEAMDATA]*.*;*
$ DELETE TEAM$LIBRARY:*.*;*
$ DEFINE/SYSTEM/EXEC TEAM$LIBRARY USER$DISK:[BIZ_PRODS.TEAMDATA]
$ DELETE SYS$COMMON:[000000]TEAMDATA.DIR
```

3.2 Editing SYSTARTUP_V5.COM

To have VAX TEAMDATA V1.4 started automatically when your system is booted, edit the site-specific startup file, SYS$MANAGER:SYSTARTUP_V5.COM.

Add the following line to the file:

```
$ @SYS$STARTUP:TDA$STARTUP
```

If you redefined TEAM$LIBRARY to refer to a disk other than the system disk, you must add the definition to SYSTARTUP_V5.COM.

For example, if you redefined the TEAM$LIBRARY logical so that TEAM$LIBRARY resides on USER$DISK:[BIZ_PRODS.TEAMDATA], add the following lines in the order they appear to SYSTARTUP_V5.COM:

```
$ @SYS$STARTUP:TDA$STARTUP
$ DEFINE/SYSTEM/EXEC TEAM$LIBRARY USER$DISK:[BIZ_PRODS.TEAMDATA]
```

Because TDA$STARTUP.COM, defines TEAM$LIBRARY to be SYS$COMMON:[TEAMDATA], this command must follow the command that starts TEAMDATA when you edit the site-specific startup file.

3.3 Activating TEAMDATA on a VAXcluster

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

```
$  MCR SYSMAN
SYSMAN>  SET ENVIRONMENT/CLUSTER/USER=SYSTEM
Remote Password:  <system password for the cluster nodes>
SYSMAN>  DO LICENSE LOAD TEAMDATA
SYSMAN>  DO INSTALL REPLACE SYS$LIBRARY:DCLTABLES.EXE
SYSMAN>  DO @SYS$STARTUP:TDA$STARTUP.COM
SYSMAN>  EXIT
```

3.4 Running TEAMDATA

You do not need to reboot your system to run TEAMDATA. However, any user who was logged in during the TEAMDATA installation must first log out and then log in again before running TEAMDATA.

To run TEAMDATA, type the following command at the DCL prompt:

```
$  TEAMDATA
```

3.5 Running the Installation Verification Procedure Separately

If you answered YES to the IVP question during the TEAMDATA 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 TEAMDATA. See Section 1.8 for more information.

To run the IVP, use the following DCL command:

```
$ @SYS$TEST:TDA$IVP
```

3.6 DATATRIEVE Versions

The installation procedure warns you if you have DATATRIEVE installed, but do not have a file called SYS$SHARE:DTRSHR.EXE. Some systems have multiple versions of DATATRIEVE running at the same time. On these systems, instead of DTRSHR.EXE, there might be files such as DTRSHRV4.EXE. In this case, TEAMDATA asks you which file you want to use as your DATATRIEVE shareable image. It then defines a logical name DTRSHR, pointing to the file you have chosen. To make this choice permanent, you must place the following line in SYSTARTUP_V5.COM:

```
$ DEFINE/SYSTEM/EXEC DTRSHR SYS$SHARE:DTRSHRV4.EXE
```

If you change SYSTARTUP_V5.COM to include this line, TEAMDATA uses DTRSHRV4.EXE when TEAMDATA users work with DATATRIEVE domains.

3.7 Granting Required User Privileges

TEAMDATA uses temporary mailboxes to communicate with users. You must therefore grant TMPMBX privilege to all TEAMDATA users. In addition, those who use TEAMDATA to access databases on other nodes of a network need NETMBX privilege. Use AUTHORIZE, the user authorization utility, to grant these privileges.

For example:

```
$ SET DEFAULT SYS$SYSTEM
$ RUN AUTHORIZE
UAF> MODIFY WILLIAMSON/PRIV=(TMPMBX,NETMBX)
UAF> EXIT
$
```

3.8 Authorizing User Quotas

The process quotas listed in Table 1–2 apply to user accounts as well as to the installation account. Therefore, make sure all user accounts have these minimum quotas.

3.9 Managing Run Unit Journal Files

Rdb/VMS creates a journal file for each folder, table or sheet that a user opens. It is possible for Rdb/VMS to create and maintain more than one journal file simultaneously.

These files are placed in the user's SYS$LOGIN directory and have the file name TEAMDB.RUJ. The number of versions of a file that a user may have in a directory can be limited. If the user has several TEAMDATA entries open simultaneously, this limit might be exceeded. As a result, the user will not be able to open additional tables or sheets. You can solve this problem by making sure that the user's SYS$LOGIN directory has a high file version limit.

You can solve this problem in one of two ways:

- Make sure that the user's SYS$LOGIN directory has a version limit equal to twice the number of entries the user is allowed to open. The number of entries that users can open can be limited by the logical name TEAM$MAX_SERVERS. If TEAM$MAX_SERVERS is defined, then the file version limit should be set to at least twice the value of TEAM$MAX_SERVERS. If TEAM$MAX_SERVERS is not defined, the default value of three is used. In this case, you should set the file version limit to at least six. For more information on the TEAM$MAX_SERVERS logical, see *Using VAX TEAMDATA*.

  To change the version limit of a directory file, use the SET FILE command, as in the following example:

  ```
  $ SET FILE USER$DISK:[000000]USER.DIR/VERSION_LIMIT=6
  ```

  Note that a version limit of zero means that there is no limit on the number of files.

- If you do not want to increase the file version limit for the user's SYS$LOGIN directory, create a special subdirectory for the user's RUJ files. Then, set the file version limit on that directory and have the user define a job logical that points to that directory, as in the following example:

  ```
  $ DEFINE/JOB RDMS$RUJ USER$DISK:[USER.RUJ]
  ```

3.10 Granting Database Access to Users on Other Systems

If users on other systems are allowed to access databases stored on your system, the account associated with RDBSERVER must contain at least the minimum quotas recommended for TEAMDATA user accounts. These quotas are listed in Table 1–2.

To find out which account is associated with RDBSERVER, enter the following commands:

```
$ RUN SYS$SYSTEM:NCP
NCP> SHOW OBJECT RDBSERVER
```

NCP displays information about the account associated with RDBSERVER. If NCP does not display the information, then the DECnet account is the account used for remote access requests. In this case, the DECnet account should have the quotas listed in Table 1–2. Enter EXIT to leave NCP.

3.11 TEAMDATA Shutdown Procedure

TEAMDATA provides a shutdown procedure, TDA$SHUTDOWN.COM. The installation procedure copies this file to SYS$MANAGER. You do not need to run TDA$SHUTDOWN.COM every time you shut down your system, but you can run it manually to shut down TEAMDATA. For example, you would want to run TDA$SHUTDOWN.COM if you need to reinstall the TEAMDATA kit.

4

Maintaining TEAMDATA

This chapter explains some procedures you may need to follow if problems arise after installing TEAMDATA. The following sections explain how to:

- Read a bugcheck dump file
- Handle a problem of insufficient global pages
- Report a problem to the Customer Support Center

For information on restoring the TEAMDATA sample database, default database, and public folder database, see Appendix A of *Using VAX TEAMDATA*.

4.1 Reading a Bugcheck Dump File

Occasionally, a TEAMDATA fatal internal error generates a file called a bugcheck dump file. This file contains essential information about the error that occurred and the state of the system at the time of the error. This information becomes vital in tracking down the cause of the error; it is also important to Digital in fixing possible internal TEAMDATA problems. If such an error occurs, the message reports that TEAMDATA is creating a file called:

```
TDABUGCHK.DMP
```

This file is normally created in the directory associated with the SYS$LOGIN logical name.

To find the error that caused the dump, use the following command:

```
$ SEARCH/WIN TDABUGCHK.DMP "****"
```

Asterisks mark the location of the error message in the file. The /WIN qualifier results in a five-line window. For example:

```
$ SEARCH/WIN TDABUGCHK.DMP "****"
   2 7FF2548C: 00000003 03000001 00379120 00000000 0000000C 7FF25A90 00000004

***** Exception at 0008618B : TUT$$SCR_W_COPY + 00000CCA
%NONAME-W-NOMSG, Message number 00000000
```

You can use this information in three ways:

- Sometimes, this information can help you determine the cause of the error and work around it.
- You can use this information when you call the Customer Support Center.
- You should always include the entire bugcheck dump file when you submit an SPR to Digital.

  When reporting a problem to Digital, also include the database file and a description of the sequence of steps that caused the problem, if possible. This information will help Digital identify the cause of the problem.

The error may have been generated by part of system interconnect that is included in TEAMDATA. In this case, the error line in the dump file begins:

```
%RPC-E-
```

In this case, more information is contained in the RPC log file. To extract this information, follow these steps:

```
$ RUN SYS$SYSTEM:RPC$SWLUP
SWLUP> LIST EVENTS /SINCE=TODAY /OUTPUT=RPC.EVENTS
SWLUP> EXIT
$ SEARCH/WIN RPC.EVENTS "%"
```

The error line in the file is marked with the percent sign (%).

Another file that contains helpful information is the RDMMON.LOG file. This file contains information about Rdb transactions, including user name, date, and time of transaction. This file records both normal and abnormal activity.

If a problem occurs, search this file for a message indicating a problem, such as users exceeding their quotas.

4.2 Insufficient Parameter Values

After you have successfully installed and run TEAMDATA for a while, you might find that, when you run TEAMDATA, it returns to the DCL command level without initializing or displaying the Main Folder. Your display would look like this:

```
$ TEAMDATA
$
```

If this happens, check the SYS$LOGIN directory for a bugcheck dump file called TDABUGCHK.DMP. Check the date to make sure the file was just created. Search the dump file for the error:

```
$ SEARCH/WINDOW TDABUGCHK.DMP "***"
   2 7FF2548C: 00000003 03000001 00379120 00000000 0000000C 7FF25A90 00000004

***** Exception at 0008618B : ........
%RPC-E-INTERNAL, Internal error
```

If the results indicate an RPC error, use the RPC log to pinpoint the exact cause of the error:

```
$ RUN SYS$SYSTEM:RPC$SWLUP
SWLUP> LIST EVENTS /SINCE=TODAY /OUTPUT=RPC.EVENTS
SWLUP> EXIT
$ SEARCH/WIN RPC.EVENTS "%"
```

The error message will typically indicate that TEAMDATA ran out of global pages:

```
%SYSTEM-F-......, insufficient GBLPAGES
```

This indicates that subsequent software installations have caused TEAMDATA to run out of global pages. To fix this problem, use AUTOGEN to increase the value of GBLPAGES as appropriate. The same problem can occur because of an insufficient GBLSECTIONS or GBLPAGFIL parameter.

Note *On a system that was rebooted recently and where TDA$STARTUP.COM was used, you should see at least 10 free GBLSECTIONS and 800 free GBLPAGES, if there are no users currently using TEAMDATA. If you have these quotas, and some users still cannot start TEAMDATA, increase the value of GBLPAGFIL by 500.*

4.3 Reporting Problems to Digital

Make sure you know your access number before you call the Customer Support Center (CSC). Use the access number to identify yourself when you call. Treat the access number and the telephone numbers of the CSC confidentially. You should designate CSC contact people in your organization, and only these people should know the CSC access numbers.

The contact people you designate may speak directly with a CSC team specialist. The CSC will call the contact people directly to deliver a solution, request more information, or confirm a solution previously delivered.

The CSC will be able to respond faster and more accurately if you have complete information available when you call. Preparing a statement of the problem and thinking through the sequence of events that led to its occurrence can eliminate the need for calls from the CSC to gather more information. The

specialist can focus immediately on isolating and analyzing the problem, rather than on defining it.

The following list of questions helps you collect supporting data that is often overlooked, but is essential to understanding a problem in its context. Try to write down an answer to each question and have the list of answers ready when you call the CSC.

1. What versions of the software are you running (VMS operating system, prerequisite or optional software)? Are these the most current versions available?
2. In what environment or under what conditions does the problem occur (for example, interactive, network, loaded or single user system)?
3. Have any changes occurred with the software or its usage that might correlate with the incidence of the problem, such as:
   - Installing new prerequisite or optional software
   - Upgrading existing software
4. Can you reproduce the problem with a short example? This will help the CSC team specialist in reproducing the problem.

5

Installing TEAMDATA in ALL-IN-1 Menus

This chapter describes how to install TEAMDATA in an ALL-IN-1 menu, including:

1. Copying the TEAMDATA command files to OA$LIB:
2. Linking TEAMDATA to the ALL-IN-1 menu
3. Recompiling and relinking the forms library

The rest of this chapter illustrates in detail one method of incorporating TEAMDATA into an ALL-IN-1 submenu. This chapter assumes that you want to include TEAMDATA in the Information Management submenu for all the ALL-IN-1 users on your system.

Note *Because ALL-IN-1 provides many ways to customize your installation, your own configuration may be different from the one assumed here. If your installation is substantially different, you may need to contact your Digital Software Services representative for assistance.*

5.1 Copying the TEAMDATA Command Files

Follow these steps to copy the TEAMDATA command files:

1. Make sure that your process has the following privileges:

   ```
   SYSPRV
   PRMGBL
   SYSGBL
   ```

   Your process also needs sufficient privileges to write to the ALL-IN-1 forms library, OA$LIB:OAFORM.FLB.

   During this installation, you must recompile the forms library. To do this, you need approximately 2500 free blocks on the disk containing OA$LIB. Check now to make sure this space is available.

2 Copy the TEAMDATA command files to OA$LIB, and give OA$LIB:TDAA1.COM WORLD:READ protection. Use the following command to do so:

```
$ COPY/PROT=W:R TEAM$LIBRARY:TDAA1.COM,TDAWPSXAL.COM OA$LIB:*
```

Note that, in V1.0 of TEAMDATA, the ALL-IN-1 files were stored in SYS$UPDATE:TDAA1.COM.

5.2 Linking TEAMDATA to the ALL-IN-1 Menu

Follow these steps to link TEAMDATA to the ALL-IN-1 menu:

1 Run ALL-IN-1 from the ALL-IN-1 account on your system.

2 At the ALL-IN-1 Main Menu, enter:

```
FD
```

This choice indicates that you want to work on Forms Development. Note that this choice does not appear on the main menu.

3 At the Forms Development menu, enter:

```
SEL
```

4 Under Select Current Items, enter:

```
Library:  OA$LIB:OAFORM.FLB
```

```
Form:  IM
```

OAFORM.FLB is the forms library that contains forms for submenus. IM indicates the Information Management submenu.

5 Enter E to edit the form description.

6 Under Edit a Form Description, enter S (Screen Image).

7 When the main screen for forms editing appears:

- Choose LAYOUT. When you make this choice, ALL-IN-1 runs the FMS forms editor to let you edit the screen display of the form. Press HELP (PF2) for help.
- Add the following to the list of menu choices on this menu:

```
TD   TEAMDATA
```

- When you are finished, press Gold-Keypad 7 to return to the main menu of the forms editor.

8 Enter DATA in the Phase Choice field.

9 Press TAB to move to the entry labeled NAME and enter:

```
TD
```

10 Press TAB to move to the next line and enter:

```
COMMAND OA$LIB:TDAA1.COM\CLEAR FORM
```

Be sure to use the backslash character (\). CLEAR FORM displays the original form when TEAMDATA exits and returns control to ALL-IN-1.

11 Press Gold-Keypad 7 to exit from the forms editor and return to the menu.

12 Exit from the menu by entering EX.

13 Choose Y to save the form and exit. If you have successfully modified the Information Management form in OA$LIB:OAFORM.FLB, ALL-IN-1 displays the following message:

```
FORM IM   updated in OA$LIB:OAFORM.FLB library
```

If you do not see this success message, the form has not been modified. Check to make sure you have the required privileges and repeat the previous steps.

14 After you have modified the forms library, press RETURN to return to the Forms Development menu. At this time, you will receive the following message:

```
Obsolete version of OAFORM.FLB - Continuing
```

Disregard this message. When you recompile the forms library, the version will be updated and this message will no longer appear.

5.3 Recompiling the Forms Library

Follow these steps to recompile the forms library:

1 To recompile the library, you need approximately 2500 free blocks on the disk containing OA$LIB. Begin by entering:

```
PCF
```

This operation takes a few minutes. If you need more information about it, see the *ALL-IN-1 System Manager's Guide*.

2 Remove and reinstall the newly compiled forms library:

```
<OA$FBTREMOVELIBRARY OA$LIB:OAFORM
<OA$FBTINSTALLLIBRARY OA$LIB:OAFORM
```

The result is a compiled forms library, OA$LIB:OAFORM.FLC.

3 Exit from ALL-IN-1.

4 Make sure that this library has WORLD:READ protection:

```
$ DIRECTORY/PROTECTION OA$LIB:OAFORM.FLC

Directory DISK2$:[ALLIN1.LIBRARY]

OAFORM.FLC;19      (RWED,RE,RE,R)
OAFORM.FLC;18      (RWED,RE,RE,R)

Total of 2 files.
```

5.4 Running TEAMDATA from the ALL-IN-1 Menu

Follow these steps to run TEAMDATA from the ALL-IN-1 menu:

1 Choose IM (or the choice under which you have installed TEAMDATA) from the ALL-IN-1 menu.

2 Select TD to run TEAMDATA. You are now in the TEAMDATA environment. The only differences between using TEAMDATA through ALL-IN-1 and using TEAMDATA from DCL are:

- You use Gold-I to take you to the ALL-IN-1 Interrupt Menu instead of your current folder.
- You can press either keypad 0 (KP0) or the EXIT function key (F10) to return to TEAMDATA from ALL-IN-1.
- You can use the A1_SCRATCH_PAD option to write reports and graphs to the ALL-IN-1 Scratch Pad.

3 Use the EXIT SYSTEM command to exit from TEAMDATA and return to the ALL-IN-1 menu.

4 Enter EX to exit from ALL-IN-1.

A

TEAMDATA Files

Table A–1 lists the files that are transferred to your system when you install TEAMDATA. The files are organized by directory. Table A–1 lists the file name, a brief description, and the approximate file size in blocks for each file.

Table A–1 TEAMDATA Files

File	Description	Size (Blocks)
In SYS$HELP:		
RPC$SWLUP.HLB	System interconnect	18
TDA$014.RELEASE_NOTES	Release notes	117
TDA$HELP.HLB	Main help library	1484
TDA$TRAIN.HLB	Training library	247
In SYS$STARTUP:		
TDA$STARTUP.COM	Startup command file	7
In SYS$MANAGER:		
RPC$STARTUP.COM	System interconnect	6
TDA$SHUTDOWN.COM	Shutdown command file	4

(continued on next page)

Table A–1 (Cont.) TEAMDATA Files

File	Description	Size (Blocks)
In SYS$MESSAGE:		
RPC$MSG.EXE	System interconnect	31
RPC$SWLMSG.EXE	System interconnect	40
TDA$MSGSHR.EXE	Message shareable image	104
In SYS$SHARE:		
RPC$SHR.EXE	System interconnect	255
TDA$GRFSHR.EXE	Graph shareable image	279
TDA$MENSHR.EXE	Menu definitions	570
TDA$PRVSHR.EXE	Terminal control	6
TDA$SHR.EXE	Main shareable image	480
TDA$SRVDTE.EXE	Table server	916
TDA$SRVFTE.EXE	Spreadsheet server	852
TDA$SRVRGA.EXE	RALLY server	287
In SYS$SYSTEM:		
RPC$SWLPROC.EXE	System interconnect	17
RPC$SWLUP.EXE	System interconnect	122
TEAMDATA.EXE	Main TEAMDATA image	1733
In SYS$TEST:		
TDA$IVP.COM	Installation Verification Procedure	8
TDA$IVP.DIR	IVP files directory	1

(continued on next page)

Table A–1 (Cont.) TEAMDATA Files

File	Description	Size (Blocks)
In SYS$COMMON:(SYSTEST.TDA$IVP):		
TDA$IVP_FOLDER.TDA	IVP test file	1
TDA$IVP_PROFILE.DAT	IVP test file	1
TDA$IVP_SHEET.REP	IVP test file	2
TDA$IVP_SHEET.TDA	IVP test file	1
TDA$IVP_TABLE.REP	IVP test file	25
TDA$IVP_TABLE.TDA	IVP test file	1

(continued on next page)

Table A–1 (Cont.) TEAMDATA Files

File	Description	Size (Blocks)
In TEAM$LIBRARY:		
TDAA1.COM	ALL-IN-1 control	6
TDACREDB.COM	Create new user database	5
TDADCL.COM	DCL subprocess control	10
TDADEFDB.RBR	Default database	30
TDADEFDB.RDB	Default database	1084
TDADEFDB.SNP	Default database	202
TDASAMPLE.RBR	Sample database	194
TDASAMPLE.RDB	Sample database	1528
TDASAMPLE.SNP	Sample database	202
TDASYSDB.RDB	Public folder database	1084
TDASYSDB.SNP	Public folder database	202
TDASYSDB_NEW.RBR	Public folder database (ori.)	46
TDATSKCTL.COM	DCL subprocess control	5
TDAWPSXAL.COM	WPS+ XAL control	13
TDA_CLUST.GRG	Graph control file	2
TDA_HISTO.GRG	Graph control file	2
TDA_LINE.GRG	Graph control file	2
TDA_PAL1.GRP	Graph pallette file	1
TDA_PAL10.GRP	Graph pallette file	1
TDA_PAL11.GRP	Graph pallette file	1

(continued on next page)

Table A–1 (Cont.) TEAMDATA Files

File	Description	Size (Blocks)
In TEAM$LIBRARY:		
TDA_PAL12.GRP	Graph pallette file	1
TDA_PAL2.GRP	Graph pallette file	1
TDA_PAL3.GRP	Graph pallette file	1
TDA_PAL4.GRP	Graph pallette file	1
TDA_PAL5.GRP	Graph pallette file	1
TDA_PAL6.GRP	Graph pallette file	1
TDA_PAL7.GRP	Graph pallette file	1
TDA_PAL8.GRP	Graph pallette file	1
TDA_PAL9.GRP	Graph pallette file	1
TDA_PIE.GRG	Graph control file	2
TDA_SCAT.GRG	Graph control file	2
TDA_SHOW_PROC.TDA	Show procedures UDP	1
TDA_STACK.GRG	Graph control file	2

B

Sample TEAMDATA Installation

This appendix shows a typical new installation of TEAMDATA on a VMS Version 5.3 system. If you are upgrading from a previous version of TEAMDATA, your own installation may differ slightly from this example. See Chapter 2 for information specific to upgrading TEAMDATA.

```
Username:  SYSTEM Return
Password:         Return

        Welcome to VAX/VMS version V5.3 on node MYNODE

    Last interactive login on Thursday,  04-JAN-1990 08:32
    Last non-interactive login on Wednesday, 03-JAN-1990 12:32

 $  REPLY/USER "Installation starting in 5 minutes. Please log out." Return
 $  SET LOGINS/INTERACTIVE=0 Return
 $  @SYS$UPDATE:VMSINSTAL TDA014 MUA0: OPTIONS N Return

 VAX/VMS Software Product Installation Procedure V5.3

It is 05-JAN-1990 at 09:55.

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, TDA014 mounted on _MUA0:

The following products will be processed:
   TDA V1.4

 Beginning installation of TDA V1.4 at 10:00

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

    Release Notes Options:
```

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

* Select option [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.

    ****************************************************************
    *                                                              *
    *                   TEAMDATA version: V1.4                     *
    *                                                              *
    *                   Installation Procedure                     *
    *                       on Node: MYNODE                        *
    *                 on 05-JAN-1990 10:02:24.71                   *
    *                                                              *
    *     Copyright (c) 1990 by Digital Equipment Corporation      *
    *                                                              *
    ****************************************************************

        Product:      TEAMDATA
        Producer:     DEC
        Version:      1.4
        Release Date: 26-APR-1990

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

    ********************************************************************
    *                                                                  *
    *   Please wait while the system environment is checked out.       *
    *                                                                  *
    ********************************************************************

    ********************************************************************
    *                                                                  *
    *   TEAMDATA creates a directory to put product specific files in. *
    *      The logical TEAM$LIBRARY will point to this directory.      *
    *      These files amount to about 4600 disk blocks.               *
    *      The default is recommended.                                 *
    *                                                                  *
    ********************************************************************

* Where should the TEAMDATA directory go [SYS$COMMON:[TEAMDATA]]:  Return

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

```
    ****************************************************************
    *                                                              *
    *   SYSTEM MANAGER:                                            *
    *                                                              *
    *   Add to the system startup file: SYS$MANAGER:SYSTARTUP_V5.COM:   *
    *                                                              *
    *            $ @SYS$STARTUP:TDA$STARTUP.COM                    *
    *                                                              *
    *    (For clusters, add this to the startup for each node)     *
    *                                                              *
    ****************************************************************

    ****************************************************************
    *                                                              *
    *   You've answered ALL the questions for the installation.    *
    *                                                              *
    *   The installation takes 30 to 45 more minutes to complete.  *
    *                                                              *
    ****************************************************************

%VMSINSTAL-I-RESTORE, Restoring product save set  B...
%VMSINSTAL-I-RESTORE, Restoring product save set  C...
%VMSINSTAL-I-RESTORE, Restoring product save set  D...
%VMSINSTAL-I-RESTORE, Restoring product save set  E...

    ****************************************************************
    *                                                              *
    *   Installing Sample Database...                              *
    *                                                              *
    ****************************************************************
    *                                                              *
    *   Installing Default User Database...                        *
    *                                                              *
    ****************************************************************
    *                                                              *
    *   Installing Public Folder Database...                       *
    *                                                              *
    ****************************************************************

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.TDA$IVP].
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
VAX TEAMDATA: Installing TEAMDATA images
VAX TEAMDATA: Starting System Interconnect

**** Executing IVP for: VAX TEAMDATA V1.4

        **** Running Folder Test

        **** Folder Test Succeeded

        **** Running Table Test

        **** Table Test Succeeded

        **** Running Spreadsheet Test
```

```
        **** Spreadsheet Test Succeeded

        ******************************
        VAX TEAMDATA V1.4
        IVP COMPLETED SUCCESSFULLY
        ******************************
**** IVP completed for: VAX TEAMDATA V1.4

 Installation of TDA V1.4 completed at 10:50

 VMSINSTAL procedure done at 10:51
$ SET LOGINS/INTERACTIVE=64
$ REPLY/USER "Installation complete. System is ready for use."
```

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