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THE MONITOR® FOR MVS

...a component of the PerformanceWorks for MVS and OS/390 solution suite
Features include the NaviGate® communications interface

System Administrator's Guide

Version 2.0

LANDMARK®

The Monitor for MVS Version 2.0 – a component of the *PerformanceWorks* for MVS and OS/390 solution suite. Features include the NaviGate communications interface.

System Administrator's Guide

This manual applies to **The Monitor** for MVS (TMON for MVS), a proprietary software product of Landmark Systems Corporation. In North America, Landmark markets and supports TMON for MVS. Internationally, TMON for MVS is marketed and supported by a network of software marketing firms.

The information contained herein is subject to change. Address comments to:

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For definitive information with respect to CICS data areas (including control blocks), you should refer to the appropriate IBM publication as identified in the *CICS Library Guide (GC33-0356)*.

Contents

Using this Guide

***The Monitor** for MVS System Administrator's Guide* includes information on the TMON for MVS installation verification procedure as well as support and maintenance procedures. It also includes information on security, the TMON for MVS Performance Database, NaviGate, and the distributed sample library.

The audience for this guide includes both technicians and managers in systems, programming, capacity planning, operations, and security. A basic understanding of MVS is assumed.

This section provides an overview of the guide, the conventions used to document product use, and a list of related documentation. It also describes how to submit comments to Landmark.

Organization of this Guide

This guide is organized into the following chapters and appendix.

Chapter 1: Installation Verification Procedure
Provides a detailed TMON for MVS installation verification procedure to help ensure all installation steps, documented in *PerformanceWorks for MVS and OS/390 Installation Guide*, are successfully completed.

Chapter 2: Security Definitions
Provides information on using Landmark's security facilities to secure TMON for MVS functions.

Chapter 3: Landmark Product Communication
Explains how to use Landmark product communication to define a network between products and monitor address spaces anywhere in the network.

Chapter 4: Support and Maintenance
Describes the procedures, including standard maintenance, that help Customer Services efficiently assist you with TMON for MVS. Please read this chapter before contacting Customer Services or your international representative.

Appendix: TMON for MVS Sample Library
Describes the members of the TMON for MVS sample library.

Notational Conventions

The following notational conventions are used in this guide.

Notation	Description
b̸	A b with a slash through it indicates a blank.
...	An ellipsis indicates that the previous parameter or command can be repeated.

Notation	Description
’ = , ( ) + - * /	These special characters punctuate commands and command options. The characters must be entered exactly as shown.
{ }	Braces surround required command parameters.
[ ]	Brackets surround command options.
|	Vertical bars separate command options. Choose one option from the list.
➥	An arrow identifies a cursor-selectable field or line.
🧭	A compass identifies a field that has a built-in connection to another Landmark MVS product in the same processor complex. If the other product is active and defined to your system, cursor-select the field to pass-through to it.
DD	When used in a display format, “DD” indicates the day in a date, from “01” through “31”.
hh	When used in a display format, “hh” indicates hundredths of a second.
HH	When used in a display format, “HH” indicates the hour of a day, from “00” through “23”.
lowercase	Lowercase characters in command format show information you must supply.
Mixed Case	Mixed-case characters in command format show abbreviations for commands. Only the uppercase letters must be entered.
MM	When used in a display format, “MM” indicates minutes or months. If used in a time field, it represents the minutes of the hour, from “01” through “59”. If used in a date field, it represents the month in the year, from “01” through “12”.
n	When used in a display format, “n” indicates an integer. The number of n’s displayed represents the number of digits in the integer.
SS	When used in a display format, “SS” indicates the seconds of a time field, from “00” through “59”.
t	When used in a display format, “t” indicates tenths, thousandths, or ten thousandths of a second.
YY	When used in a display format, “YY” indicates the year.
<u>underlined text</u>	Default values are underlined.
UPPERCASE	Uppercase characters identify commands or control statements. These characters must be entered exactly as shown.

Related Documentation

To order additional copies of TMON for MVS documentation, see the order form in ***The Monitor*** *for MVS Release Guide.*

The *PerformanceWorks for MVS and OS/390 Online Documentation Library* CD-ROM provides all the TMON for MVS documentation in BookManager READ and Adobe Acrobat Reader formats. It also provides a copy of Adobe Acrobat Reader.

In addition to this guide, the TMON for MVS documentation library includes:

- ***The Monitor** for MVS Release Guide*, which familiarizes TMON for MVS users with the features in the product.
- *PerformanceWorks for MVS and OS/390 Installation Guide*, which includes everything you need to know to install *PerformanceWorks* for MVS and OS/390. It describes the installation procedures designed to enable you to get *PerformanceWorks* up and running as quickly and smoothly as possible. It also addresses a number of the facilities and special interfaces available to you with the installation of *PerformanceWorks*.
- ***The Monitor** for MVS Reference Manual*, which provides an overview of TMON for MVS as well as complete information for online product use.
- ***The Monitor** for MVS Report Writer*, which contains two sections:
  - *Report Writer Reference Manual* provides an overview of Report Writer capabilities and general usage guidelines that apply to all Landmark performance monitors. Report Writer JCL and control statements also are provided in this section.
  - ***The Monitor** for MVS Report Writer Supplement* provides product-specific information, such as data elements, sample reports, and explanations of product databases and record types.

  The appendixes contain Report Writer messages and codes as well as tips for using the Report Writer.
- ***The Monitor** for MVS Messages and Codes*, which includes error messages and abnormal termination codes for all TMON for MVS batch and online processing.
- *Landmark File Services User's Guide*, which describes all LFS components, functions, and commands. It also includes a product appendix describing the LFS file structure and SAMPLIB members supplied when you install TMON for MVS.
- *Electronic Customer Service System User's Guide*, which describes Landmark's Electronic Customer Service system (ECS) that you can use to access product maintenance 24 hours a day. It describes hardware and software requirements, registration procedures, and how to access ECS through the Internet and Telnet. It also tells you how to access information in a product conference and download that information from ECS. Instructions for uploading information to Landmark Customer Services using a file transfer protocol also are provided.

Comments

If you find an error or have any suggestions on how this publication can better meet your needs, either send an e-mail to Customer Services at `its@landmark.com` or call them at 1-800-775-LMRK (5675). When reporting a documentation error, include the name of the publication, chapter number, section name, and a detailed description of the error.

Chapter 1: Installation Verification Procedure

After you have successfully installed TMON for MVS, as described in *PerformanceWorks for MVS and OS/390 Installation Guide,* follow the installation verification procedure (IVP) documented in this chapter to ensure the base TMON for MVS product is properly installed and functioning in your environment.

IVP Checklist

The following checklist indicates the TMON for MVS components you will verify during the IVP. Call Customer Services or your international representative if you have any problems.

□ **1.** Verify the System Selection Menu.

□ **2.** Verify the Activity Monitor.

□ **3.** Verify the Exception Monitor.

□ **4.** Verify the Graphic Monitor.

□ **5.** Verify Collection Analysis.

□ **6.** Verify Supertrace.

□ **7.** Verify Utilities.

□ **8.** Verify the Delay Monitor.

□ **9.** Verify Remote Sessions.

□ **10.** Verify the TMON for CICS NaviGate connection.

□ **11.** Verify the TMON for DB2 NaviGate connection.

IVP Steps

This section includes step-by-step instructions to execute the IVP. Complete the steps in the order they appear. These steps can be run during one TMON for MVS session.

1. Verify the System Selection Menu.

The System Selection Menu is the first screen displayed after you log onto TMON for MVS and enter your user ID and password.

a. Cursor-select a TMON for MVS system to display the Primary Menu.

b. To choose an option from the Primary Menu, complete one of the following steps.

- ◊ Enter the option number in the SELECTION field.
- ◊ Cursor-select the option number.
- ◊ Enter =*n*, where “n” is the option number.

2. Verify the Activity Monitor.

a. Select Option 1, Activity Monitor, from the Primary Menu to display the Activity Monitor Menu.

b. Select Option 1, System Activity, to display the System Activity Monitor Menu.

c. Select Option 1, CPU Activity Display, to display the CPU Activity Display screen. It presents statistics describing the mix of work and I/O activity currently executing. The execution status of the workload on the system and performance statistics for each processor in the physical configuration are also displayed.

d. Press END or the PF3 key to return to the System Activity Monitor Menu.

e. Select Option 8, Expanded Storage Activity, to display the Expanded Storage Activity screen. Press ENTER to display statistics. This screen shows how your expanded storage is being used. It measures both allocation and activity to and from expanded storage.

f. Press END or the PF3 key twice to return to the Activity Monitor Menu.

g. Select Option 2, Workload Monitor, to display the Workload Monitor Menu.

h. Select Option 1, Workload Service Activity, to display the Workload Service Activity screen. It provides an overview of resource consumption and response time information for each workload defined to TMON for MVS.

i. Press END or the PF3 key twice to return to the Activity Monitor Menu.

j. Select Option 3, Job Execution Monitor, to display the Job Execution Monitor screen. It displays systemwide statistics, the current status, and resource use of all jobs shown.

k. Cursor-select a job name to display the Job Detail Selection Menu.

l. Press END or the PF3 key twice to return to the Activity Monitor Menu.

m. Select Option 4, Virtual Storage Monitor, to display the Virtual Storage Monitor Menu.

n. Select Option 4, Common Storage Monitor, to display the Common Storage Monitor Menu.

o. Select Option 5, Common Storage Summary, to display the Common Storage Summary screen. It shows information about the allocation and use of common storage areas.

p. Press END or the PF3 key three times to return to the Activity Monitor Menu.

q. Select Option 5, Performance Parameters, to display the Performance Parameters Menu.

r. Select Option 2, Logical Swap Constants, to display the Logical Swap Constants screen. It shows the thresholds and measurements that SRM uses to control logical swapping.

s. Press END or the PF3 key twice to return to the Activity Monitor Menu.

t. Select Option 6, I/O Monitor, to display the I/O Monitor Menu.

u. Select Option 4, LCU Activity Monitor, to display the LCU Activity Monitor screen. It provides an overall view of I/O activity on your system by LCU.

v. Enter *MAINMENU* or = on the command line to return to the Primary Menu.

3. **Verify the Exception Monitor.**

a. Select Option 2, Exception Monitor, from the Primary Menu to display the Exception Monitor Menu.

b. Select Option 5, Threshold Recommendation Utility, to display the Threshold Recommendation Utility screen. You can use this screen to analyze your site's performance data to determine suggested threshold values that correspond to the percentiles you specified for each exception severity level.

c. Enter *MAINMENU* or = on the command line to return to the Primary Menu.

4. **Verify the Graphic Monitor.**

a. Select Option 3, Graphic Monitor, from the Primary Menu to display the Graphic Monitor screen. It provides a snapshot of the activity on your system.

b. Cursor-select the CPU BUSY field to display the CPU Activity Display screen.

c. Enter *MAINMENU* or = on the command line to return to the Primary Menu.

5. **Verify Collection Analysis**.

a. Select Option 4, Collection Analysis, from the Primary Menu to display the Collection Analysis Graphic Review screen. It shows resource consumption and TSO first period response time.

b. Cursor-select the CPU BUSY field to display the CPU History Activity Menu.

c. Enter *MAINMENU* or = on the command line to return to the Primary Menu.

6. **Verify Supertrace.**

a. Select Option 5, Supertrace, from the Primary Menu to display the Supertrace Menu.

b. Select Option 4, System Memory Profile, to display the System Memory Profile screen. It shows information on storage usage by address space during the last interval.

c. Enter *MAINMENU* or = on the command line to return to the Primary Menu.

7. **Verify Utilities.**

a. Select Option 6, Utilities, from the Primary Menu to display the Utilities Menu.

b. Select Option 1, Systems Services, to display the Systems Services Menu.

c. Select Option 1, APF Utility, to display the APF Utility screen. It shows the data set name and volume serial number of every currently authorized library in the APF list.

d. Enter *MAINMENU* or = on the command line to return to the Primary Menu.

8. **Verify the Delay Monitor.**

a. Select Option 7, Delay Monitor, from the Primary Menu to display the Delay Monitor Menu.

b. Select Option 1, Delay Analysis Summary, to display the Delay Analysis Summary screen. It shows a breakdown of delay activity by job.

c. Enter *MAINMENU* or = on the command line to return to the Primary Menu.

9. **Verify Remote Sessions.**

a. Select Option S, System Administration, from the Primary Menu to display the System Administration Menu.

b. Select Option 1, Remote Sessions, to display the Remote Sessions Directory screen. It lists all Landmark products defined in your network.

Review each entry. If no changes are required, skip Steps c and d.

c. If the VTAM definition shipped in the TMON for MVS .INSTLIB has been modified by your site, enter the prefix characters of VTAM SLU names in the SLU APPLID PREFIX field. (The shipped TMON for MVS default is

"TMV"). Your site-specified SLU APPLID PREFIX remains on the screen.

d. If the applids defining other Landmark *PerformanceWorks* MVS products have been modified at your site, select the appropriate line, overtype the applid, and cursor-select ADD. You will receive the following message.

```
LMRK00904I  RECORD WAS SUCCESSFULLY ADDED
```

If any other message is received, refer to ***The Monitor*** *for MVS Messages and Codes* to determine the reason for the message and the corrective action.

Repeat Step d for each entry that requires modification.

e. Enter *=A.1* on the command line to display the Remote Sessions Logon screen. You can use this screen to access an applid of another Landmark product.

f. Cursor-select any line that reflects a status of "ACTIVE". You should be transferred to the selected Landmark *PerformanceWorks* MVS product.

g. Press the PF3 key or enter *LOGOFF* on the command line to return to the TMON for MVS Remote Sessions Logon screen.

10. Verify the TMON for CICS NaviGate connection.

a. Enter *=1.3* on the command line to display the Job Execution Monitor screen.

b. Tab twice to position the cursor at the DISPLAY field, and enter *C*. The display of active tasks is reduced to show only CICS tasks.

c. Cursor-select any CICS task to display the Job Detail Selection Menu.

d. Select Option 11, NaviGate to CICS/DB2 Monitor, to display the TMON for CICS Primary Menu.

e. Select Option 4, MVS Contention Monitor, to display the MVS Contention Monitor Menu.

f. Select Option 1, Active Job Summary, to display the TMON for MVS Job Execution Monitor screen.

g. Press the PF3 key to display the TMON for CICS MVS Contention Monitor Menu.

h. Select Option 2, Detailed Analysis, to display the TMON for MVS Job Delay Analysis screen.

i. Press the PF3 key to display the TMON for CICS MVS Contention Monitor Menu.

j. Enter *=7* on the command line to display the TMON for CICS File/DB Analysis Menu.

k. Select Option 1, File / DB Activity, to display the TMON for CICS File / DB Activity Selection Menu.

l. Tab to the SUMMARIZE BY field, overtype the “1” with a “2” and press ENTER. The TMON for CICS File / DB Activity screen is displayed.

m. Cursor-select any active volume listed in the VOLSER column to display the Device Detail Selection Menu. The following message appears on the screen.

```
TMVS18879I - I/O PROFILE SUCCESSFULLY STARTED
```

Press ENTER.

Wait approximately two minutes before proceeding to the next step unless the following message appears on the screen.

```
TMVS09701I I/O PROFILE COMPLETED. TYPE =5.1 TO ACCESS PROFILE MENU
```

n. Enter =*5.1* on the command line to display the TMON for MVS Profile Status / Selection screen.

o. Cursor-select the completed I / O profile to display the I / O Profile screen.

p. Enter *KEEP* on the command line. The following message appears on the screen.

```
TMVS14002I - TRACE DATA IS NOW KEPT
```

q. Enter *MAINMENU* or = on the command line to display the TMON for MVS Primary Menu.

r. Enter *LOGOFF* on the command line and press ENTER to return to the TMON for CICS File / DB Activity Display screen.

s. Enter *LOGOFF* on the command line and press ENTER to return to the TMON for MVS Job Execution Monitor screen.

At this point, all connections to TMON for CICS should have been terminated automatically with the reverse-video name of the “current” monitor (bottom center of border) removed.

11. **Verify the TMON for DB2 NaviGate connection**.

a. Enter =*1.3* on the command line to display the Job Execution Monitor screen.

b. Tab twice to position the cursor at the DISPLAY field, and enter *D*. The display of active tasks is reduced to show only DB2 tasks.

c. Cursor-select any DB2 task to display the Job Detail Selection Menu.

d. Select Option 11, NaviGate to CICS / DB2 Monitor, to display the TMON for DB2 Primary Menu.

e. Select Option 4, Active Job Summary, to display the TMON for MVS Job Execution Monitor screen.

f. Press the PF3 key to display the TMON for MVS Primary Menu.

g. Press the PF3 key to display the TMON for DB2 Primary Menu.

h. Press the PF3 key to display the TMON for MVS Job Execution Monitor screen.

At this point, all connections to TMON for DB2 should have been terminated automatically with the reverse-video name of the “current” monitor (bottom center of border) removed.

i. Enter *LOGOFF* on the command line to log off of TMON for MVS.

Chapter 2: Security Definitions

You can secure access to your Landmark *PerformanceWorks* MVS product and its individual functions using three different methods: External Security, User Exit Security, and Internal Security. You also can choose not to secure product functions at all. Use the Security Definitions Menu to select the particular type of security you want.

External Security controls product usage through IBM's system authorization facility (SAF), which transfers control to security products such as RACF, CA-ACF2, and CA-TOP SECRET.

User Exit Security lets you create your own security system through user exits.

Internal Security controls product usage through screens described in this chapter. Please note that while Internal Security provides complete protection of all secured functions, it does not produce an audit trail. If your site requires an audit trail, use External Security to protect access to secured functions.

Landmark *PerformanceWorks* MVS products check security in the following two areas.

- *User logon security* controls the ability to log onto the product.
- *Function security* protects various product functions. Only specific functions of Landmark *PerformanceWorks* MVS products are secured, as defined on the Secured Functions Directory screen. A complete list of secured functions is provided later in this chapter.

Landmark *PerformanceWorks* MVS products support certain combinations of Internal, External, User Exit, and no security for user logon and function security. For example, you might use External Security to control user logon access and Internal Security to control access to functions. The following table identifies the valid security combinations.

User Logon Security Type	**Function Security Type**			
	Internal	**External**	**User Exit**	**None**
External	Yes	Yes	Yes	Yes
User Exit	Yes	No	Yes	Yes
Internal	Yes	No	Yes	Yes
None	No	No	No	Yes
Key: Yes = a valid combination No = an invalid combination				

Resolving accidental access problems caused by security

If, while defining your system security, you find you cannot access your system because of the security you have established, you must restore the primary control record (the C record) in the control file. Use the sample JCL provided in the appropriate member of your product sample library to do the restore. The following table identifies the sample library member you should use for each Landmark *PerformanceWorks* MVS product.

Member	**Sample Library**
TCECRS	TMON for CICS/ESA
TMON8CRS	TMON for CICS/MVS
TDBCRS	TMON for DB2
TDCCRS	TMON for DBCTL
TMQCRS	TMON for MQSeries
TMVRSTOR	TMON for MVS

How Product Security Works

This section describes how product security components interact. Figure 2-1 depicts the interaction of the security components.

Users are authorized to use product functions through access levels specified in *profiles*. Profiles explicitly assign an access (authorization) level for each secured function and supply values for any required primary resources.

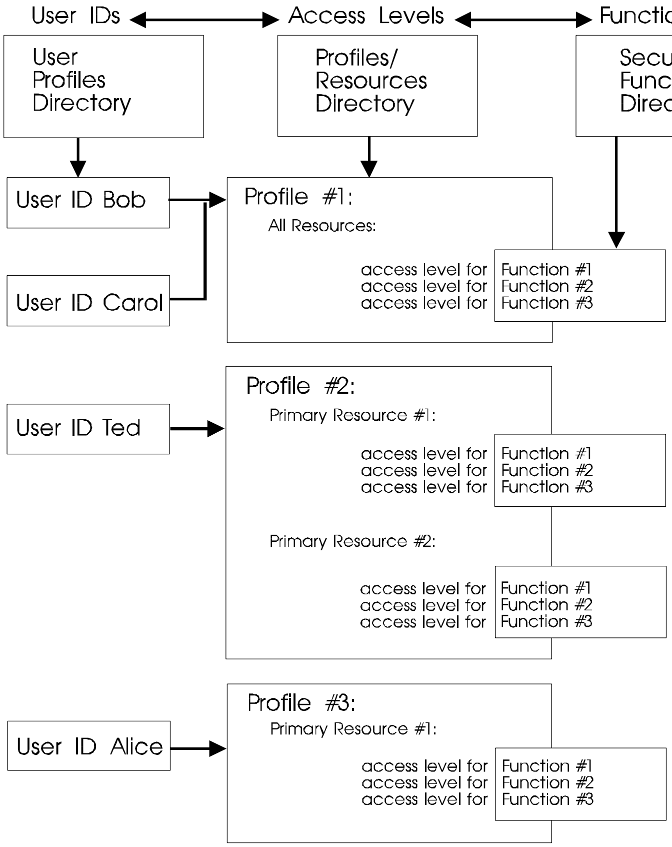

User IDs
Access Levels
Functions
User Profiles Directory
Profiles/ Resources Directory
Secured Functions Directory
User ID Bob
User ID Carol
Profile #1:
All Resources:
access level for Function #1
access level for Function #2
access level for Function #3
User ID Ted
Profile #2:
Primary Resource #1:
access level for Function #1
access level for Function #2
access level for Function #3
Primary Resource #2:
access level for Function #1
access level for Function #2
access level for Function #3
User ID Alice
Profile #3:
Primary Resource #1:
access level for Function #1
access level for Function #2
access level for Function #3

Figure 2-1. Security components

When a user tries to use a secured function, a security authorization call is made to verify that the user has the necessary security clearance. The following information is used in the security check:

- User ID
- Password (for a sign-on attempt only)
- Function ID
- Access, or authorization, level (NONE, READ, UPDT, CNTL, or ALTR) of the user ID for the function. Access levels are described in “Detail Profile Definition,” later in this chapter.

Some Landmark product functions require a primary resource or both a primary and a secondary resource. These functions are generically referred to as *resource functions*. Functions that do not require resources are called *system functions*.

- TMON for CICS primary resources are job names; secondary resources are not used.
- TMON for DB2 primary resources are DB2 subsystem names; secondary resources are DB2 plan names.
- TMON for DBCTL primary resources are DBCTL subsystem names; secondary resources are not used. (The primary resource needed to access a DBCTL subsystem is the DBCTL subsystem name; thereafter, it is the object name.)
- TMON for MQSeries primary resources are queue manager and object names; secondary resources are not used. (The primary resource needed to access a queue manager is the queue manager name; thereafter, it is the object name.)
- TMON for MVS primary resources are job names or volume serial numbers; secondary resources are not used.

Primary and secondary resources qualify the security authorization check. For functions specifying a primary resource, a security check is made for the function with the specific primary resource. (For TMON for DB2, if a secondary resource is specified, the security check is made for the function with both the primary and secondary resources.) The user is restricted to using the function only for the resource(s) specified.

TMON for CICS example

Suppose you want to restrict the job names displayed on the Job Selection List screen for a given user. In the following example, only jobs with job names starting with “DEV” and “TEST” are displayed on the Job Selection List screen for user ID SAMPLE.

User ID: SAMPLE

Password: Not needed for this security check

Function ID: JOBLIST

Access level: READ

Primary resource: DEV* and TEST*

Secondary resource: None

Tracing Security Problems

Regardless of which type of security you choose to implement (External, Internal, or User Exit), you may need to trace security processing and resolve a security problem. Landmark provides a trace facility for Landmark security processing. To start the security trace during product initialization, add the TRACE=SECURITY parameter to the appropriate data set specified in your startup JCL, which is identified by the following ddnames:

- TMONPRMS (for TMON for CICS/ESA and TMON for CICS/MVS)
- TMDBPRMS (for TMON for DB2)
- TDBCPRMS (for TMON for DBCTL)
- TMQSPRMS (for TMON for MQSeries)
- TMVSPRMS (for TMON for MVS)

Adding this parameter activates a security trace for Internal Security for the product. Each time a security check is made, the check is traced. Read about the data set in your product installation completion instructions in *PerformanceWorks for MVS and OS/390 Installation Guide.*

To activate the trace facility when the product is already executing, enter *$TRACEON* on the command line. To deactivate the trace facility once you have started it, enter *$TRACEOFF* on the command line.

Using External Security

External Security links to and uses security definitions specified by external security products that use IBM's system authorization facility (SAF), such as RACF, CA-ACF2, and CA-TOP SECRET. This discussion of External Security provides general instructions for defining RACF security for your Landmark *PerformanceWorks* MVS product. CA-ACF2 instructions are given in member ACF2DOC in the Strategic Services sample library. CA-TOP SECRET instructions are given in member TSDOC in the Strategic Services sample library. If you do not have RACF, CA-ACF2, or CA-TOP SECRET installed, you must set up corresponding definitions using the security product you do have installed.

If you use External Security to control user logon access, you can use any of the security types (internal, external, user exit, or none) to control access to product functions. If, however, you choose to use External Security for access to product functions, you also must use External Security for logon access.

If you want to use External Security for logon and Internal or User Exit Security for functions, you can bypass the RACF, CA-TOP SECRET, and CA-ACF2 instructions we supply. Read "External Security Simplified Sign-On," later in this section.

Considerations when switching to External Security

If you switch from Internal Security for product functions to External Security without defining anything to your external security product, you will not be able to access your system. If this happens, you must restore the primary control record (the C record) in the control file. Use the sample JCL given in the appropriate member of your product sample library to do the restore. Refer to the table provided earlier in this chapter for the member you should use for your Landmark *PerformanceWorks* MVS product.

RACF Security

To define RACF security for your product's user logon and functions, complete the following steps. Refer to your RACF documentation for complete information on RACF processing.

1. **Add $LMRKTMR to the RACF class descriptor table.**

   Add the resource class, $LMRKTMR, to the RACF class descriptor table (CDT). Then reassemble the table (see member $RACFCDT in the Strategic Services sample library).

2. **Add $LMRKTMR to the RACF router table.**

   Add two entries for the $LMRKTMR resource class to the RACF router table, as shown in member $RACFRTB in the Strategic Services sample library. Then reassemble the table.

   To reduce the amount of time the product spends reading the RACF data set, we recommend you place the router table entries directly in the RACLIST.

3. **Activate $LMRKTMR in RACF.**

   Enter the following RACF command to activate the $LMRKTMR resource class in RACF.

   ```
   SETROPTS CLASSACT($LMRKTMR)
   ```

4. **Define your product user IDs to RACF.**

   If you have not already done so, define your product user IDs to RACF.

   Note When RACF passwords are changed, they immediately affect product security.

5. **Define a RACF general resource for product logon.**

   Use the following model to define a RACF general resource for user logon access:

```
applid.SIGNON UACC(NONE)
```

where “applid” is the product application ID defined during installation and “SIGNON” is the function name that controls user access and logon to the product. Review the function code table, later in this chapter, for more information about product functions. The default user access level should be NONE (no access to the product), as shown in the UACC parameter in the model. Logon access to the product is then controlled through RACF access lists.

6. **Define a RACF general resource for each product function.**

   To control access to the product functions, use the following model to define a RACF general resource for each product function:

   ```
   applid.function[.res1[.res2]] UACC(NONE)
   ```

   where “applid” is the product application ID defined during installation, “function” is the function name, “res1” is the primary resource specification (if any) for this security definition, “res2” is the secondary resource specification (if any) for this security definition, and the UACC parameter specifies the access level for the function. You can specify asterisks (*) as pattern matching characters for “res1” and “res2.” The default user access level should be NONE (no access to product functions), as shown in the UACC parameter in the model.

   You can find descriptions of all product functions, their applicable resources, and their valid access levels in the function code and the function access level tables, later in this chapter.

   You can find $RACFGDF, a supplied CLIST program, in the Strategic Services sample library. The CLIST creates a sample set of RACF general resource definitions for product functions and resources.

   Once general resources are defined for all product functions, access to them is controlled through RACF access lists.

7. **Activate External Security for user logon access and access to functions.**

   Enter *X* in both the USER LOGON and FACILITIES fields of the Security Definitions Menu.

With Internal Security for Functions

If you are using RACF to secure user logon access, you can use Internal Security or User Exit Security to control access to product functions. If you choose to do this, skip Steps 6 and 7 and perform the following steps instead. You also can use the External Security simplified sign-on feature described later in this section.

8. **Define Internal Security profiles for your site.**

   Use the supplied profiles or create your own. Read “Using Internal Security,” later in this chapter, for further information.

9. **Identify the profile that should be used by each product user ID.**

   You can use two methods to identify the profile that should be used for each user ID.

   a. For each product user ID defined to RACF, specify the following RACF installation data in RACF:

   ```
   LMRK(profile)
   ```

   where "profile" is the name of an Internal Security profile.

   b. Define each RACF-defined user ID to Internal Security using the Internal Security screens provided with your Landmark *PerformanceWorks* MVS product. Read "Using Internal Security," later in this chapter, for more information.

   If you do not identify a profile for a user ID, your Landmark *PerformanceWorks* MVS product uses the $DEFAULT profile, which is distributed with each product.

10. **Activate External Security for user logon access and Internal Security for access to functions.**

    Enter *X* in the USER LOGON field and an *I* in the FACILITIES field of the Security Definitions Menu. The following table indicates how to access this menu from within each Landmark *PerformanceWorks* MVS product.

Product	To Gain Access to Menu:
TMON for CICS/ESA	Enter *=10.1.7* on the command line of any TMON for CICS/ESA screen.
TMON for CICS/MVS	Enter *=10.1.9* on the command line of any TMON for CICS/MVS screen.
TMON for DB2	Enter *=8.1* on the command line of any TMON for DB2 screen.
TMON for DBCTL	Enter *=9.1* on the command line of any TMON for DBCTL screen.
TMON for MQSeries	Enter *=8.1* on the command line of any TMON for MQSeries screen.
TMON for MVS	Enter *=S.2* on the command line of any TMON for MVS screen.

External Security Simplified Sign-On

If you want to use External Security for user logon access to your Landmark *PerformanceWorks* MVS product, but use either Internal Security or User Exit Security to control user access to product functions, you can use the External Security simplified sign-on feature. This feature lets you skip most of the RACF, CA-ACF2, and CA-TOP SECRET instructions for setting up external user logon security.

Implementation

Perform these procedures only after you have consulted with the data center security personnel at your site. Complete the following steps to implement the External Security simplified sign-on feature.

1. **Ensure that IBM's system authorization facility (SAF) is active.**

   SAF always is active if you are using RACF, but you may need to perform a manual step to activate SAF with other software packages. For example, to activate SAF in CA-ACF2, the SAF bit needs to be turned on in the CA-ACF2 global system options.

2. **Define product user IDs to your external security product.**

   If you have not already done so, define product user IDs to your security product. Refer to the security product documentation for complete instructions.

3. **Verify the logon access level of the $DEFAULT profile.**

   If you want to restrict access to a Landmark product to certain user IDs, ensure that the Landmark-supplied $DEFAULT profile has an access setting of NONE for the SIGNON function. Read about product secured functions (including the SIGNON function) in the function code table, later in this chapter. When a user logs on, the system checks the user's profile to see if SIGNON access is defined. If it is, the logon attempt is successful. If no profile can be found for the user, the Internal Security $DEFAULT profile is used.

4. **Activate the External Security simplified sign-on feature for user logon access.**

   Enter *S* at the USER LOGON prompt on the Security Definitions Menu. Note that you cannot enter *S* at the FACILITIES prompt. The External Security simplified sign-on feature is valid only for control of user logon.

Once you have activated the simplified sign-on feature, all users already defined to your external security package with valid user IDs and passwords can log onto the product. If you want to allow only a subset of these users to log on, you can control user logon further using profiles and the SIGNON function (as described in Step 3).

Using User Exit Security

You can create your own security system through user exits. Member $USRXIT of the Strategic Services sample library contains a sample security user exit and sample JCL with which to assemble and link the exit.

To implement User Exit Security, follow these steps:

1. **Create the user exit.**

   Landmark *PerformanceWorks* MVS products point register 1 to storage containing the information mapped in member $USRPRMS of the Strategic Services sample library. Your user exit should pass a return code in register 15. If the return code is zero (0), access to the function is granted. If the return code is a nonzero number, access to the function is denied.

2. **Specify the program name of your user exit in the USEREXIT startup parameter.**

   This parameter can be included in a data set or member that is identified by the:

   - TMONPRMS DD statement in TMON for CICS/ESA and TMON for CICS/MVS startup JCL
   - TMDBPRMS DD statement in TMON for DB2 startup JCL
   - TDBCPRMS DD statement in TMON for DBCTL
   - TMQSPRMS DD statement in TMON for MQSeries startup JCL
   - TMVSPRMS DD statement in TMON for MVS startup JCL.

   TMON for DB2 example

   ```
   //TMDBPRMS DD *
   USEREXIT=name
   ```

   If you specify a USEREXIT program name that the product cannot find when it starts up, an S806 abend occurs.

3. **Stop and restart the product.**

   Shut down and restart the product.

4. **Activate User Exit Security.**

   Depending on whether you are using User Exit Security to control user logon access or access to functions, enter *U* in either the USER LOGON field or the FACILITIES field, or both. Check the user logon/function security type table at the beginning of this chapter to be sure you are using valid combinations of security types for these two fields. If no user exit program has been specified in the USEREXIT startup parameter, an error occurs indicating you have selected an invalid security combination.

Using Internal Security

You can use the Internal Security system supplied with your Landmark *PerformanceWorks* MVS product to secure user logon access and access to product functions. If you use Internal Security to secure logon access, you cannot use External Security to secure product functions. If you use Internal Security to secure access to functions, you must secure logon access. You can use any of the methods described in this chapter to secure logon access.

Internal Security is defined through the screens described in the rest of this chapter.

Do you require audit trails?

While Internal Security provides complete protection of all secured functions, it does not produce an audit trail. If your site requires an audit trail, use External Security to protect access to secured functions.

Supplied User IDs and Profiles

Internal Security is distributed with a predefined master user ID and password for each Landmark *PerformanceWorks* MVS product. The following table lists the master user ID and password provided for each product.

Product	User ID	Password
TMON for CICS/ESA	TMONCICS	TMONCICS
TMON for CICS/MVS	TMONCICS	TMONCICS
TMON for DB2	TMONDB2	TMONDB2
TMON for DBCTL	TMONDBC	TMONDBC
TMON for MQSeries	TMONMQ	TMONMQ
TMON for MVS	TMONMVS	TMONMVS

If you specify that user logon security should use Internal Security (by setting the USER LOGON field on the Security Definitions Menu to I), the master user ID can access product Internal Security screens.

Internal Security for each product also is distributed with a predefined set of generic authorization profiles and user IDs. Each of the profiles begins with the dollar sign character ($) and can be used as a template for definition of site-specific profiles.

Change the supplied passwords.

If you choose to use Internal Security, once you have installed the Landmark *PerformanceWorks* MVS product, change the password for the master user ID and these other product-supplied user IDs. When passwords are changed, they immediately affect product security.

TMON for CICS

The following table lists the supplied user IDs and profiles for TMON for CICS/ESA and TMON for CICS/MVS.

User ID	Profile ID	Description
APPROG	$DEFAULT	User ID and default profile ID for an applications programmer.
AUTOSTRT	$AUTOSTR	User ID and default profile ID for an automatically started terminal. Read “Chapter 13: Cross System Monitor Administration” in ***The Monitor** for CICS Reference Manual* for a description of Performance Monitor automatic starts. Do not modify this user ID and profile ID. If you do, Performance Monitor automatic starting will not work.
SYSADMN	$SYSADMN	User ID and default profile ID for a system administrator.
SYSPROG	$SYSPROG	User ID and default profile ID for a systems programmer.

User ID	Profile ID	Description
TMONCICS	$MASTER	Master user ID and default profile ID. This profile grants user ID TMONCICS the ability to do everything in TMON for CICS/ESA. Do not change or delete this user ID and profile. This ensures that you always can update your Internal Security definitions.

TMON for DB2

The following table lists the supplied user IDs and profiles for TMON for DB2.

User ID	Profile ID	Description
APPPROG	$DEFAULT	User ID and default profile ID for an applications programmer.
AUTOSTRT	$AUTOSTR	User ID and default profile ID for an automatically started terminal. Do not modify this user and profile ID. If you do, autostart capabilities are disabled.
DBADM	$DBADM	User ID and default profile ID for a database administrator.
SYSADM	$SYSADM	User ID and default profile ID for the TMON for DB2 system administrator.
SYSPROG	$SYSPROG	User ID and default profile ID for a DB2 systems programmer.
TMONDB2	$MASTER	Master user ID and default profile ID. This profile grants user ID TMONDB2 the ability to do everything in TMON for DB2. This ensures that you always can update your Internal Security definitions.

TMON for DBCTL

The following table lists the supplied user IDs and profiles for TMON for DBCTL.

User ID	Profile ID	Description
APPPROG	$DEFAULT	User ID and default profile ID for an applications programmer.
AUTOSTRT	$AUTOSTR	User ID and default profile ID for an automatically started terminal. Do not modify this user and profile ID. If you do, autostart capabilities are disabled.
DBADM	$DBADM	User ID and default profile ID for a database administrator.
SYSADM	$SYSADM	User ID and default profile ID for the TMON for DBCTL system administrator.
SYSPROG	$SYSPROG	User ID and default profile ID for a DBCTL systems programmer.
TMONDBC	$MASTER	Master user ID and default profile ID. This profile grants user ID TMONDBC the ability to do everything in TMON for DBCTL. This ensures that you always can update your Internal Security definitions.

TMON for MQSeries

The following table lists the supplied user IDs and profiles for TMON for MQSeries.

User ID	Profile ID	Description
APPPROG	$DEFAULT	User ID and default profile ID for an applications programmer.
MQADM	$MQADMIN	User ID and default profile ID for an MQSeries administrator.
SYSADM	$SYSADM	User ID and default profile ID for the TMON for MQSeries system administrator.
SYSPROG	$SYSPROG	User ID and default profile ID for an MQSeries systems programmer.
TMONMQ	$MASTER	Master user ID and default profile ID. This profile grants user ID TMONMQ the ability to do everything in TMON for MQSeries.

TMON for MVS

The following table lists the supplied user IDs and profiles for TMON for MVS.

User ID	Profile ID	Description
$DEFAULT	$DEFAULT	User ID and default profile ID for an applications programmer.
$SYSADMN	$SYSADMN	User ID and default profile ID for a system administrator.
$SYSPROG	$SYSPROG	User ID and default profile ID for a systems programmer.
$UPERMAN	$UPERMAN	Master user ID and default profile ID. This profile grants user ID $UPERMAN the ability to do everything in TMON for MVS. This ensures that you always can update your Internal Security definitions, do not change or delete this user and profile ID (except the user ID password).
$SECURITY	$SECURITY	User ID and default profile ID for the security administrator.
$DBADMIN	$DBADMIN	User ID and default profile ID for the TMON for MVS control file data administrator.

Implementing Internal Security

To activate Internal Security at your site, follow these steps:

1. **Define Internal Security profiles for your site.**

   Use the supplied profiles or create your own. Read “Profiles/Resources Directory” and “Detail Profile Definition,” later in this chapter, for further information on adding, updating, and deleting profiles.

2. **Define your product users to Internal Security.**

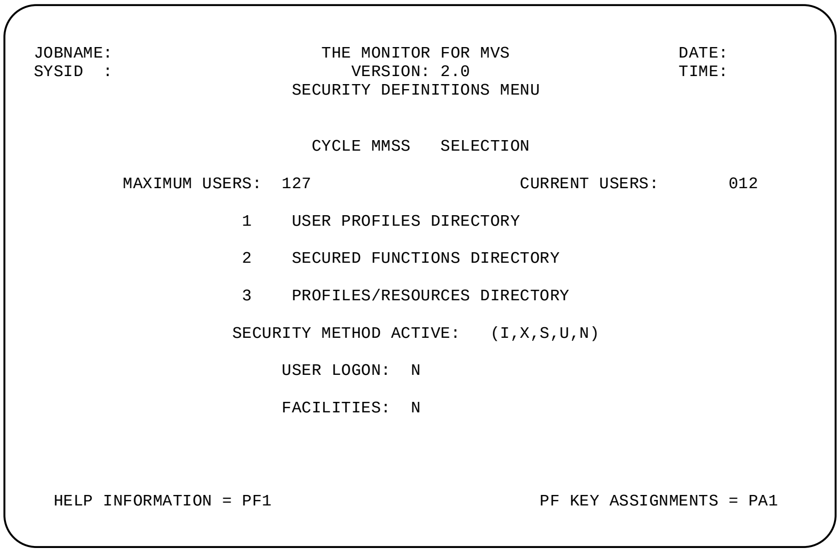
   Use the supplied user IDs or add your own. Read “User Profiles Directory” and “User Definition,” later in this chapter, for further information on adding, updating, and deleting user IDs.

3. **Activate Internal Security.**

   Depending on whether you are using Internal Security for user logon access or access to functions, enter *I* in either the USER LOGON or the FACILITIES fields (or both) of the Security Definitions Menu. Check the user logon / function security type table at the beginning of this chapter to be sure you are using valid combinations of security types for these two fields.

All the parameters on the Internal Security screens are stored in records in the product control file. To update the control file once you have modified the parameters on a screen, you must cursor-select the ADD, UPDATE, or DELETE field. Cursor-select the ADD field to add a record to the control file, the UPDATE field to update a record, and the DELETE field to delete a record. If you do not cursor-select one of these fields, *no modifications are made to the control file*. Read the description of each screen to fully determine how and when to use the ADD, UPDATE, and DELETE fields.

Security Definitions Menu



```
JOBNAME:                    THE MONITOR FOR MVS                DATE:
SYSID  :                        VERSION: 2.0                   TIME:
                            SECURITY DEFINITIONS MENU

                              CYCLE MMSS   SELECTION

         MAXIMUM USERS:  127                   CURRENT USERS:       012

                     1    USER PROFILES DIRECTORY

                     2    SECURED FUNCTIONS DIRECTORY

                     3    PROFILES/RESOURCES DIRECTORY

                   SECURITY METHOD ACTIVE:   (I,X,S,U,N)

                        USER LOGON:  N

                        FACILITIES:  N



  HELP INFORMATION = PF1                           PF KEY ASSIGNMENTS = PA1
```

The Security Definitions Menu lets you specify the type of security you want to use for logon access to your Landmark *PerformanceWorks* MVS product. You also can select product Internal Security services from this screen.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	Action	Displays
TMON for CICS/ESA	On the command line, enter *=10.1.7*.	Security Definitions Menu
TMON for CICS/MVS	On the command line, enter *=10.1.9*.	Security Definitions Menu
TMON for DB2	On the command line, enter *=8.1*.	Security Definitions Menu
TMON for DBCTL	On the command line, enter *=M.1*.	Security Definitions Menu
TMON for MQSeries	On the command line, enter *=8.1*.	Security Definitions Menu
TMON for MVS	On the command line, enter *=S.2*.	Security Definitions Menu

Options

1 USER PROFILES DIRECTORY
Displays all authorized user IDs for your product and their profile assignments. Use this option to add, change, or delete user definitions. These include user ID passwords and profile settings.

2 SECURED FUNCTIONS DIRECTORY
Displays the functions that are secured in your product.

3 PROFILES/RESOURCES DIRECTORY
Displays all currently defined Internal Security profiles and their qualifying resources for your product. Use this option to add, change, or delete profile definitions and their associated resources.

Fields

CURRENT USERS

Displays the current number of users of this product system.

FACILITIES

Specifies the security type used to protect product functions. Specify one of the options in the following table.

Value	Description
I	Specify *I* to use Internal Security. This is the default.
N	Specify *N* if you do not want product functions to be secured. No security checking is performed.
U	Specify *U* to use User Exit Security. To use this option, USEREXIT= also must be coded on the input parameters for the product.
X	Specify *X* to use External Security.

Note that you cannot specify *S* as an access method for function security. It only pertains to the USER LOGON field.

MAXIMUM USERS

Displays the maximum number of users that can access this product system at any given time. You can change this maximum using the MAXUSER command. Read Chapter 2 in your product reference manual for more information on this command.

SECURITY METHOD ACTIVE

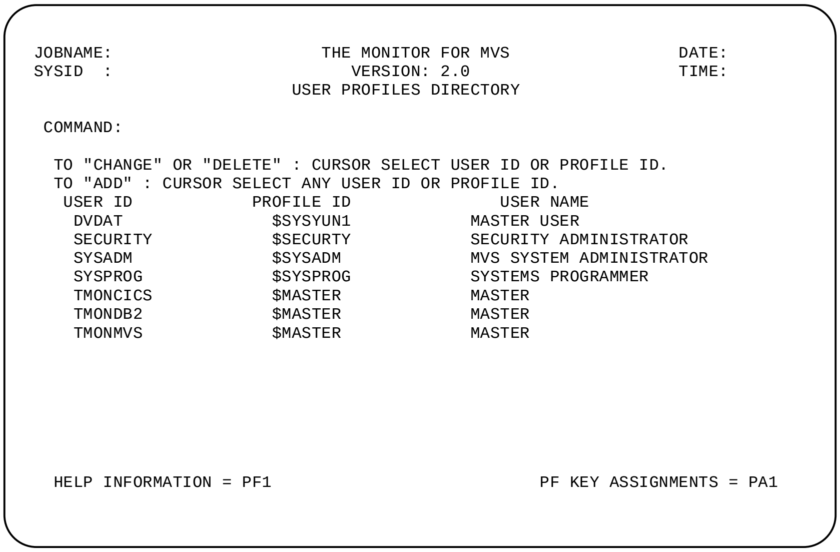
Lists the valid security types you can specify for product functions (in the FACILITIES field) and user logon access (in the USER LOGON field). "S" is valid only for the USER LOGON field. See the FACILITIES and USER LOGON fields for a description of each value, and check the user logon/function security type table at the beginning of this chapter for valid combinations of security types.

USER LOGON

Displays the security type used to verify user logon access to the product. Specify one of the options in the following table.

Value	Description
I	Specify *I* to use Internal Security. This is the default.
N	Specify *N* if you do not want user logon access to be secured. No security checking is performed.
S	Specify *S* if you want to use the External Security simplified sign-on feature.
U	Specify *U* to use User Exit Security. To use this option, USEREXIT= also must be coded on the input parameters for the product.
X	Specify *X* to use External Security.

User Profiles Directory



```
JOBNAME:                     THE MONITOR FOR MVS                 DATE:
SYSID  :                        VERSION: 2.0                     TIME:
                          USER PROFILES DIRECTORY

 COMMAND:

  TO "CHANGE" OR "DELETE" : CURSOR SELECT USER ID OR PROFILE ID.
  TO "ADD" : CURSOR SELECT ANY USER ID OR PROFILE ID.
   USER ID            PROFILE ID              USER NAME
    DVDAT               $SYSYUN1            MASTER USER
    SECURITY            $SECURTY            SECURITY ADMINISTRATOR
    SYSADM              $SYSADM             MVS SYSTEM ADMINISTRATOR
    SYSPROG             $SYSPROG            SYSTEMS PROGRAMMER
    TMONCICS            $MASTER             MASTER
    TMONDB2             $MASTER             MASTER
    TMONMVS             $MASTER             MASTER






  HELP INFORMATION = PF1                         PF KEY ASSIGNMENTS = PA1
```

The User Profiles Directory screen lists every current user ID defined to the Landmark *PerformanceWorks* MVS product and its associated Internal Security profile ID and user name.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	Action	Displays
TMON for CICS/ESA	On the command line, enter *=10.1.7.1*.	User Profiles Directory
TMON for CICS/MVS	On the command line, enter *=10.1.9.1*.	User Profiles Directory
TMON for DB2	On the command line, enter *=8.1.1*.	User Profiles Directory
TMON for DBCTL	On the command line, enter *=M.1.1*.	User Profiles Directory
TMON for MQSeries	On the command line, enter *=8.1.1*.	User Profiles Directory
TMON for MVS	On the command line, enter *=S.2.1*.	User Profiles Directory

Primary Commands

Use the DOWN and UP commands to scroll through this screen. To learn about the various ways to scroll using these commands and for syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

➥ **PROFILE ID**

Displays the 1- to 8-character profile identifier for the product currently assigned to the user ID.

Cursor-select this field to add, update, or delete a profile definition in the control file. Once you have cursor-selected a profile, the Profiles / Resources Directory screen is displayed.

➥ **USER ID**

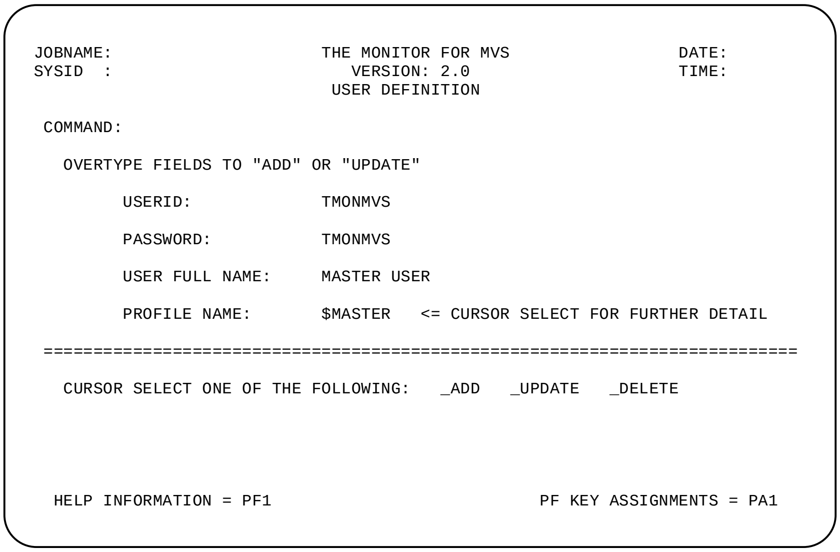
Displays the 1- to 8-character user ID for the product.

Cursor-select this field to add, update, or delete a user definition in the control file. Once you have cursor-selected a user ID, the User Definition screen is displayed.

USER NAME

Shows the complete name of the user to whom the specified user ID and its associated profile ID are assigned. The name can be up to 34 characters long and is used only for documentation and identification.

User Definition



```
JOBNAME:                     THE MONITOR FOR MVS              DATE:
SYSID  :                        VERSION: 2.0                  TIME:
                              USER DEFINITION

 COMMAND:

   OVERTYPE FIELDS TO "ADD" OR "UPDATE"

         USERID:             TMONMVS

         PASSWORD:           TMONMVS

         USER FULL NAME:     MASTER USER

         PROFILE NAME:       $MASTER   <= CURSOR SELECT FOR FURTHER DETAIL

 ============================================================================

   CURSOR SELECT ONE OF THE FOLLOWING:   _ADD   _UPDATE   _DELETE



  HELP INFORMATION = PF1                           PF KEY ASSIGNMENTS = PA1
```

The User Definition screen lets you update the product user definitions in the control file.

You can add a new user definition to the list, update the detailed information that makes up a user definition, or delete an existing user definition. The detailed information consists of the user ID, password, user full name, and profile name defined for the specific user.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	**Action**	**Displays**
TMON for CICS/ESA	On the command line, enter *=10.1.7.1*.	User Profiles Directory
	Cursor-select a user ID.	User Definition
TMON for CICS/MVS	On the command line, enter *=10.1.9.1*.	User Profiles Directory
	Cursor-select a user ID.	User Definition
TMON for DB2	On the command line, enter *=8.1.1*.	User Profiles Directory
	Cursor-select a user ID.	User Definition
TMON for DBCTL	On the command line, enter *=M.1.1*.	User Profiles Directory
	Cursor-select a user ID.	User Definition
TMON for MQSeries	On the command line, enter *=8.1.1*.	User Profiles Directory
	Cursor-select a user ID.	User Definition
TMON for MVS	On the command line, enter *=S.2.1*.	User Profiles Directory
	Cursor-select a user ID.	User Definition

Primary Commands

Enter the following commands on the command line.

ADD
Adds user definitions to the control file. Type over the appropriate fields (PASSWORD, PROFILE, USER FULL NAME, or USERID) to identify the new user or profile ID; then enter this command (or cursor-select the ADD field).

DELETE
Deletes user definitions from the control file. You also can cursor-select the DELETE field to perform this function.

UPDATE
Updates user definitions in the control file. Type over the information you want to change; then enter this command (or cursor-select the UPDATE field).

For syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

➥ **ADD**
Adds a definition to the control file. Type over the appropriate fields (PASSWORD, PROFILE, USER FULL NAME, or USERID) to identify the new user or profile ID; then cursor-select this field to add the definition to the control file. You also can use the ADD command to perform this function.

➥ **DELETE**
Deletes a user definition from the control file.

Cursor-select this field to delete the definition. You also can use the DELETE command to perform this function.

PASSWORD
Shows the 1- to 8-character password associated with the user ID. When passwords are changed, they immediately affect product security.

➥ **PROFILE NAME**
Displays the 1- to 8-character profile identifier for the product associated with the user ID.

Cursor-select this field if you need information about a named profile or if you want to update profile definitions. The Profiles/Resources Directory screen, described later in this chapter, is displayed.

➥ **UPDATE**
Updates a user definition in the control file. Type over the information you want to change; then cursor-select this field to update the definition in the control file. You also can use the UPDATE command to perform this function.

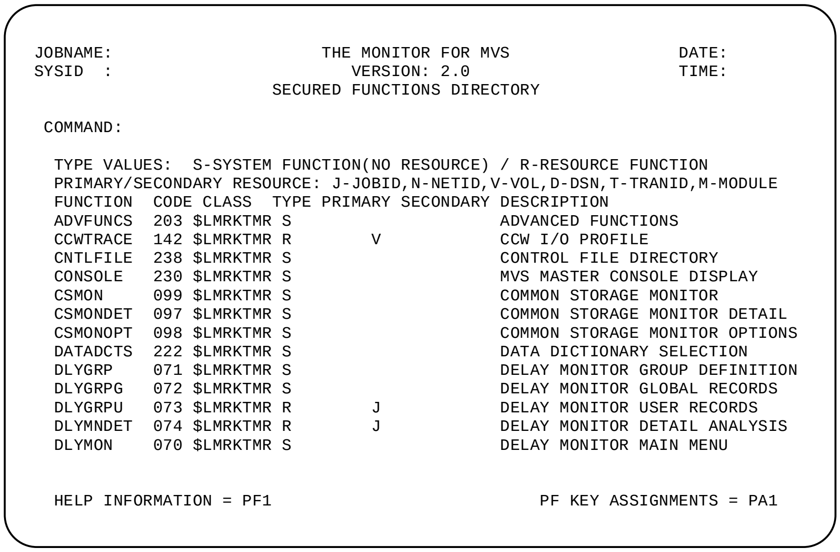
USER FULL NAME

Displays the complete name of the user to whom the specified user ID and its associated profile ID are assigned. The name can be up to 34 characters long.

USERID

Displays a 1- to 8-character user ID for the product.

Secured Functions Directory



```
JOBNAME:                     THE MONITOR FOR MVS                DATE:
SYSID  :                        VERSION: 2.0                    TIME:
                        SECURED FUNCTIONS DIRECTORY

 COMMAND:

  TYPE VALUES:  S-SYSTEM FUNCTION(NO RESOURCE) / R-RESOURCE FUNCTION
  PRIMARY/SECONDARY RESOURCE: J-JOBID,N-NETID,V-VOL,D-DSN,T-TRANID,M-MODULE
  FUNCTION  CODE CLASS  TYPE PRIMARY SECONDARY DESCRIPTION
  ADVFUNCS  203 $LMRKTMR S                     ADVANCED FUNCTIONS
  CCWTRACE  142 $LMRKTMR R        V            CCW I/O PROFILE
  CNTLFILE  238 $LMRKTMR S                     CONTROL FILE DIRECTORY
  CONSOLE   230 $LMRKTMR S                     MVS MASTER CONSOLE DISPLAY
  CSMON     099 $LMRKTMR S                     COMMON STORAGE MONITOR
  CSMONDET  097 $LMRKTMR S                     COMMON STORAGE MONITOR DETAIL
  CSMONOPT  098 $LMRKTMR S                     COMMON STORAGE MONITOR OPTIONS
  DATADCTS  222 $LMRKTMR S                     DATA DICTIONARY SELECTION
  DLYGRP    071 $LMRKTMR S                     DELAY MONITOR GROUP DEFINITION
  DLYGRPG   072 $LMRKTMR S                     DELAY MONITOR GLOBAL RECORDS
  DLYGRPU   073 $LMRKTMR R        J            DELAY MONITOR USER RECORDS
  DLYMNDET  074 $LMRKTMR R        J            DELAY MONITOR DETAIL ANALYSIS
  DLYMON    070 $LMRKTMR S                     DELAY MONITOR MAIN MENU


  HELP INFORMATION = PF1                           PF KEY ASSIGNMENTS = PA1
```

The Secured Functions Directory screen lets you display the functions that can be secured in the product. You can review each function, the class to which the function belongs, and the text description of the function. You also can see which functions are resource functions (type R) and which are system functions (type S).

All functions are described in the function code table, later in this chapter. You cannot update any of these functions.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	Action	Displays
TMON for CICS/ESA	On the command line, enter *=10.1.7.2*.	Secured Functions Directory
TMON for CICS/MVS	On the command line, enter *=10.1.9.2*.	Secured Functions Directory
TMON for DB2	On the command line, enter *=8.1.2*.	Secured Functions Directory
TMON for DBCTL	On the command line, enter *=M.1.2*.	Secured Functions Directory
TMON for MQSeries	On the command line, enter *=8.1.2*.	Secured Functions Directory
TMON for MVS	On the command line, enter *=S.2.2*.	Secured Functions Directory

Primary Commands

Use the DOWN and UP commands to scroll through this screen. To learn about the various ways to scroll using these commands and for syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

CLASS

Displays the SAF/RACF class.

CODE

Shows the 3-digit internal identifier of the function.

DESCRIPTION

Displays the 1- to 30-character text description of the function.

FUNCTION

Displays the 1- to 8-character name of the facility within the product. All functions are listed in the function code table, later in this chapter.

PRIMARY

Shows the primary resource type for which a function can be secured. In addition to checking a user ID's access level for a given function, Landmark *PerformanceWorks* MVS products can limit a user ID's use of a function to a selected resource, as shown in the following table.

Value	Description
TMON for CICS	Primary resources are job names. You can limit the job names displayed on the Job Selection List screen for a given user ID using the JOBLIST function.
TMON for DB2	Primary resources are DB2 subsystem names. You can limit the DB2 subsystems monitored by a given user ID using the DB2AUTH function.
TMON for DBCTL	Primary resources are DBCTL subsystem names. You can limit the DBCTL subsystems monitored by a given user ID using the DBCAUTH function.
TMON for MQSeries	Primary resources are MQSeries object names. You can limit the queue managers monitored by a given user ID using the QMGRAUTH function.
TMON for MVS	Primary resources are job names or volume serial numbers. You can limit the ability to display I/O trace data to specific volumes (based on volume serial number) using the CCWTRACE function.

This field is blank if the TYPE field contains “S” (system function). If the value in the TYPE field is “R” (resource function), this field may contain a value.

PRIMARY/SECONDARY RESOURCE

Displays the abbreviations used for the PRIMARY and SECONDARY fields shown in the directory. The following table lists valid values.

Value	Description
D	The function can be secured by data set name. (For TMON for MQSeries, this is by object name.)
J	The function can be secured by job name.
M	The function can be secured by module name.
N	The function can be secured by network ID.
T	The function can be secured by transaction ID.

Value	Description
V	The function can be secured by tape or DASD volume.

Note Only J types currently are used by TMON for CICS. Only J and T types currently are used by TMON for DB2, TMON for DBCTL, and TMON for MVS. Only D types currently are used by TMON for MQSeries.

SECONDARY

Shows the secondary resource type for which a function can be secured.

TMON for DB2 secondary resources are DB2 plan or package names. Secondary resources qualify security within the limits of the primary resource. You can restrict the user plans that can be reviewed by DB2 subsystem name and plan name within DB2 subsystem using the PLANSUMM function.

TMON for CICS, TMON for DBCTL, TMON for MQSeries, and TMON for MVS do not use secondary resources for any of their functions.

TYPE

Displays the function type. Valid function types are “R” and “S” and are explained under the TYPE VALUES field.

TYPE VALUES

Displays the abbreviations used for the TYPE field shown in the directory. Valid values are “R” (the function is a resource function and uses a primary resource) and “S” (the function is a system function and uses no resources); “R” is the default.

Function Code Table

The following table describes every product secured function for Landmark *PerformanceWorks* MVS products. It is sorted by function (the second column). You cannot change these functions; they are predefined by each product.

Note TMON for CICS, TMON for DBCTL, TMON for MQSeries, and TMON for MVS do not use secondary resources. Thus, the Secondary Resource column in the table below applies only to TMON for DB2 (and in very few instances).

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for CICS	ACTIVMON	102	none		Controls access to the Activity Monitor.
TMON for DB2	ACTVLOG	053	DB2 subsystem		Controls the ability to display the DB2 Active Log Data Set Statistics screen.
TMON for DB2 TMON for DBCTL	ACTVMON	030 030	none none		Controls access to Current Thread Activity screens.
TMON for DB2	ACTVMON	030	none		Controls access to Current Thread Activity screens.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	ADVFUNCS	203 180 180 203 203	none none none none none		Controls access to advanced functions on the Advanced Functions menu in TMON for DB2, TMON for DBCTL, TMON for MQSeries, and TMON for MVS; TMON for CICS/ESA does not support this function.
TMON for DB2	CANCEL	031	DB2 subsystem		Controls the ability to cancel DB2 threads.
TMON for DBCTL	CBLKS	184	none		Controls the ability to display control block data.
TMON for MVS	CCWTRACE	142	volume		Controls the ability to display I/O trace data.
TMON for MQSeries	CHANAUTH	124	MQSeries object		Controls the ability to display channel data.
TMON for CICS	CICSSTAT	113	none		Controls use of CICS address space altering commands (for example, BRINGIN, DONTSWAP, and FREEZE) on the Job Selection List screen.
TMON for CICS TMON for MQSeries TMON for MVS	CNTLFILE	238 238 238	none none none		Controls access to a function that is not supported in TMON for CICS, TMON for MQSeries, or TMON for MVS.
TMON for CICS TMON for DBCTL	COLLANAL	107 107	none none		Controls access to Collection Analysis.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	CONSOLE	230 230 230 230 230	none none none none none		Controls access to the Console Summary Display screen.
TMON for MVS	CSMON	099	none		Controls access to the Common Storage Monitor screens.
TMON for MVS	CSMONDET	097	none		Controls access to the Common Storage Detail screen.

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for MVS	CSMONOPT	098	none		Controls access to the Common Storage Monitor Options screen.
TMON for DB2	CSTGSDSP	195	none		Controls access to the Database Common Storage Summary screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	DATADCTS	222 222 222 222 222	none none none none none		Controls access to data dictionary screens.
TMON for DB2	DB2AUTH	010	DB2 subsystem		Controls the ability to monitor a specific DB2 subsystem.
TMON for DB2	DB2CMD	032	DB2 subsystem		Controls the ability to issue DB2 commands. Currently, the only time a DB2 command can be issued is when the Current Thread Activity CANCEL command is used on a DDF thread. This command will generate the DB2 -CANCEL DDF THREAD command.
TMON for DB2	DB2CONN	033	DB2 subsystem		Controls the ability to use the CON, DIS, and QUI commands outside of the DB2 Monitoring Options screen.
TMON for DB2	DB2OPTS	170			Controls access to the DB2 Monitoring Options screen.
TMON for DBCTL	DBCAUTH	010	none		Controls the ability to monitor a specific DBCTL subsystem.
TMON for DBCTL	DBCCONN	033	none		Controls DBCTL connect.
TMON for DBCTL	DBCOPTS	170	none		Controls access to the DBCTL Monitoring Options screen.
TMON for MVS	DLYGRP	071	none		Controls access to the Workload Delay Definition List screen.
TMON for MVS	DLYGRPG	072	none		Controls access to global definitions on the Workload Delay Definition List screen.
TMON for MVS	DLYGRPU	073	job name		Controls access to user definitions on the Workload Delay Definition List screen.
TMON for MVS	DLYMNDET	074	job name		Controls access to the Delay Monitor Detail screen.
TMON for MVS	DLYMON	070	none		Controls access to the Delay Monitor Menu.
TMON for MQSeries	DPAUTH	190	none		Controls access to the Dead Letter Queue (DLQ) Processor.
TMON for DB2	DSNZPDSP	182	none		Controls access to the DB2 DSNZPARM/DSNHDECP Display screen.
TMON for DB2	EDMSTAT	054	DB2 subsystem		Controls access to EDM pool statistics.
TMON for DB2 TMON for MQSeries	EXCPDEF	072 130	none none		Controls the ability to define, activate, and deactivate exceptions.

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for MQSeries TMON for MVS	EXCPTDEF	154 130	none none		For TMON for MQSeries, controls the ability to add and update exceptions. For TMON for MVS, controls access to the Exception Definition Menu.
TMON for DB2 TMON for DBCTL	EXCPVIEW	073 073	none none		Controls the ability to view the Exception Monitor screens.
TMON for DB2	EXPLAIN	210	DB2 subsystem		Controls access to the DB2 EXPLAIN Utility.
TMON for CICS	FLDBANAL	108	none		Controls access to Resource Analysis.
TMON for MVS	GDCOPTS	079	none		Controls access to data collection options.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	HELPMENU	235 235 235 235 235	none none none none none		Controls access to the Help Definitions Menu.
TMON for DB2	HISTANL	140	none		Controls access to History Analysis functions.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	HLPFLDIR	236 236 236 236 236	none none none none none		Controls access to the Field-Level Help Directory screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	HLPFLDTL	237 237 237 237 237	none none none none none		Controls access to the Field-Level and Message-Level Help Detail screens.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	HLPMSDIR	253 253 253 253 253	none none none none none		Controls access to the Message-Level Help Directory screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	HLPSLDIR	205 205 205 205 205	none none none none none		Controls access to the Screen-Level Help Directory screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	HLPSLDTL	206 206 206 206 206	none none none none none		Controls access to the Screen-Level Help Detail screen.
TMON for MVS	IODVHIST	140	none		Controls access to the Device Activity History Screen.
TMON for MVS	IOMON	143	none		Controls access to the I/O Monitor Menu options.
TMON for MVS	IOPSTART	141	none		Controls the ability to start I/O profiles.
TMON for DBCTL	ITASKANL	181	none		Controls the ability to access the ITASK Analysis screens.
TMON for CICS	JOBLIST	101	job name		Controls access to the Job Selection List screen.

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for DB2 TMON for DBCTL TMON for MQSeries	JOBSUMM	196 196 196	none none none		Controls access to the Active Job Summary screen.
TMON for CICS TMON for MQSeries TMON for MVS	LOGOSCRN	004 004 004	none none none		Controls access to the sign-on screen; TMON for CICS/ESA does not support this function.
TMON for MVS	MDFPRSM	176	none		Controls access to the Domain and LPAR Summary screens.
TMON for DBCTL	MODSTOR	182	none		Controls the ability to modify DBCTL storage.
TMON for DB2 TMON for MQSeries	MONCNTL	160 160	none none		Controls access to Monitor Controls.
TMON for DB2 TMON for DBCTL TMON for MQSeries	MONINIT	163 163 163	none none none		Controls the ability to access Monitor Initialization options.
TMON for MQSeries	MSGAUTH	125	MQSeries object		Controls access to message functions.
TMON for CICS	MVSCONTN	105	none		Controls access to the MVS Contention Monitor.
TMON for MQSeries	NAMLAUTH	159	MQSeries object		Controls command functions for namelists.
TMON for DB2	ONLINANL	090	none		Controls access to Online Analysis.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	OPENMAIN	217 217 217 217 217	none none none none none		Controls access to storage in another address space (OPENMAIN=asid); TMON for DB2 does not support this function.
TMON for CICS	PASSTHRU	110	none		Controls access to Pass-Through Sessions.
TMON for CICS	PERFORM	103	none		Controls access to the Performance Monitor.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	PFKDEF	250 250 250 250 250	none none none none none		Controls access to the Function Key Definitions screen.
TMON for DB2 TMON for DBCTL	PFKEYS	233 233	none none		Controls the ability to update function key assignments.
TMON for DB2	PGSETDSP	101	DB2 subsystem		Controls access to the Page Set Activity Summary screen.
TMON for DB2	PLANSUMM	212	DB2 subsystem	DB2 plan name	Controls access to user plans and packages.
TMON for CICS	PROBALRT	104	none		Controls access to the Problem/Alert Monitor.
TMON for MQSeries	PROCAUTH	122	MQSeries object		Controls access to process group functions.
TMON for DBCTL	PRODPSWD	202	none		Controls product password entry.
TMON for CICS	PRODPSWG	201	none		Controls access to a function that TMON for CICS/ESA does not support.

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	PROFDTL	246 246 246 246 246	none none none none none		Controls access to the Detail Profile Definition screen.
TMON for MQSeries TMON for MVS	PRTAUTOF	093 093	none none		Controls the ability to use the PRINTOFF command.
TMON for MQSeries TMON for MVS	PRTAUTON	092 092	none none		Controls the ability to use the PRINTON command.
TMON for MQSeries TMON for MVS	PRTCLOSE	091 091	none none		Controls the ability to use the CLOSEPRINT command.
TMON for MQSeries TMON for MVS	PRTCMD	090 090	none none		Controls the ability to use the PRINT command.
TMON for MQSeries TMON for MVS	PRTDFDSN	081 081	none none		Controls access to the Define Print Screen Dataset screen.
TMON for MQSeries TMON for MVS	PRTDFSYS	082 082	none none		Controls access to the Define Print Screen SYSOUT screen.
TMON for MQSeries TMON for MVS	PRTDFVTM	083 083	none none		Controls access to a function not supported by TMON for MQSeries or TMON for MVS.
TMON for MQSeries TMON for MVS	PRTMENU	080 080	none none		Controls access to the Print Screen Definition Menu.
TMON for MQSeries TMON for MVS	PRTSTART	095 095	none none		Controls the ability to use the STARTPRINT command.
TMON for MQSeries TMON for MVS	PRTSTOP	094 094	none none		Controls the ability to use the STOPPRINT command.
TMON for DBCTL	PSBACTRK	065	none		Controls access to PSB tracking functions.
TMON for MQSeries	QAUTH	121	MQSeries object		Controls access to queue functions.
TMON for MQSeries	QMGRAUTH	120	MQSeries object		Controls access to queue manager functions.
TMON for MQSeries	QMGREVNT	135	none		Controls access to the Queue Manager Events screen.
TMON for MQSeries	QMGROPTS	170	none		Controls the ability to update the queue manager monitoring options.
TMON for MQSeries	QMGRSEC	157	MQSeries object		Controls command functions for queue manager security.
TMON for DB2 TMON for DBCTL	RESRCDSP	190 190	none none		Controls access to the DB2 and DBCTL Resource Usage screens.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	RMTPTDEF	209 209 209 209 209	none none none none none		Controls access to the Remote Sessions Directory and Remote Session Definition screens.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	RMTPTSEL	207 207 207 207 207	none none none none none		For TMON for CICS, controls access to Pass Through to Other Landmark Products. For TMON for DB2, TMON for DBCTL, TMON for MQSeries, and TMON for MVS, controls access to the Remote Sessions Logon screen.

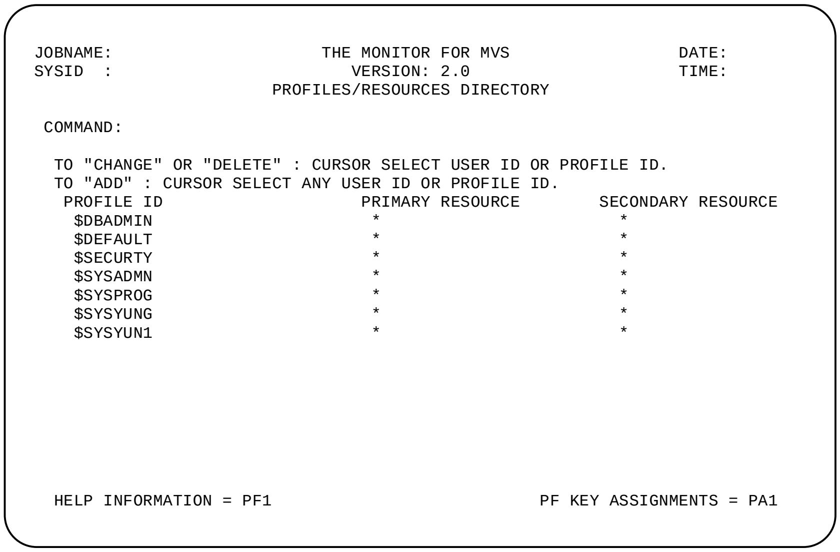
Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for DBCTL	RSR	055	none		Controls access to remote site recovery functions.
TMON for DB2	SAVESQL	216	none		Controls the ability to export SQL data from the DB2 EXPLAIN Utility to a sequential or partitioned data set.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	SECFUNCS	243 243 243 243 243	none none none none none		Controls access to the Secured Functions Directory screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	SECFUNDF	245 245 245 245 245	none none none none none		Controls access to the Secured Function Definition screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	SECURITY	240 240 240 240 240	none none none none none		Controls access to security definitions.
TMON for DB2 TMON for DBCTL	SELUSRID	006 006	none none		In TMON for DB2, controls the ability to activate a set created by a user with a different user ID or to update the user ID assigned to a set. In TMON for DBCTL, controls access to the USERID= option.
TMON for DB2	SETAUTH	012	none		Controls the ability to update or delete sets that do not match the signed on user ID.
TMON for DB2	SHDWFRSH	044	DB2 subsystem		Controls the ability to issue the SHADOWREFRESH command.
TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	SHIFTDEF	175 175 175 177	none none none none		Controls access to shift definitions.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	SHUTDOWN	003 002 002 003 003	none none none none none		Controls use of the SHUTDOWN command.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	SIGNON	001 001 001 001 001	none none none none none		Controls the ability to log onto the product.
TMON for DB2	SQLCCPA	041	DB2 subsystem		Controls the ability to access the SQL Capture Collection Profile Summary screen and start/stop dynamic SQL Capture profiles from the Current Thread Summary (Short and Long) screens.
TMON for DB2	SQLCGDF	042	DB2 subsystem		Controls the ability to access the SQL Capture Collection Controls screen.

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for DB2	SQLTEXT	040	DB2 subsystem	DB2 plan name	Controls access to the Current Thread SQL Text Detail screen only if the thread is executing a specified plan within a specified DB2 subsystem.
TMON for MQSeries	STGCAUTH	123	job name		Controls access to storage class functions.
TMON for DBCTL	STGPOOLS	210	none		Controls access to storage class functions.
TMON for CICS	STORANAL	106	none		Controls access to the Storage Analysis menu.
TMON for CICS TMON for MVS	STORTCBS	221 221	none none		Controls access to the Address Space TCB Map screen.
TMON for CICS TMON for MVS	STORTIOT	220 220	none none		Controls access to the TIOT Display screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	STRGALTR	211 211 211 211 211	none none none none none		Controls the ability to alter storage.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	STRGDSPY	137 137 137 137 137	none none none none none		Controls the ability to display storage in any format.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	STRGNPRV	115 115 115 115 115	none none none none none		Controls the ability to alter and display nonprivate storage.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	STRGPRV	116 116 116 116 116	none none none job name job name		Controls the ability to alter and display private storage.
TMON for DB2	STUNLOAD	118	none		Controls the ability to unload trace data to a sequential data set in SMF format.
TMON for DB2	SUPERTDM	111	DB2 subsystem		Controls the ability to view collected trace data.
TMON for CICS TMON for DB2	SUPERTRC	109 110	none none		Controls access to Supertrace.
TMON for DB2	SUPERTSD	112	DB2 subsystem		Controls the ability to start Supertraces.
TMON for MVS	SVCDUPD	180	none		Controls the ability to customize the description of an SVC table.
TMON for MVS	SYSADM	178	none		Controls access to the System Administration menu.
TMON for CICS	SYSADMIN	111	none		Controls access to System Administration screens.
TMON for CICS	TASKCANC	118	none		Controls the ability to cancel a task when using the Activity Monitor.

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for MQSeries	THRDAUTH	156	job name		Controls command functions for threads.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	USERCMDS	208 208 208 208 208	none none none none none		Controls access to the User Command Definitions screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	USERDEF	242 242 242 242 242	none none none none none		Controls access to the User Definition screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	USERDIR	241 241 241 241 241	none none none none none		Controls access to the User Profiles Directory screen.
TMON for CICS TMON for DB2 TMON for DBCTL TMON for MQSeries TMON for MVS	USERPROF	244 244 244 244 244	none none none none none		Controls access to the Profiles/Resources Directory screen.
TMON for MVS	UTILAPFL	155	none		Controls access to the APF Utility screen.
TMON for MVS	UTILASMB	169	none		Controls access to the ASM Control Blocks screen.
TMON for MVS	UTILDASD	153	none		Controls access to the DASD and Tape Services Menu.
TMON for MVS	UTILDDSL	158	none		Controls access to the System Dump Data Set Display screen (SYS.DUMPnn data sets).
TMON for MVS	UTILDSNI	175	none		Controls access to the Data Set Information Display screen.
TMON for MVS	UTILDSNU	174	none		Controls access to the Data Set Name Utility.
TMON for MVS	UTILFSPC	159	none		Controls access to the FSPACE Utility.
TMON for MVS	UTILIOSB	170	none		Controls access to the IOS Control Blocks screen.
TMON for MVS	UTILJOBB	171	none		Controls access to the Job Control Blocks screen.
TMON for MVS	UTILJOBS	154	none		Controls access to the Job-Related Services Menu.
TMON for MVS	UTILJPGN	165	job name		Controls access to the Performance Group Utility.
TMON for MVS	UTILJTRM	164	job name		Controls access to the Job Termination Utility and the TCB KILL function of the CDE Detail Display screen.
TMON for MVS	UTILLNKL	157	none		Controls access to the LNKLST Utility.
TMON for MVS	UTILLPAL	156	none		Controls access to the LPA/Nucleus Utility screen.
TMON for MVS	UTILMENU	150	none		Controls access to the Utilities Menu.

Product	Function	Code	Primary Resource	Secondary Resource	Description
TMON for DB2 TMON for DBCTL	UTILMON	051 051	none none		Controls access to the Current System Statistics menu.
TMON for MVS	UTILMSTG	152	none		Controls access to the MVS Storage Displays Menu.
TMON for MVS	UTILMVSB	166	none		Controls display of the MVS Control Blocks screen.
TMON for MVS	UTILSRMB	167	none		Controls access to the SRM Control Blocks screen.
TMON for MVS	UTILSSVC	151	none		Controls access to the Systems Services Menu.
TMON for MVS	UTILSWAP	163	none		Controls access to the Swap Status Utility.
TMON for MVS	UTILVMNT	162	none		Controls access to the Volume Mount Utility.
TMON for MVS	UTILVOLU	173	none		Controls access to the Volume Use Utility.
TMON for MVS	UTILVSMB	168	none		Controls access to the VSM Control Blocks screen.
TMON for MVS	WKLDDEF	179	none		Controls access to workload definitions.
TMON for DB2	WRKBENCH	095	none		Controls entry into the Analytic Workbench.
TMON for MVS	XCFMON	096	none		Controls access to the XCF Activity Selection Menu options.

Profiles/Resources Directory



```
JOBNAME:                     THE MONITOR FOR MVS                DATE:
SYSID  :                        VERSION: 2.0                    TIME:
                        PROFILES/RESOURCES DIRECTORY

 COMMAND:

  TO "CHANGE" OR "DELETE" : CURSOR SELECT USER ID OR PROFILE ID.
  TO "ADD" : CURSOR SELECT ANY USER ID OR PROFILE ID.
   PROFILE ID                    PRIMARY RESOURCE        SECONDARY RESOURCE
    $DBADMIN                      *                        *
    $DEFAULT                      *                        *
    $SECURTY                      *                        *
    $SYSADMN                      *                        *
    $SYSPROG                      *                        *
    $SYSYUNG                      *                        *
    $SYSYUN1                      *                        *






  HELP INFORMATION = PF1                             PF KEY ASSIGNMENTS = PA1
```

The Profiles / Resources Directory screen lists security profile definitions in the control file.

Security definitions for *resource functions* (functions that can be limited by primary and secondary resources) may vary depending upon the access levels set for those functions with the individual resource.

TMON for MVS example

You might use a profile to let users use the Performance Group Utility for job names beginning with the letters “DB”, but restrict users from using the Performance Group Utility for job names beginning with the letters “DV”.

The security definitions given with the first resource listed are used to secure *system functions* (functions that do not use resources). Resources always are sorted, displayed, and used alphabetically. For example, if a profile called SAMPLE displays two primary resources, DEV* and TEST*, the DEV* resource is listed first, and its security definitions for system functions are used first. The security definitions of system functions for the TEST* resource are ignored.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	Action	Displays
TMON for CICS/ESA	On the command line, enter *=10.1.7.3*.	Profiles/Resources Directory
TMON for CICS/MVS	On the command line, enter *=10.1.9.3*.	Profiles/Resources Directory
TMON for DB2	On the command line, enter *=8.1.3*.	Profiles/Resources Directory

Product	Action	Displays
TMON for DBCTL	On the command line, enter *=M.1.3*.	Profiles/Resources Directory
TMON for MQSeries	On the command line, enter *=8.1.3*.	Profiles/Resources Directory
TMON for MVS	On the command line, enter *=S.2.3*.	Profiles/Resources Directory

If you access the Profile/Resources Directory screen as the third option of the Security Definitions Menu, it displays resource information for all existing security profile definitions in the control file. If you access the screen from the User Definition or User Profiles Directory screen, it displays only the resources for the specific profile you selected.

Primary Commands

Use the DOWN and UP commands to scroll through this screen. To learn about the various ways to scroll using these commands and for syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

PRIMARY RESOURCE

Shows the name of the principal resource for the profile definition. In addition to checking a user ID's access level for a given function, Landmark *PerformanceWorks* MVS products can limit a user ID's use of a function to a selected resource.

- TMON for CICS primary resources are job names.
- TMON for DB2 primary resources are DB2 subsystem names.
- TMON for DBCTL primary resources are DBCTL subsystem names.
- TMON for MQSeries primary resources are MQSeries object names.
- TMON for MVS primary resources are job names or volume serial numbers.

An asterisk (*) in the field shows that pattern matching is being used. For example, PROD* identifies all primary resources beginning with the letters "PROD." If you specify an asterisk alone, all values of the primary resource are used.

➥ PROFILE ID

Displays the 1- to 8-character profile ID for the product.

Cursor-select this field to add, update, or delete profile definitions. The Detail Profile Definition screen is displayed.

SECONDARY RESOURCE

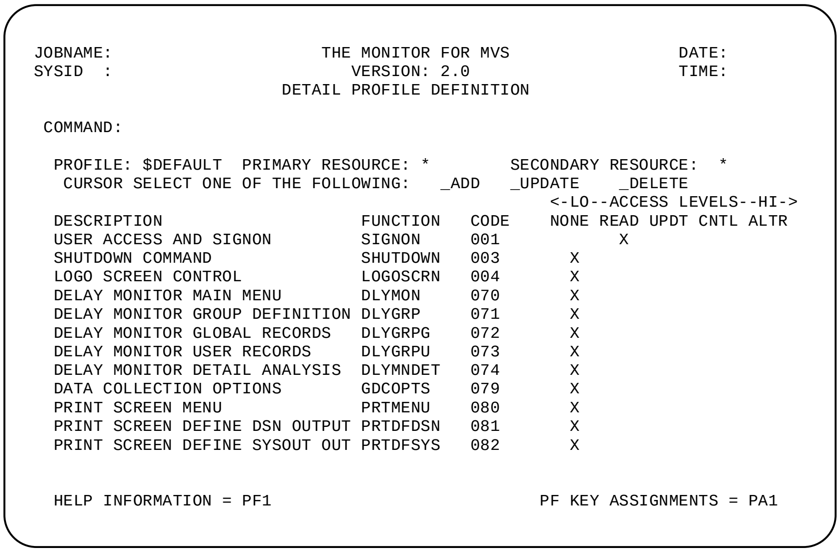
Shows the name of the secondary resource for the profile definition.

TMON for CICS, TMON for DBCTL, TMON for MQSeries, and TMON for MVS do not use secondary resources.

TMON for DB2 secondary resources are DB2 plan or package names. Secondary resources qualify security within the limits of the primary resource. For example, you can restrict the user plans that can be reviewed by DB2 subsystem name and by plan name within DB2 subsystem using the PLANSUMM function. If you restrict TMON for DB2 by secondary resources, you must first specify a primary and secondary resource pair in the profile using an asterisk (*) for the secondary resource. You then can specify a second primary and secondary resource pair in the profile using the transaction ID for the secondary resource. This step is necessary because TMON for DB2 security needs to know what default security to use for DB2 subsystem names that match the primary resource but DB2 plan or package names that do not match the secondary resource.

An asterisk (*) in the field shows that pattern matching is being used. For example, PROD* identifies all secondary resources beginning with the letters “PROD.” If you specify an asterisk alone, all values of the secondary resource are used.

Detail Profile Definition



```
JOBNAME:                     THE MONITOR FOR MVS                 DATE:
SYSID  :                        VERSION: 2.0                     TIME:
                         DETAIL PROFILE DEFINITION

 COMMAND:

  PROFILE: $DEFAULT  PRIMARY RESOURCE: *        SECONDARY RESOURCE:  *
   CURSOR SELECT ONE OF THE FOLLOWING:   _ADD   _UPDATE    _DELETE
                                                    <-LO--ACCESS LEVELS--HI->
  DESCRIPTION                    FUNCTION   CODE    NONE READ UPDT CNTL ALTR
  USER ACCESS AND SIGNON         SIGNON     001            X
  SHUTDOWN COMMAND               SHUTDOWN   003       X
  LOGO SCREEN CONTROL            LOGOSCRN   004       X
  DELAY MONITOR MAIN MENU        DLYMON     070       X
  DELAY MONITOR GROUP DEFINITION DLYGRP     071       X
  DELAY MONITOR GLOBAL RECORDS   DLYGRPG    072       X
  DELAY MONITOR USER RECORDS     DLYGRPU    073       X
  DELAY MONITOR DETAIL ANALYSIS  DLYMNDET   074       X
  DATA COLLECTION OPTIONS        GDCOPTS    079       X
  PRINT SCREEN MENU              PRTMENU    080       X
  PRINT SCREEN DEFINE DSN OUTPUT PRTDFDSN   081       X
  PRINT SCREEN DEFINE SYSOUT OUT PRTDFSYS   082       X


  HELP INFORMATION = PF1                           PF KEY ASSIGNMENTS = PA1
```

The Detail Profile Definition screen lists detailed information for a selected security profile. The *detail profile definition* consists of the profile ID, the qualifying resources, function descriptions, function names and codes, and access levels.

Changes to a profile take effect the next time a user logs onto the product and invokes the profile.

If a profile lists multiple resources, the security definitions given with the first resource listed are used to secure *system functions* for the profile (functions that do not use primary or secondary resources). If other primary resources are listed for this profile on the Profiles / Resources Directory screen, the security definitions for their system functions are ignored.

Caution

We recommend that you do not change the default security profiles shipped with your Landmark *PerformanceWorks* MVS product. The control file PDS member containing these profiles (V@RECS) may be changed in the next release. When this member is copied into your VSAM control file, all your changes to the default profiles will be overlaid.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	Action	Displays
TMON for CICS/ESA	On the command line, enter *=10.1.7.3*.	Profiles/Resources Directory
	Cursor-select a profile definition.	Detail Profile Definition
TMON for CICS/MVS	On the command line, enter *=10.1.9.3*.	Profiles/Resources Directory
	Cursor-select a profile definition.	Detail Profile Definition
TMON for DB2	On the command line, enter *=8.1.3*.	Profiles/Resources Directory
	Cursor-select a profile definition.	Detail Profile Definition

Product	Action	Displays
TMON for DBCTL	On the command line, enter *=M.1.3*.	Profiles/Resources Directory
	Cursor-select a profile definition.	Detail Profile Definition
TMON for MQSeries	On the command line, enter *=8.1.3*.	Profiles/Resources Directory
	Cursor-select a profile definition.	Detail Profile Definition
TMON for MVS	On the command line, enter *=S.2.3*.	Profiles/Resources Directory
	Cursor-select a profile definition.	Detail Profile Definition

Primary Commands

Enter the following commands on the command line.

ADD

Adds a profile definition to the control file. Type over the appropriate fields (LO-ACCESS LEVELS-HI, PRIMARY RESOURCE, PROFILE, and SECONDARY RESOURCE) to identify the profile definition; then enter this command (or cursor-select the ADD field).

DELETE

Deletes a profile definition from the control file. You also can cursor-select the DELETE field to perform this function.

UPDATE

Updates a profile definition in the control file. Type over the information you want to change; then enter this command (or cursor-select the UPDATE field).

Use the DOWN and UP commands to scroll through this screen. To learn about the various ways to scroll using these commands and for syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

➥ **ADD**

Adds a profile definition to the control file. Type over the appropriate fields (LO-ACCESS LEVELS-HI, PRIMARY RESOURCE, PROFILE, and SECONDARY RESOURCE) to identify the profile definition; then cursor-select this field to add the definition to the control file. You also can use the ADD command to perform this function.

CODE

Shows the 3-digit internal function ID. You cannot modify this field.

➥ **DELETE**

Deletes a profile definition from the control file.

Cursor-select this field to delete the definition. You also can use the DELETE command to perform this function.

DESCRIPTION

Displays the 1- to 30-character description of the function. You cannot change this field.

FUNCTION

Displays the 1- to 8-character name of the facility within the product. You cannot change this field.

LO-ACCESS LEVELS-HI

Displays the level of access assigned this profile for each secured function. Enter *X* under the access level appropriate for the function and the profile. Access levels vary in meaning depending on the function. Review the function access level table, later in this chapter, to identify the minimum access level required for a specific function and a description of the other access levels for that function (if more than one access level applies). The following table describes the five access levels, in order of increasing security level.

Access Level	Description
NONE	The lowest security access level. An X (the default) in this field denies the user access to the function.
READ	Defines READ access authorization. This is the fourth highest level of secured access.
UPDT	Defines UPDATE access authorization. This is the third highest level of secured access. Users with UPDT access also have READ access to the function.
CNTL	Defines CONTROL access authorization. This is the second highest level of secured access. Users with CNTL access also have READ and UPDT access to the function.
ALTR	Defines ALTER access authorization. This is the highest level of secured access. Users with ALTR access have total access, including READ, UPDT, and CNTL access to the function.

PRIMARY RESOURCE

Shows the name of the principal resource for this profile definition. User IDs using this profile definition are in effect only for the resource specified here.

- TMON for CICS primary resources are job names.
- TMON for DB2 primary resources are DB2 subsystem names.
- TMON for DBCTL primary resources are DBCTL subsystem names.
- TMON for MQSeries primary resources are MQSeries object names.
- TMON for MVS primary resources are job names or volume serial numbers.

You can use an asterisk (*) to activate pattern matching for this field. For example, PROD* identifies all primary resources beginning with the characters “PROD.” If you specify an asterisk alone, all values of the primary resource are used.

If you want to specify more primary resources than this screen allows (even after using pattern matching), add other definitions for the profile using the other primary resources. Only the access levels specified for the first profile / resource definition are used in security for *system functions* (functions that do not use resources), but all of the different primary resources in the other definitions are included in the security for *resource functions*.

TMON for MQSeries example

You can use the QMGRAUTH function to limit the queue managers monitored by a given user ID. In this example, access levels are defined for system functions based on the settings in the $EXAMPLE profile with CSQ* resource. The access levels defined for system functions in the $EXAMPLE profile with the CSQ* resource are ignored. They are ignored because the CSQ* resource is defined before the OTH* resource and, consequently, is encountered first by Internal Security.

Profile ID	Primary Resource
$EXAMPLE	CSQ*
	OTH*

PROFILE

Displays the 1- to 8-character product profile ID you selected on the Profiles / Resources Directory screen. Change this ID if you want to add a new profile definition.

SECONDARY RESOURCE

Shows the name of the auxiliary resource for this profile definition.

TMON for CICS, TMON for DBCTL, TMON for MQSeries, and TMON for MVS do not use secondary resources.

TMON for DB2 secondary resources are DB2 plan or package names. If you restrict TMON for DB2 by secondary resources, you must first specify a primary and secondary resource pair in the profile using an asterisk (*) for the secondary resource. You then can specify a second primary and secondary resource pair in the profile using the transaction ID for the secondary resource. This step is necessary because TMON for DB2 security needs to know what default security to use for DB2 subsystem names that match the primary resource but DB2 plan or package names that do not match the secondary resource.

An asterisk (*) in the field shows that pattern matching is being used. For example, PROD* identifies all secondary resources beginning with the letters “PROD.” If you specify an asterisk alone, all values of the secondary resource are used.

If you want to specify more secondary resources than this screen allows (even after using pattern matching), add other definitions for the profile using the same primary resource and other secondary resources. Only the access levels specified for the first profile / primary resource / secondary resource definition are used in security for system functions, but all of the defined secondary resources are included in the security for resource functions. For example, you can restrict the user plans that can be reviewed by DB2 subsystem name and plan name within DB2 subsystem using the PLANSUMM function.

➥ **UPDATE**

Updates a profile definition in the control file. Type over the information you want to change; then cursor-select this field to update the definition in the control file. You also can use the UPDATE command to perform this function.

Function Access Level Table

This section shows the minimum access level required to use each product function within your Landmark *PerformanceWorks* MVS product.

If more than one access level is indicated for a function (in other words, if more than one access level column has an X in it), the various access levels provide access to different aspects of the function. Read the description in the Notes column to determine which access level you need.

If READ access is the only access level shown for a function, the function has only two levels of authorization: access or no access. In other words, the READ, UPDT, CNTL, and ALTR access levels all provide access to the function with no distinction between them; the NONE access level restricts use of the function. For example, the READ, UPDT, CNTL, and ALTR access levels all have the same meaning for the HELPMENU function: They allow access to the Help Definitions Menu.

Likewise, if a function shows a blank in an access level column, that access level has the same meaning as the previous access column with an X in it. For example, the CNTL and ALTR access levels for the CONSOLE function have the same meaning as the UPDT function: They allow access to view the console displays, and they allow commands to be entered on the displays. The READ access level of the CONSOLE function, however, only allows access to view the console displays.

To deny access to any function, specify an access level of NONE (or “N”). The following abbreviations are used in the table:

A	ALTR access authorization
C	CNTL access authorization
N	No security
R	READ access authorization
U	UPDT access authorization

TMON for CICS

The following table shows the *minimum* access level required to use each product function for TMON for CICS.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
ACTIVMON	102		X				
ADVFUNCS	180		X				
CICSSTAT	113					X	
CNTLFILE	238		X				
COLLANAL	107		X				

Function	**Code**	**Minimum Level Required**					**Notes**
		N	**R**	**U**	**C**	**A**	
CONSOLE	230		X	X			READ (or higher) lets users view console displays. UPDT (or higher) is required to enter commands on console displays.
DATADCTS	222		X				
FLDBANAL	108		X				
HELPMENU	235		X				
HLPFLDIR	236		X				
HLPFLDTL	237		X				
HLPMSDIR	253		X				
HLPSLDIR	205		X				
HLPSLDTL	206		X				
JOBLIST	101		X	X			Because the JOBLIST function uses the JOBNAME field as a resource ID, you may have NONE, READ, or UPDT access by job name. READ (or higher) lets users select the job from the Job Selection List screen. Functions that are capable of changing the state of the CICS region (such as starting Supertrace) may require UPDT access.
LOGOSCRN	004		X				
MVSCONTN	105		X				
OPENMAIN	217		X				
PASSTHRU	110		X				
PERFORM	103		X				
PFKDEF	250		X	X		X	READ (or higher) lets users view function key settings. UPDT (or higher) lets users change function key settings for their user ID. ALTR lets users change function key settings for any user ID.
PROBALRT	104		X				
PRODPSWG	201		X				
PROFDTL	246		X				
RMTPTDEF	209		X	X		X	READ (or higher) lets users view the remote session definitions. UPDT (or higher) lets users change remote session definitions and the SLU session ID prefix. ALTR lets users add and delete remote session definitions.
RMTPTSEL	207		X				
SECFUNCS	243		X				
SECFUNDF	245		X				

Function	**Code**	**Minimum Level Required**					**Notes**
		N	**R**	**U**	**C**	**A**	
SECURITY	240		X	X			READ (or higher) lets users access the Security Definitions Menu. UPDT (or higher) is required to change the type of logon and function security used.
SHUTDOWN	003		X				
SIGNON	001		X				
STORANAL	106		X				
STORTCBS	221		X				
STORTIOT	220		X				
STRGALTR	211		X				Works with the STRGNPRV and STRGPRV functions. To alter private storage, READ access must be specified for STRGALTR and UPDT must be specified for STRGPRV. To alter nonprivate storage, READ access must be specified for STRGALTR and UPDT must be specified for both STRGPRV and STRGNPRV.
STRGDSPY	137		X				Works with the STRGNPRV and STRGPRV functions. To display private storage, READ access must be specified for both STRGDSPY and STRGPRV. To display nonprivate storage, READ access must be specified for both STRGDSPY and STRGNPRV.
STRGNPRV	115		X	X			Works with the STRGDSPY, STRGALTR, and STRGPRV functions. To alter nonprivate storage, you must be authorized to alter private and nonprivate storage. See the above notes for the STRGDSPY and STRGALTR functions for the authorization required to display and alter nonprivate storage.
STRGPRV	116		X	X			Works with the STRGDSPY and STRGALTR functions. See the above notes on these functions for the authorization required to display and alter private storage.
SUPERTRC	109		X	X			READ (or higher) lets users view Supertrace data. To start Supertrace collection for the selected job(s), UPDT (or higher) must be specified for the JOBLIST function.
SYSADMIN	111		X	X			UPDT (or higher) is required to update data collection options in the System Administration option.
TASKCANC	118					X	

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
USERCMDS	208		X	X			READ (or higher) lets users view user command definitions. UPDT (or higher) lets users add and modify user command definitions.
USERDEF	242		X	X		X	READ (or higher) lets users view their own user ID definitions and passwords. UPDT (or higher) lets users review and update their own user ID definitions and passwords. ALTR lets users review and update any user ID definition and password.
USERDIR	241		X				
USERPROF	244		X				

TMON for DB2

The following table shows the *minimum* access level required to use each product function for TMON for DB2.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
ACTVLOG	053		X				
ACTVMON	030		X				
ADVFUNCS	180		X				
CANCEL	031		X				
CONSOLE	230		X	X			READ (or higher) lets users view console displays. UPDT (or higher) is required to enter commands on console displays.
CSTGSDSP	195		X				
DATADCTS	222		X				
DB2AUTH	010		X				
DB2CMD	032		X				
DB2CONN	033		X				
DB2OPTS	170		X				
DSNZPDSP	182		X				
EDMSTAT	054		X				
EXCPDEF	072		X				
EXCPVIEW	073		X				
EXPLAIN	210		X				
HELPMENU	235		X				
HISTANL	140		X				
HLPFLDIR	236		X				
HLPFLDTL	237		X				
HLPMSDIR	253		X				
HLPSLDIR	205		X				
HLPSLDTL	206		X				

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
JOBSUMM	196		X				
MONCNTL	160		X				
MONINIT	163		X				
ONLINANL	090		X				
OPENMAIN	217		X				
PFKDEF	250		X	X		X	READ (or higher) lets users view function key settings. UPDT (or higher) lets users change function key settings for their user ID. ALTR lets users change function key settings for any user ID.
PFKEYS	233		X				
PGSETDSP	101		X				
PLANSUMM	212		X				
PROFDTL	246		X				
RESRCDSP	190		X				
RMTPTDEF	209		X	X		X	READ (or higher) lets users view the remote session definitions. UPDT (or higher) lets users change remote session definitions and the SLU session ID prefix. ALTR lets users add and delete remote session definitions.
RMTPTSEL	207		X				
SAVESQL	216		X				
SECFUNCS	243		X				
SECFUNDF	245		X				
SECURITY	240		X	X			READ (or higher) lets users access the Security Definitions Menu. UPDT (or higher) is required to change the type of logon and function security used.
SELUSRID	006		X				
SETAUTH	012		X				
SHDWFRSH	044		X				
SHIFTDEF	175		X				
SHUTDOWN	002		X				
SIGNON	001		X				
SQLCCPA	041		X				
SQLCGDF	042		X				
SQLTEXT	040		X				

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
STRGALTR	211		X				Works with the STRGNPRV and STRGPRV functions. To alter private storage, READ access must be specified for STRGALTR and UPDT must be specified for STRGPRV. To alter nonprivate storage, READ access must be specified for STRGALTR and UPDT must be specified for both STRGPRV and STRGNPRV.
STRGDSPY	137		X				Works with the STRGNPRV and STRGPRV functions. To display private storage, READ access must be specified for both STRGDSPY and STRGPRV. To display nonprivate storage, READ access must be specified for both STRGDSPY and STRGNPRV.
STRGNPRV	115		X	X			Works with the STRGDSPY, STRGALTR, and STRGPRV functions. To alter nonprivate storage, you must be authorized to alter private and nonprivate storage. See the above notes for the STRGDSPY and STRGALTR functions for the authorization required to display and alter nonprivate storage.
STRGPRV	116		X	X			Works with the STRGDSPY and STRGALTR functions. See the above notes on these functions for the authorization required to display and alter private storage.
STUNLOAD	118		X				
SUPERTDM	111				X		
SUPERTRC	110		X				
SUPERTSD	112				X		
USERCMDS	208		X	X			READ (or higher) lets users view user command definitions. UPDT (or higher) lets users add and modify user command definitions.
USERDEF	242		X	X		X	READ (or higher) lets users view their own user ID definitions and passwords. UPDT (or higher) lets users review and update their own user ID definitions and passwords. ALTR lets users review and update any user ID definition and password.
USERDIR	241		X				
USERPROF	244		X				
UTILMON	051		X				
WRKBENCH	095		X				

TMON for DBCTL

The following table shows the *minimum* access level required to use each product function for TMON for DBCTL.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
ACTVMON	030		X				
ADVFUNCS	180		X				
CBLKS	184		X				
COLLANAL	107		X				
CONSOLE	230		X	X			READ (or higher) lets users view console displays. UPDT (or higher) is required to enter commands on console displays.
DATADCTS	222		X				
DBADMIN	110		X				
DBCAUTH	010		X				
DBCCONN	033		X				
DBCOPTS	170		X				
EXCPDEF	072		X				
EXCPVIEW	073		X				
HELPMENU	235		X				
HLPFLDIR	236		X				
HLPFLDTL	237		X				
HLPMSDIR	253		X				
HLPSLDIR	205		X				
HLPSLDTL	206		X				
ITASKANL	181		X				
JOBSUMM	196		X				
MODSTOR	182		X				
MONCNTL	160		X				
MONINIT	163		X				
OPENMAIN	217		X				
PFKDEF	250		X	X		X	READ (or higher) lets users view function key settings. UPDT (or higher) lets users change function key settings for their user ID. ALTR lets users change function key settings for any user ID.
PFKEYS	233		X				
PRODPSWD	202		X				
PROFDTL	246		X				
PSBACTRK	065		X				
RESRCDESP	190		X				

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
RMTPTDEF	209		X	X		X	READ (or higher) lets users view the remote session definitions. UPDT (or higher) lets users change remote session definitions and the SLU session ID prefix. ALTR lets users add and delete remote session definitions.
RMTPTSEL	207		X				
RSR	055		X				
SECFUNCS	243		X				
SECFUNDF	245		X				
SECURITY	240		X	X			READ (or higher) lets users access the Security Definitions Menu. UPDT (or higher) is required to change the type of logon and function security used.
SELUSRID	006		X				
SHIFTDEF	175		X				
SHUTDOWN	002		X				
SIGNON	001		X				
STGPOOLS	210		X				
STRGALTR	211		X				Works with the STRGNPRV and STRGPRV functions. To alter private storage, READ access must be specified for STRGALTR and UPDT must be specified for STRGPRV. To alter nonprivate storage, READ access must be specified for STRGALTR and UPDT must be specified for both STRGPRV and STRGNPRV.
STRGDSPY	218		X				Works with the STRGNPRV and STRGPRV functions. To display private storage, READ access must be specified for both STRGDSPY and STRGPRV. To display nonprivate storage, READ access must be specified for both STRGDSPY and STRGNPRV.
STRGNPRV	115		X	X			Works with the STRGDSPY, STRGALTR, and STRGPRV functions. To alter nonprivate storage, you must be authorized to alter private and nonprivate storage. See the above notes for the STRGDSPY and STRGALTR functions for the authorization required to display and alter nonprivate storage.
STRGPRV	116		X	X			Works with the STRGDSPY and STRGALTR functions. See the above notes on these functions for the authorization required to display and alter private storage.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
USERCMDS	208		X	X			READ (or higher) lets users view user command definitions. UPDT (or higher) lets users add and modify user command definitions.
USERDEF	242		X				
USERDIR	241		X				
USERPROF	244		X				
UTILMON	051		X	X			

TMON for MQSeries

The following table shows the *minimum* access level required to use each product function for TMON for MQSeries.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
ADVFUNCS	203		X				
CHANAUTH	124		X				
CNTLFILE	238		X				
CONSOLE	230		X	X			READ (or higher) lets users view console displays. UPDT (or higher) is required to enter commands on console displays.
DATADCTS	222		X				
DPAUTH	190		X				
EXCPDEF	130		X				
EXCPTDEF	154		X	X			READ (or higher) lets users view exception definitions. UPDT (or higher) is required to update exception definitions.
HELPMENU	235		X				
HLPFLDIR	236		X				
HLPFLDTL	237		X				
HLPMSDIR	253		X				
HLPSLDIR	205		X				
HLPSLDTL	206		X				
JOBSUMM	196		X				
LOGOSCRN	004		X				
MONCNTL	160		X				
MONINIT	163		X				
MSGAUTH	125		X				
NAMLAUTH	159		X				
OPENMAIN	217		X				

Function	**Code**	**Minimum Level Required**					**Notes**
		N	**R**	**U**	**C**	**A**	
PFKDEF	250		X	X		X	READ (or higher) lets users view function key settings. UPDT (or higher) lets users change function key settings for their user ID. ALTR lets users change function key settings for any user ID.
PROCAUTH	122		X				
PRODPSWD	202		X				
PROFDTL	246		X				
PRTAUTOF	093		X				
PRTAUTON	092		X				
PRTCLOSE	091		X				
PRTCMD	090		X				
PRTDFDSN	081		X	X			READ (or higher) lets users view print screen data set name definitions. UPDT (or higher) is required to update print screen SYSOUT definitions.
PRTDFSYS	082		X	X			READ (or higher) lets users view print screen data set name definitions. UPDT (or higher) is required to update print screen SYSOUT definitions.
PRTDFVTM	083		X				
PRTMENU	080		X				
PRTSTART	095			X			
PRTSTOP	094			X			
QAUTH	121		X				
QMGRAUTH	120		X				
QMGREVNT	135		X				
QMGROPTS	170		X				
QMGRSEC	157		X				
RMTPTDEF	209		X	X		X	READ (or higher) lets users view the remote session definitions. UPDT (or higher) lets users change remote session definitions and the SLU session ID prefix. ALTR lets users add and delete remote session definitions.
RMTPTSEL	207		X				
SECFUNCS	243		X				
SECFUNDF	245		X				
SECURITY	240		X	X			READ (or higher) lets users access the Security Definitions Menu. UPDT (or higher) is required to change the type of logon and function security used.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
SHIFTDEF	175		X	X			READ (or higher) lets users view the Shift Definition Facility. UPDT (or higher) is required to update shift definitions.
SHUTDOWN	003		X				
SIGNON	001		X				
STGCAUTH	123		X				
STRGALTR	211		X				Works with the STRGNPRV and STRGPRV functions. To alter private storage, READ access must be specified for STRGALTR and UPDT must be specified for STRGPRV. To alter nonprivate storage, READ access must be specified for STRGALTR and UPDT must be specified for both STRGPRV and STRGNPRV.
STRGDSPY	137		X				Works with the STRGNPRV and STRGPRV functions. To display private storage, READ access must be specified for both STRGDSPY and STRGPRV. To display nonprivate storage, READ access must be specified for both STRGDSPY and STRGNPRV.
STRGNPRV	115		X	X			Works with the STRGDSPY, STRGALTR, and STRGPRV functions. To alter nonprivate storage, you must be authorized to alter private and nonprivate storage. See the above notes for the STRGDSPY and STRGALTR functions for the authorization required to display and alter nonprivate storage.
STRGPRV	116		X	X			Works with the STRGDSPY and STRGALTR functions. See the above notes on these functions for the authorization required to display and alter private storage.
THRDAUTH	156		X				
USERCMDS	208		X	X			READ (or higher) lets users view user command definitions. UPDT (or higher) lets users add and modify user command definitions.
USERDEF	242		X	X		X	READ (or higher) lets users view their own user ID definitions and passwords. UPDT (or higher) lets users review and update their own user ID definitions and passwords. ALTR lets users review and update any user ID definition and password.
USERDIR	241		X				
USERPROF	244		X				

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
UTILMENU	150		X				

TMON for MVS

The following table shows the *minimum* access level required to use each product function for TMON for MVS.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
ADVFUNCS	203		X				
CCWTRACE	142		X				
CNTLFILE	238		X				
CONSOLE	230		X	X			READ (or higher) lets users view console displays. UPDT (or higher) is required to enter commands on console displays.
CSMON	099		X				
CSMONDET	097		X	X			READ (or higher) lets users view the Common Monitor Storage Detail screen. UPDT (or higher) is required to free storage for a specified job name.
CSMONOPT	098		X				
DATADCTS	222		X				
DLYGRP	071		X				
DLYGRPG	072		X	X		X	READ (or higher) lets users view global workload delay definitions. UPDT (or higher) lets users modify an existing global workload delay definition. ALTR lets users add or delete a global workload delay definition.
DLYGRPU	073		X	X		X	READ (or higher) lets users view user workload delay definitions. UPDT (or higher) lets users modify an existing user workload delay definition. ALTR lets users add or delete a user workload delay definition.
DLYMNDET	074		X				
DLYMON	070		X				
EXCPTDEF	130		X	X			READ (or higher) lets users view exception definitions. UPDT (or higher) is required to update exception definitions.
GDCOPTS	079		X				
HELPMENU	235		X				

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
HLPFLDIR	236		X	X			READ (or higher) lets users view the Field-Level Help Directory screen. UPDT (or higher) is required to change the ACTIVE VERSION field on the Field-Level Help Directory screen.
HLPFLDTL	237		X				
HLPMSDIR	253		X	X			READ (or higher) lets users view the Message-Level Help Directory screen. UPDT (or higher) is required to change the ACTIVE VERSION field on the Message-Level Help Directory screen.
HLPSLDIR	205		X	X			READ (or higher) lets users view the Screen-Level Help Directory screen. UPDT (or higher) is required to change the ACTIVE VERSION field on the Screen-Level Help Directory screen.
HLPSLDTL	206		X				
IODVHIST	140		X				
IOMON	143		X				
IOPSTART	141		X				
LOGOSCRN	004		X				
MDFPRSM	176		X				
OPENMAIN	217		X				
PFKDEF	250		X	X		X	READ (or higher) lets users view function key settings. UPDT (or higher) lets users change function key settings for their user ID. ALTR lets users change function key settings for any user ID.
PROFDTL	246		X				
PRTAUTOF	093		X				
PRTAUTON	092		X				
PRTCLOSE	091		X				
PRTCMD	090		X				
PRTDFDSN	081		X	X			READ (or higher) lets users view print screen data set name definitions. UPDT (or higher) is required to update print screen data set name definitions.
PRTDFSYS	082		X	X			READ (or higher) lets users view print screen SYSOUT definitions. UPDT (or higher) is required to update print screen SYSOUT definitions.
PRTDFVTM	083		X				
PRTMENU	080		X				
PRTSTART	095			X			

Function	**Code**	**Minimum Level Required**					**Notes**
		N	**R**	**U**	**C**	**A**	
PRTSTOP	094			X			
RMTPTDEF	209		X	X		X	READ (or higher) lets users view the remote session definitions. UPDT (or higher) lets users change remote session definitions and the SLU session ID prefix. ALTR lets users add and delete remote session definitions.
RMTPTSEL	207		X				
SECFUNCS	243		X				
SECFUNDF	245		X				
SECURITY	240		X	X			READ (or higher) lets users access the Security Definitions Menu. UPDT (or higher) is required to change the type of logon and function security used.
SHIFTDEF	177		X	X			READ (or higher) lets users view the Shift Definition Facility. UPDT (or higher) is required to update shift definitions.
SHUTDOWN	003		X				
SIGNON	001		X				
STORTCBS	221		X				
STORTIOT	220		X				
STRGALTR	211		X				Works with the STRGNPRV and STRGPRV functions. To alter private storage, READ access must be specified for STRGALTR and UPDT must be specified for STRGPRV. To alter nonprivate storage, READ access must be specified for STRGALTR and UPDT must be specified for both STRGPRV and STRGNPRV.
STRGDSPY	137		X				Works with the STRGNPRV and STRGPRV functions. To display private storage, READ access must be specified for both STRGDSPY and STRGPRV. To display nonprivate storage, READ access must be specified for both STRGDSPY and STRGNPRV.
STRGNPRV	115		X	X			Works with the STRGDSPY, STRGALTR, and STRGPRV functions. To alter nonprivate storage, you must be authorized to alter private and nonprivate storage. See the above notes for the STRGDSPY and STRGALTR functions for the authorization required to display and alter nonprivate storage.

Function	Code	Minimum Level Required					Notes
		N	R	U	C	A	
STRGPRV	116		X	X			Works with the STRGDSPY and STRGALTR functions. See the above notes on these functions for the authorization required to display and alter private storage.
SVCDUPD	180			X			
SYSADM	178		X				
USERCMDS	208		X	X			READ (or higher) lets users view user command definitions. UPDT (or higher) lets users add and modify user command definitions.
USERDEF	242		X	X		X	READ (or higher) lets users view their own user ID definitions and passwords. UPDT (or higher) lets users review and update their own user ID definitions and passwords. ALTR lets users review and update any user ID definition and password.
USERDIR	241		X				
USERPROF	244		X				
UTILAPFL	155		X	X			READ (or higher) lets users browse the APF list. UPDT (or higher) is required to add, modify, and delete modules in the APF list.
UTILASMB	169		X				
UTILDASD	153		X				
UTILDDSL	158		X				
UTILDSNI	175		X				
UTILDSNU	174		X				
UTILFSPC	159		X				
UTILIOSB	170		X				
UTILJOBB	171		X				
UTILJOBS	154		X				
UTILJPGN	165		X				
UTILJTRM	164		X	X	X	X	READ (or higher) lets users access a utility. UPDT (or higher) is required to cancel a job. CNTL (or higher) is required to force a job. ALTR is required to kill a job.
UTILLNKL	157		X	X			READ lets users browse the LNKLST Utility screen. UPDT (or higher) is required to add, modify, or delete the LNKLST.
UTILLPAL	156		X	X			READ (or higher) lets users browse the LPA/Nucleus Utility screen. UPDT (or higher) is required to make modifications.
UTILMENU	150		X				
UTILMSTG	152		X				
UTILMVSB	166		X				

Function	**Code**	**Minimum Level Required**					**Notes**
		N	**R**	**U**	**C**	**A**	
UTILSRMB	167		X				
UTILSSVC	151		X				
UTILSWAP	163		X				
UTILVMNT	162		X				
UTILVOLU	173		X				
UTILVSMB	168		X				
WKLDDEF	179		X	X			READ (or higher) lets users view workload definitions. UPDT (or higher) is required to update and activate definitions.
XCFMON	096		X				

Chapter 3: Landmark Product Communication

A performance problem in any address space in your network can affect performance throughout the system. The ability to monitor the complete system enables you to locate and solve system problems quickly and easily. You can use Landmark product communication to define a network between products and monitor address spaces anywhere in the network.

The following *PerformanceWorks* MVS products support Landmark product communication.

- TMON for CICS/ESA
- TMON for CICS/MVS
- TMON for DB2
- TMON for DBCTL
- TMON for MQSeries
- TMON for MVS

A product you want to access that exists in the same processor complex is called a *local product*. Its VTAM applid is a *local applid*. A product you want to access that exists in a different processor complex is called a *remote product*. Its VTAM applid is a *remote applid*. These terms are used throughout this chapter.

Access Methods

Landmark product communication consists of three types of interproduct communication: explicit pass-through, implicit pass-through, and NaviGate.

Explicit and Implicit Pass-Through

You can access another product anywhere in the network, regardless of which processor complex it resides in, using one of the pass-through connections.

Explicit pass-through is product-to-product communication initiated by the user. It can occur between products in the same or different processor complexes.

Implicit pass-through is product-to-product communication initiated automatically by the system. It occurs only between address spaces of the same product and can occur between products in the same or in different processor complexes.

- TMON for CICS has implicit pass-through connections to other TMON for CICS products on any processor complex.
- TMON for DB2 has implicit pass-through connections to other TMON for DB2 products on any processor complex.

- TMON for DBCTL has implicit pass-through connections to other TMON for DBCTL products on any processor complex.
- TMON for MQSeries has implicit pass-through connections to other TMON for MQSeries products on any processor complex.
- TMON for MVS has implicit pass-through connections to other TMON for MVS products on any processor complex.

Each of these products also has explicit connections to any other Landmark *PerformanceWorks* MVS product on any processor complex.

NaviGate

You can access another product in the same processor complex through one of many connection points using NaviGate. *NaviGate* is smart product-to-product communication initiated automatically by the system when you cursor-select a field that has a built-in connection to another product in the same processor complex. These connections help you diagnose problems by automatically transferring you to useful screens in other products.

Connections

The following table shows which Landmark *PerformanceWorks* MVS product releases have NaviGate connections to each other. A check (✔) indicates that a NaviGate connection exists; a blank indicates that no connection exists. A complete list of NaviGate connection points for each Landmark *PerformanceWorks* MVS product can be found in "Using NaviGate," later in this chapter.

Connections From:		**To:**									
		TMON for CICS			**TMON for DB2**		**TMON for DBCTL**	**TMON for MQSeries**		**TMON for MVS**	
Product	**Rel**	**8.3**	**1.5**	**2.0**	**3.1**	**3.2**	**1.0**	**1.0**	**1.1**	**1.3**	**2.0**
TMON for CICS/ESA	1.5				✔	✔				✔	✔
	2.0				✔	✔	✔		✔	✔	✔
TMON for CICS/MVS	8.3				✔	✔				✔	✔
TMON for DB2	3.1	✔	✔	✔	✔	✔				✔	✔
	3.2	✔	✔	✔	✔	✔				✔	✔
TMON for DBCTL	1.0			✔							✔
TMON for MQSeries	1.0			✔							✔
	1.1			✔							✔
TMON for MVS	1.3	✔	✔	✔	✔	✔					
	2.0	✔	✔	✔	✔	✔					

Error Messages

You may receive error messages from a Landmark *PerformanceWorks* MVS product you are trying to access using Landmark product communication. Usually this happens when an error occurs during the attempt to access the product. For help with these messages, refer to the messages and codes manual for the appropriate product.

Setting Up Landmark Product Communication

Before you can use Landmark product communication with any of the Landmark *PerformanceWorks* MVS products, you must complete these steps. (Each step is described in more detail following the checklist.)

□ **Step 1.** Verify that all local VTAM applids are installed.

□ **Step 2.** Identify all product session applids to be defined.

□ **Step 3.** Set up cross-domain communications to support remote applids.

□ **Step 4.** Verify cross-domain communications.

□ **Step 5.** Define additional SLUs to VTAM on the local processor complex.

□ **Step 6.** Set up network requirements for non-SNA terminals.

□ **Step 7.** Identify the applid of the primary session of each product.

□ **Step 8.** Adjust the local SLU session ID prefix and all the session definitions.

□ **Step 9.** Check the security definitions on all systems.

□ **Step 10.** Verify that the correct product releases are installed.

Step 1

Verify that all local VTAM applids are installed.

For each CPU in your system, verify that all local VTAM applids are defined and that the appropriate products are installed. Local applids are the applids of products installed on the same CPU. Local applids should be defined during product installation. Refer to *PerformanceWorks for MVS and OS/390 Installation Guide* to verify that this occurred.

Step 2

Identify all product session applids to be defined.

Identify all product session applids (local and remote) to be defined to the local processor complex. Use a table in the form shown below to list all the product applids you want to be able to access from the products in your local processor complex.

For example, you might need the following two remote applids: TMDBCHI (a TMON for DB2 applid on VTAM2 in Chicago) and TMONPGH (a TMON for CICS applid on VTAM3 in Pittsburgh).

Product	Applid	System

Step 3

Set up cross-domain communications to support remote applids.

Set up cross-domain communications to support each of the remote applids listed in Step 2. Use adjacent system services control point (SSCP) tables, dynamic cross-domain resource (CDRSC) definitions, or hard-coded CDRSC definitions. For complete information on customizing VTAM, read IBM’s *VTAM Installation & Resource Definition*.

You can use the CDRM definition in SYS1.VTAMLST to set up dynamic CDRSC definitions. The CDRDYN=YES and CDRSC=OPT parameters in the definition must be set up on the local processor complex and all the remote processor complexes. In addition, you must define each of the remote applids to the local VTAM applid. The example below shows the definitions for remote applids TMONCHI, TMONBOS, TMONNYC, and TMONPGH. VTAM2 and VTAM3 are sample CDRM definition names for VTAM applids running on remote processor complexes. These definitions would be created in SYS1.VTAMLST on VTAM1.

```
VTAM2    CDRM   CDRDYN=YES,CDRSC=OPT
TMONCHI  CDRSC  CDRM=VTAM2,ISTATUS=ACTIVE
TMONBOS  CDRSC  CDRM=VTAM2,ISTATUS=ACTIVE
TMONNYC  CDRSC  CDRM=VTAM2,ISTATUS=ACTIVE
VTAM3    CDRM   CDRDYN=YES,CDRSC=OPT
TMONPGH  CDRSC  CDRM=VTAM3,ISTATUS=ACTIVE
```

Step 4

Verify cross-domain communications.

Using the remote applids in the list you created in Step 2, verify cross-domain communications by trying to log onto each of the remote product sessions from your local VTAM logon screen.

Step 5

Define additional SLUs to VTAM on the local processor complex.

If you did not do this during product installation, define additional secondary logical units (SLUs) to VTAM on the local processor complex using VTAM VBUILD and APPL macros. Create a separate SYS1.VTAMLST member to store these SLU definitions. For complete information on customizing VTAM, read IBM’s *VTAM Installation & Resource Definition*.

To determine how many SLUs to define, use the following formula:

$$number\text{–}remote\text{–}users \times number\text{–}remote\text{–}sessions = total\text{–}SLUs$$

You should define a minimum of 10 SLUs. A maximum of 999 SLUs can be defined.

For TMON for CICS, you need to define one applid for:

- Each group of CICS jobs on the Job Selection List screen from a remote TMON for CICS
- Each pass-through session you expect to need
- Each remote TMON for CICS displayed by the Performance Monitor
- Each Activity Monitor display of a transaction using intersystem communication (ISC)
- Each concurrent attempt to cancel an interval control element (ICE) or automatic initiate descriptor (AID) in CICS.

Note The number of SLUs you define should match the setting in the SLUCOUNT startup parameter, which controls the number of SLUs the Landmark *PerformanceWorks* MVS product attempts to access at a given time.

You can specify the SLUCOUNT parameter in the startup parameter member of your product. If you do not specify it, the number of SLUs defaults to 123.

The following table indicates the SLUCOUNT startup parameter for each Landmark *PerformanceWorks* MVS product.

Product	**Description**
TMON for CICS/ESA	Specify the SLUCOUNT startup parameter in member TCEPARM of the data set identified by ddname TMONPRMS in the TMON for CICS/ESA startup JCL.
TMON for CICS/MVS	Specify the SLUCOUNT startup parameter in member TMON8PRM of the data set identified by ddname TMONPRMS in the TMON for CICS/MVS startup JCL.
TMON for DB2	Specify the SLUCOUNT startup parameter in member TDBPARM of the data set identified by ddname TMDBPRMS in the TMON for DB2 startup JCL.
TMON for DBCTL	Specify the SLUCOUNT startup parameter in member TDBCPRMS of the data set identified by ddname TDBCPRMS in the TMON for DBCTL startup JCL.

Product	Description
TMON for MQSeries	Specify the SLUCOUNT startup parameter in member TMQSPARM of the data set identified by ddname TMQSPRMS in the TMON for MQSeries startup JCL.
TMON for MVS	Specify the SLUCOUNT startup parameter in member TMVSPARM of the data set identified by ddname TMVSPRMS in the TMON for MVS startup JCL.

Use the following template when coding your SLU definitions. A sample of an SLU definition can be found in member TCEVTAM (TMON for CICS/ESA), TMON8VTM (TMON for CICS/MVS), TMDBVTAM (TMON for DB2), TDBCVTAM (TMON for DBCTL), TMQSVTAM (TMON for MQSeries), or TMONAPPL (TMON for MVS) in the sample JCL library.

```
label         VBUILD TYPE=APPL
sluidnnn      APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,
              DLOGMOD=SLUTYPE2,MODTAB=LMRKMTB
sluidnnn      APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,
              DLOGMOD=SLUTYPE2,MODTAB=LMRKMTB
sluidnnn      APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,
              DLOGMOD=SLUTYPE2,MODTAB=LMRKMTB
```

“label” indicates the SYS1.VTAMLST member name used to store the SLU definitions and “sluidnnn” indicates the name of the SLU you are defining. The “sluid” part of the name is the SLU session ID prefix and must be a constant string from one to five characters long. The “nnn” part must be a number starting with 001 and sequentially increment with each APPL macro.

For example, if you use TMON as a session ID prefix and define the following SLUs to VTAM, only TMON001, TMON002, and TMON003 are used. TMON006 is not used because TMON004 and TMON005 are missing.

```
TMON001       APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,
              DLOGMOD=SLUTYPE2,MODTAB=LMRKMTB
TMON002       APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,
              DLOGMOD=SLUTYPE2,MMODTAB=LMRKMTB
TMON003       APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,
              DLOGMOD=SLUTYPE2,MODTAB=LMRKMTB
TMON006       APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,
              DLOGMOD=SLUTYPE2,MODTAB=LMRKMTB
```

You *must* use different SLU prefixes on different processor complexes and for different products running in the same processor complex.

VTAM Logon Mode Table Considerations

The DLOGMOD parameter of the APPL macro specifies the name of the entry in the VTAM logon mode table that contains the parameters used in a session. If you have SNA type-2 logical units and your logon mode table is working, continue to use it. If you have problems, however, create your own logon mode table with the following entry. The following sample of a logon mode table can be found in member LMRKMTB in the Strategic Services sample JCL library.

```
LMRKMTB MODETAB
        MODEENT LOGMODE=SLUTYPE2,FMPROF=X’03’,TSPROF=X’03’,
        PRIPROT=X’B1’,SECPROT=X’90’,COMPROT=X’3080’,
             RUSIZES=X’87C7’,PSERVIC=X’028000000000185018507F00
             MODEEND
        END
```

In this entry, the name defined by the LOGMODE operand (SLUTYPE2 in the sample LMRKMTB above) can be any 8-character name. The FMPROF, TSPROF, PRIPROT, SECPROT, and COMPROT operand settings are fixed by the SNA architecture to support SNA type-2 logical units. The RUSIZES operand specifies the maximum length of data that the primary logical unit (PLU) and the secondary logical unit (SLU) can send. These first two hexadecimal digits define the size for the SLU; the second two hexadecimal digits define the size for the PLU. The actual sizes designated by a setting of RUSIZES=X’87C7’ are 1024 bytes for the SLU (’87’ = 8 times 2 to the seventh power) and 1536 bytes for the PLU (’C7’ = 12 times 2 to the seventh power).

Finally, the PSERVIC operand defines the presentation services for the logical unit. The PSERVIC setting must be as shown above for the SLU sessions to properly function as SNA type-2 logical units. The values are defined in the section on BIND command session parameters in IBM’s *3174 Subsystem Control Unit Functional Description*.

If you decide to use the sample logon mode table, LMRKMTB, you must assemble it to some library that you have concatenated to SYS1.VTAMLIB in your VTAM startup procedure.

If you define your own logon mode table or use LMRKMTB, you must supply the name of the logon mode table by adding the MODTAB option to your APPL macro. You also must change “dlogmod” in your SLU definitions to reflect the correct LOGMODE entry. The following example shows two SLU definitions in member SAMPLE. TMDB001 uses IBM default parameters provided by SNX32702; TMDB002 uses the parameters specified by the SLUTYPE2 entry in LMRKMTB.

```
SAMPLE  VBUILD TYPE=APPL
TMDB001 APPL AUTH=(ACQ,PASS,VPACE),VPACING=5,EAS=1,DLOGMOD=SNX32702
TMDB002 APPL AUTH=(ACQ,PASS,VPACE),MODTAB=LMRKMTB,VPACING=5,EAS=1,
             DLOGMOD=SLUTYPE2
```

Step 6

Set up network requirements for non-SNA terminals.

This section primarily applies if you intend to log onto the Landmark *PerformanceWorks* MVS product from a non-SNA terminal that either is remote or will be in cross-domain session with the product. It also may apply to SNA sessions if the outbound RUSIZE in the BIND is very large or is not specified. If none of these conditions apply to your use of the product, you can skip this section.

Landmark *PerformanceWorks* MVS products sometimes transmit very large outbound data streams, especially if the terminal is a color terminal with a large screen (a 3270 model 3, 4, or 5). Since non-SNA terminals do not support chaining, the entire screen must be sent in one transmission. In some networks, the large size of these transmissions can be a problem for the network.

To support the largest possible transmission, the MAXDATA parameter on any Network Control Program (NCP) between the terminal and the host in which the product is running should be set to at least 14,000 bytes. MAXDATA is the maximum message size the NCP will accept. Most screens are much smaller than 14,000, but this is a safe value for MAXDATA that no product screen should ever exceed. If none of your terminals use color, you may be able to run with a smaller value.

MAXDATA should not exceed the product of MAXBFRU and UNITSZ.

If you change MAXDATA, be aware that its value is constrained by the values of the MAXBFRU parameter (the number of host buffers VTAM uses to communicate with NCP) and the UNITSZ parameter (the size of each host buffer). The MAXDATA value should not exceed the product of MAXBFRU and UNITSZ.

Step 7

Identify the applid of the primary session of each product.

Identify the applid of the primary session for each product using Landmark product communication on your system. *Primary sessions* are the product sessions accessed when you enter the JUMP command to explicitly access another product. Each unique Landmark *PerformanceWorks* MVS product on your system should have at least one primary session. More than one primary session can be defined for each. When more than one primary session is defined and a JUMP command is issued, the first primary session found active is used to satisfy the JUMP request.

Primary sessions are actually defined on the Remote Session Definition screen in Step 8, but you should know what the applid of the primary session is for each product before you start Step 8. If an address space is not the primary session, it is called a *secondary session*.

If no primary session is active when the JUMP command is issued, the first secondary session found active is used to satisfy the JUMP request.

Step 8

Adjust the local SLU session ID prefix and all the session definitions.

Use the Remote Sessions Directory and Remote Session Definition screens to adjust the local SLU session ID prefix and all the session definitions of Landmark *PerformanceWorks* MVS products in the network that you want to be able to access. The following table indicates how to access these screens from each Landmark product.

Product	To Gain Access:
TMON for CICS/ESA	Enter *=10.6* on the command line of any TMON for CICS/ESA screen.
TMON for CICS/MVS	Enter *=10.8* on the command line of any TMON for CICS/MVS screen.
TMON for DB2	Enter *=9.5.1* on the command line of any TMON for DB2 screen.
TMON for DBCTL	Enter *=9.7* on the command line of any TMON for DBCTL screen.
TMON for MQSeries	Enter *=9.5* on the command line of any TMON for MQSeries screen.
TMON for MVS	Enter *=S.1* on the command line of any TMON for MVS screen.

All remote sessions screens are described at the end of this chapter.

Step 9

Check the security definitions on all systems.

You should use the same security method (External Security, Internal Security, or User Exit Security) for all Landmark product systems that support Landmark product communication. If you choose to mix security methods, you must ensure that the user IDs and passwords are identical in all product systems. Security must be activated in each product, regardless of the method you choose.

When explicit pass-through, implicit pass-through, or NaviGate communication occurs, a logon to the other product occurs. If a user ID is not authorized to use a product it has tried to access using implicit pass-through or NaviGate, the product connection does not occur. If a user ID is not authorized to use a product it has tried to log onto using explicit pass-through, the product logon screen is displayed. Users then can select an alternate user ID and password for explicit pass-through.

If you choose to use Internal Security for all Landmark products, ensure that the user IDs and passwords you want to use Landmark product communication are identical for all product sessions.

If you choose to use External Security for all Landmark products, ensure that all user IDs that you want to use Landmark product communication have access to the appropriate resource rules for your external security package.

For all security types, verify that the user IDs you want to use Landmark product communication are authorized to use functions in the Landmark product communication network. Read the chapter on Landmark product communication in each product's documentation to identify that product's connection points and the functions it accesses by linking to other products.

Step 10

Verify that the correct product releases are installed.

Verify that you have the correct releases of all products installed. Otherwise, Landmark product communication will not operate correctly.

Using Explicit Pass-Through

Explicit pass-through is product-to-product communication initiated by the user. This communication method lets you:

- Access products in your network for online monitoring and analysis
- Access a specific product applid
- Quickly log onto another product without having to log off of the base product
- Quickly sign onto a CICS address space without having to sign off of TMON for CICS (applies only to TMON for CICS/ESA and TMON for CICS/MVS).

Explicit pass-through can occur between products in the same or different processor complexes.

Methods of Explicit Access

You can explicitly access another Landmark product in one of three ways. You can:

- Issue the JUMP command.
- Issue the REMOTE command.
- Cursor-select an applid on the Remote Sessions Logon screen, described later in this chapter. (For TMON for CICS, you must access this screen through the Pass-Through Sessions menu. If you are using TMON for CICS documentation, the menu is described later in this chapter.)

If you try to access a product that is not active, an error message is displayed.

TMON for CICS users

With TMON for CICS, you also can pass-through to CICS and execute transactions that help you determine the cause of a system problem. You do this using the Pass-Through Session to CICS screen, described later in this chapter, if you are using TMON for CICS documentation.

JUMP Command

Use the JUMP command to access the primary applid of a Landmark product. You identified primary applids in Step 7 and defined them in Step 8 of “Setting Up Landmark Product Communication,” earlier in this chapter.

The syntax of the JUMP command is:

```
JUMP=code
```

where “code” is one of the following product identifiers.

Product	Identifier
TMON for CICS	TMONCICS
TMON for DB2	TMONDB2
TMON for DBCTL	TMONDBC
TMON for MQSeries	TMONMQ
TMON for MVS	TMONMVS

REMOTE Command

Use the REMOTE command to access a specific applid of a Landmark product. The syntax of the REMOTE command is:

```
REMOTE=applid
```

where “applid” is the applid of the product you want to access.

TMON for CICS/ESA example

For example, if you want to access TMON for CICS/ESA applid TCECHI, enter *REMOTE=TCECHI*.

Usage Notes

A product accessed explicitly operates in exactly the same manner as if you log onto it directly. The only difference is that explicit access automatically logs you onto the product and skips the product logon screen. You can perform all the product functions on the explicitly accessed product that your user ID can perform when you log onto the product directly. Any security limitations set up for your user ID when you access the product directly are active when you access the product explicitly. If your user ID is not authorized to use the explicitly accessed product, the product session’s logon screen is displayed. You then can select an alternate user ID and password to complete explicit pass-through.

You may receive error messages from a Landmark product you are trying to access explicitly. Usually this happens when an error occurs during the access attempt. For help with these messages, refer to the messages and codes manual for the appropriate product.

When you log off of a product you accessed explicitly from one of the Landmark *PerformanceWorks* MVS products, you return to the same Landmark product. For example, when you log off of a product you accessed explicitly from TMON for DBCTL, you return to TMON for DBCTL.

Using Implicit Pass-Through

Implicit access is product-to-product communication initiated automatically by the system. It occurs only between address spaces of the same product (for example, TMON for CICS to TMON for CICS) and can occur between products in the same or different processor complexes. It does not occur between different products (for example, TMON for CICS to TMON for MVS).

Implicit access is initiated differently for Landmark *PerformanceWorks* MVS products. The following table indicates how to initiate implicit access for each product.

Product	Implicit Access
TMON for CICS	Initiated by selecting a remote CICS address space from the Job Selection List screen and a Primary Selection Menu option other than PERFORMANCE MONITOR, PASS-THROUGH SESSIONS, or SYSTEM ADMINISTRATION. This allows you to monitor the performance of another CICS address space. To ensure that a remote CICS address space appears on the Job Selection List screen, the following conditions must be met: The remote Cross System Monitor applid must be defined on the Remote Sessions Directory and CICS Job Definitions screens, and JOBSCAN CONTROL=N must be specified on the CICS Job Definitions screen.
TMON for DB2	Initiated by selecting a remote DB2 subsystem on the DB2 Subsystem Selection screen and a Primary Menu option other than MONITOR CONTROLS or ADVANCED FUNCTIONS. You also can invoke implicit access in TMON for DB2 when you cursor-select a data field associated with a remote DB2 subsystem from the DB2 Subsystem Selection screen.
TMON for DBCTL	Initiated by selecting a remote DBCTL subsystem on the DBCTL Subsystem Selection screen and a Primary Menu option other than MONITOR CONTROLS or ADVANCED FUNCTIONS. You also can invoke implicit access in TMON for DBCTL when you cursor-select a data field associated with a remote DBCTL subsystem from the DBCTL Subsystem Selection screen.
TMON for MQSeries	Initiated by selecting a queue manager being monitored by a TMON for MQSeries running on another MVS image and a Primary Menu option other than MONITOR CONTROLS or ADVANCED FUNCTIONS.
TMON for MVS	Initiated in only one instance: when you select an MVS system on another processor complex on the System Selection Menu.

Usage Notes

Any security limitations set up for your user ID when you access the product directly are active when you access the product implicitly. If your user ID is not authorized to use the product, implicit access does not occur. If you are to be able to access other Landmark *PerformanceWorks* MVS systems remotely, their security systems must be the same.

You may receive error messages from a Landmark product you are trying to access implicitly. Usually this happens when an error occurs during the access attempt. For help with these messages, refer to the messages and codes manual for the appropriate product.

When you log off of a product you accessed implicitly from one of the Landmark *PerformanceWorks* MVS products, you return to the same Landmark product. For example, when you log off of a product you accessed implicitly from TMON for MQSeries, you return to TMON for MQSeries.

Using NaviGate

NaviGate is product-to-product communication initiated automatically by the system when you cursor-select a field that has a built-in connection to another product. These connections help you diagnose problems by automatically transferring you to useful screens in other products.

A compass symbol to the left of a field name indicates that you can cursor-select that field to access another Landmark product.

NaviGate connections occur between products in the same processor complex. When you invoke a NaviGate connection in a processor complex, the other product you access also exists in the same processor complex. If you implicitly or explicitly access a product in a different (remote) processor complex and then invoke a NaviGate connection, the NaviGate connection is made in the remote processor complex.

If you try to invoke a NaviGate connection for a product that is not active, the connection attempt fails. The screen is refreshed, but no message is issued.

TMON for CICS/ESA

The following table shows where the NaviGate connections to other Landmark *PerformanceWorks* MVS products occur in TMON for CICS/ESA.

From this screen:	Cursor-select:	To access this screen:
CICS DBCTL Summary	CONNECTION STATUS field	TMON for DBCTL Current System Statistics

From this screen:	Cursor-select:	To access this screen:
CICS MQSeries Summary	MQ_SERIES QMGR NAME field (available for only CICS Transaction Server 1.1 and above)	TMON for MQSeries Connection Summary
CICS Storage Summary	REGION-SIZE field	TMON for MVS Private Storage
Detail Transaction Data	LOC UOW field	TMON for DBCTL PSB Detail
	UOW field	TMON for DB2 Online Analysis Thread Summary
FCT/VSAM Statistics (when summarized by file/DB on the File/DB Activity Selection Menu)	device ID in the VOLUME field	TMON for MVS Device Detail Selection Menu
File/DB Activity Display (when summarized by file/DB on the File/DB Activity Selection Menu)	DL/I file in the FILE ID field	TMON for DBCTL Database Management Block Statistics
File/DB Activity Display (when summarized by VOLSER on the File/DB Activity Selection Menu)	volume serial number of a volume in the VOLSER field	TMON for MVS Device Detail Selection Menu
MVS Contention Monitor Menu	Option 1 (ACTIVE JOB SUMMARY)	TMON for MVS Job Execution Monitor
MVS Contention Monitor Menu	Option 2 (DETAILED ANALYSIS)	TMON for MVS Job Delay Analysis
System Control Blocks	CSAM field	TMON for MVS Common Storage Summary
System Control Blocks	CSAP field	TMON for MVS CSA Subpool Detail
System Control Blocks	SQA field	TMON for MVS SQA Subpool Detail
System Control Blocks	VSSM field	TMON for MVS Virtual Storage Static Map
Task Details	DB2 field	TMON for DB2 Current Thread Detail
	DBCTL field	TMON for DBCTL Thread Detail
	MQS field	TMON for MQSeries Thread Summary

TMON for CICS/MVS

The following table shows where the NaviGate connections to other Landmark *PerformanceWorks* MVS products occur in TMON for CICS / MVS.

From this screen:	Cursor-select:	To access this screen:
Current Task Execution	DB2 THREAD field	TMON for DB2 Activity Monitor Thread Detail
FCT/VSAM Statistics (when summarized by file/DB on the File/DB Activity Selection Menu)	device ID in the VOLUME field	TMON for MVS Device Detail Selection Menu
File/DB Activity Display (when summarized by VOLSER on the File/DB Activity Selection Menu)	volume serial number in the VOLSER field	TMON for MVS Device Detail Selection Menu
MVS Contention Monitor Menu	Option 1 (ACTIVE JOB SUMMARY)	TMON for MVS Job Execution Monitor
MVS Contention Monitor Menu	Option 2 (DETAILED ANALYSIS)	TMON for MVS Job Delay Analysis

From this screen:	Cursor-select:	To access this screen:
Sequential File Statistics (when summarized by file/DB on the File/DB Activity Selection Menu)	file number in the FILE# field	TMON for MVS Device Detail Selection Menu

TMON for DB2

The following table shows where the NaviGate connections to other Landmark *PerformanceWorks* MVS products occur in TMON for DB2.

From this screen:	Cursor-select:	To access this screen:
Active Log Data Set Statistics	VOLSER field	TMON for MVS Device Detail Selection Menu
Current Thread Connection Summary	CONN ID field	TMON for CICS Performance Graphs Target Selection
Current Thread Detail	CICS TKN field	TMON for CICS/ESA Active Tasks
Current Thread Summary (Long or Short)	CONN ID field	TMON for CICS/ESA Active Tasks or TMON for CICS/MVS Combined Task List
DB2 Resource Usage - Allocated Data Sets	VOLSER field	TMON for MVS Device Detail Selection Menu
DBRM/Package List Summary	package in the DBRM/PACKAGE field that resides in a DB2 subsystem monitored by a different TMON for DB2 address space	DB2 EXPLAIN Utility for the remote TMON for DB2
Online Analysis Thread Detail	CICS TKN field	TMON for CICS/ESA Detail Transaction Data or TMON for CICS/MVS Full Statistics Page 1
Page Set Detail Data Set Listing	VOLSER field	TMON for MVS Device Detail Selection Menu
Primary Menu	Option 4 (ACTIVE JOB SUMMARY)	TMON for MVS Job Execution Monitor
SYSIBM.SYSLOCATIONS	DB2 location in the #DB2 LOCATIONS field that is not the local DB2 system	DB2 EXPLAIN Utility for the remote TMON for DB2

TMON for DBCTL

The following table shows where the NaviGate connections to other Landmark *PerformanceWorks* MVS products occur in TMON for DBCTL.

From this screen:	Cursor-select:	To access this screen:
BMP Thread Detail	JOB NAME field	TMON for MVS Job Execution Monitor
Current Thread Connection Summary	CONN_ID field	TMON for CICS/ESA Active Tasks
	NBR THDS field	TMON for CICS/ESA CICS DBCTL Summary
Current Thread Summary (Long or Short)	CONN-ID field	TMON for CICS/ESA Active Tasks
Data Set Information Display	VOL field	TMON for MVS Device Detail Selection Menu

From this screen:	Cursor-select:	To access this screen:
Primary Menu	Option 4 (ACTIVE JOB SUMMARY)	TMON for MVS Job Execution Monitor
PSB Detail	CICS TKN field	TMON for CICS/ESA Detail Transaction Data
Thread Detail	RECVRY TOKEN field	TMON for CICS/ESA Task Details
VSAM Data Set Information	VOLUME field	TMON for MVS Device Detail Selection Menu

TMON for MQSeries

The following table shows where the NaviGate connections to other Landmark *PerformanceWorks* MVS products occur in TMON for MQSeries.

From this screen:	Cursor-select:	To access this screen:
Active Log Data Set Statistics	VOLSER field	TMON for MVS Device Detail Selection Menu
Primary Menu	Option 5 (ACTIVE JOB SUMMARY)	TMON for MVS Job Execution Monitor
Thread Detail	CORRELATION field	TMON for CICS/ESA Task Details

TMON for MVS

The following table shows where the NaviGate connections to other Landmark *PerformanceWorks* MVS products occur in TMON for MVS.

From this screen:	Cursor-select:	To access this screen:
Job Detail Selection Menu	Option 11 (after cursor-selecting a CICS job name on the Job Execution Monitor screen)	TMON for CICS Primary Selection Menu
	Option 11 (after cursor-selecting a DB2 job name on the Job Execution Monitor screen)	TMON for DB2 Primary Menu

Usage Notes

When you connect to a second Landmark *PerformanceWorks* MVS product using NaviGate, you are transferred to a specific screen in the second product. This screen is called a *connection screen*. Ordinarily, you can use this screen exactly as if you had accessed it by logging onto the second product directly. The only exception is that when you enter the END command (or press the appropriate function key), you are transferred back to the initial product. In other words, you can enter commands and options that place you further (or deeper) into the second product, but you cannot access screens that would ordinarily be displayed earlier in the product than the connection screen.

Any security limitations set up for your user ID when you access the product directly are active when you access a second product using NaviGate. If your user ID is not authorized to use the second product, the NaviGate connection does not occur.

You may receive error messages from a Landmark product you are trying to access using NaviGate. Usually this happens when an error occurs during the access attempt. For help with these messages, refer to the messages and codes manual for the appropriate product.

When you log off of a product you accessed using a NaviGate connection from one of the Landmark *PerformanceWorks* MVS products, you return to the same Landmark product. For example, when you log off of a product you accessed using a NaviGate connection from TMON for DB2, you return to TMON for DB2.

Accessing All Screens

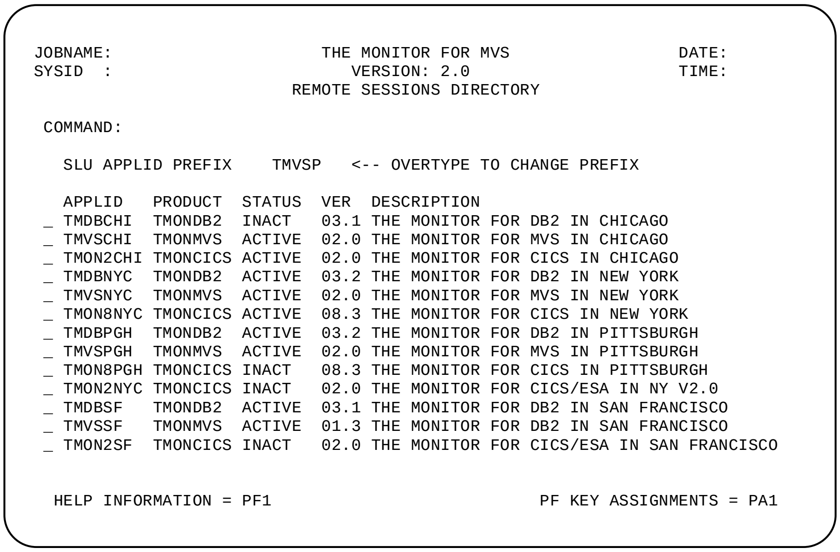
If you want to access a screen ordinarily displayed earlier in the product than the connection screen, enter the STAY command on the command line of the second product.

The syntax of the STAY command is:

```
STAY
```

Once you have entered the STAY command, you can access any screen in the product. Of course, any security limitations set up for your user ID are still in effect.

Remote Sessions Directory



```
JOBNAME:                     THE MONITOR FOR MVS                 DATE:
SYSID  :                        VERSION: 2.0                     TIME:
                            REMOTE SESSIONS DIRECTORY

 COMMAND:

   SLU APPLID PREFIX    TMVSP   <-- OVERTYPE TO CHANGE PREFIX

   APPLID   PRODUCT  STATUS  VER  DESCRIPTION
 _ TMDBCHI  TMONDB2  INACT   03.1 THE MONITOR FOR DB2 IN CHICAGO
 _ TMVSCHI  TMONMVS  ACTIVE  02.0 THE MONITOR FOR MVS IN CHICAGO
 _ TMON2CHI TMONCICS ACTIVE  02.0 THE MONITOR FOR CICS IN CHICAGO
 _ TMDBNYC  TMONDB2  ACTIVE  03.2 THE MONITOR FOR DB2 IN NEW YORK
 _ TMVSNYC  TMONMVS  ACTIVE  02.0 THE MONITOR FOR MVS IN NEW YORK
 _ TMON8NYC TMONCICS ACTIVE  08.3 THE MONITOR FOR CICS IN NEW YORK
 _ TMDBPGH  TMONDB2  ACTIVE  03.2 THE MONITOR FOR DB2 IN PITTSBURGH
 _ TMVSPGH  TMONMVS  ACTIVE  02.0 THE MONITOR FOR MVS IN PITTSBURGH
 _ TMON8PGH TMONCICS INACT   08.3 THE MONITOR FOR CICS IN PITTSBURGH
 _ TMON2NYC TMONCICS INACT   02.0 THE MONITOR FOR CICS/ESA IN NY V2.0
 _ TMDBSF   TMONDB2  ACTIVE  03.1 THE MONITOR FOR DB2 IN SAN FRANCISCO
 _ TMVSSF   TMONMVS  ACTIVE  01.3 THE MONITOR FOR DB2 IN SAN FRANCISCO
 _ TMON2SF  TMONCICS INACT   02.0 THE MONITOR FOR CICS/ESA IN SAN FRANCISCO


  HELP INFORMATION = PF1                        PF KEY ASSIGNMENTS = PA1
```

The Remote Sessions Directory screen lists all Landmark *PerformanceWorks* MVS products defined in your network and the current SLU session ID prefix. You can update the prefix on this screen. If you do, the prefix setting is saved in the control file. If you prefer to update the prefix temporarily (rather than in the control file), use the SLUPREFIX startup parameter instead. For more information on the SLUPREFIX startup parameter, refer to your Landmark product's installation completion instructions in *PerformanceWorks for MVS and OS/390 Installation Guide.*

If you want to add, update, or delete product sessions in the list, you must cursor-select a session. All session definitions are stored in your product's control file.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	**Action**	**Displays**
TMON for CICS/ESA	On the command line, enter *=10.1.6.*	Remote Sessions Directory
TMON for CICS/MVS	On the command line, enter *=10.1.8.*	Remote Sessions Directory
TMON for DB2	On the command line, enter *=9.5.1.*	Remote Sessions Directory
TMON for DBCTL	On the command line, enter *=9.7.1.*	Remote Sessions Directory
TMON for MQSeries	On the command line, enter *=9.5.1.*	Remote Sessions Directory
TMON for MVS	On the command line, enter *=S.1.*	Remote Sessions Directory

Primary Commands

Use the DOWN and UP commands to scroll through this screen. To learn about the various ways to scroll using these commands and for syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

➥ APPLID

Displays the applid of a Landmark product defined in the control file. All applids defined in the control file are shown.

Cursor-select an applid if you want to update or delete it or if you want to use it as a template for a new applid. The Remote Session Definition screen is displayed.

DESCRIPTION

Displays a brief description of the session definition.

PRODUCT

Displays the product for this session definition. The following table lists valid identifiers.

Identifier	Product
TMONCICS	TMON for CICS (CICS/ESA) and TMON for CICS (CICS/MVS)
TMONDB2	TMON for DB2
TMONDBC	TMON for DBCTL
TMONMQ	TMON for MQSeries
TMONMVS	TMON for MVS

SLU APPLID PREFIX

Shows the SLU session ID prefix, which is used to create the SLUs that are used to access Landmark products. The session ID prefix may be up to five characters long and must be unique across all products in your network. To change the SLU session ID prefix, tab to this field, change it, and press ENTER. When you change the SLU session ID prefix on this screen, the change is saved in the product control file. To change the session ID temporarily, use the SLUPREFIX startup parameter. For more information, refer to the installation completion instructions for your Landmark product in *PerformanceWorks for MVS and OS/390 Installation Guide.*

You *must* use different SLU prefixes on different processor complexes and for different products running in the same processor complex.

STATUS

Indicates the status of the Landmark product. The following table lists valid status indicators.

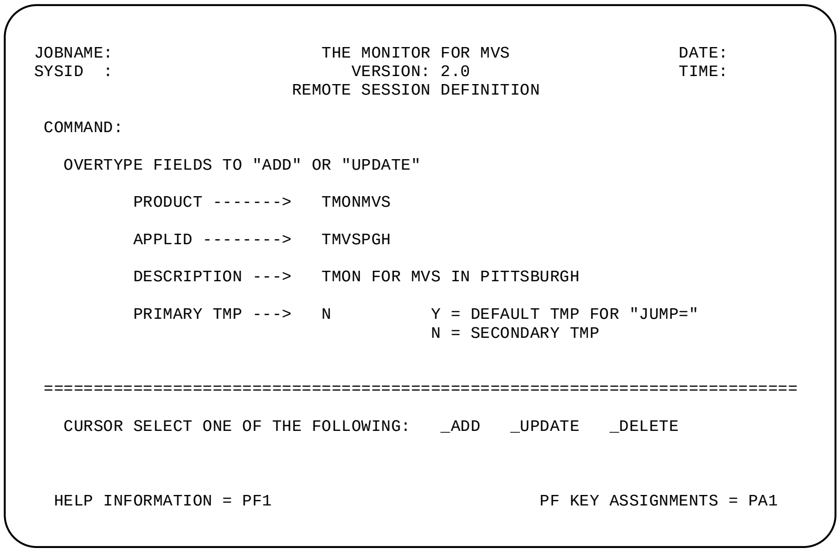
Status	Description
ACTIVE	The product is active.
INACT	The product is not active.
UNKNWN	The status of the product cannot be determined.

VER

Displays the version of the Landmark product. The value in the VER field is always zero unless both of the following conditions are met.

- The product session is active and can perform Landmark NaviGate functions (in other words, its modification level is correct).
- At least one Landmark product communication link has been made to the product session.

Remote Session Definition



```
JOBNAME:                     THE MONITOR FOR MVS                DATE:
SYSID  :                        VERSION: 2.0                    TIME:
                          REMOTE SESSION DEFINITION

 COMMAND:

   OVERTYPE FIELDS TO "ADD" OR "UPDATE"

          PRODUCT ------->   TMONMVS

          APPLID -------->   TMVSPGH

          DESCRIPTION --->   TMON FOR MVS IN PITTSBURGH

          PRIMARY TMP --->   N          Y = DEFAULT TMP FOR "JUMP="
                                        N = SECONDARY TMP

 ============================================================================

   CURSOR SELECT ONE OF THE FOLLOWING:   _ADD   _UPDATE   _DELETE


  HELP INFORMATION = PF1                           PF KEY ASSIGNMENTS = PA1
```

The Remote Session Definition screen lets you update or define your session definitions. You can add a new definition, or update or delete an existing one. This information includes the product ID, the applid, and the description of the session.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	Action	Displays
TMON for CICS/ESA	On the command line, enter *=10.1.6*.	Remote Sessions Directory
	Cursor-select an applid.	Remote Session Definition
TMON for CICS/MVS	On the command line, enter *=10.1.8*.	Remote Sessions Directory
	Cursor-select an applid.	Remote Session Definition
TMON for DB2	On the command line, enter *=9.5.1*.	Remote Sessions Directory
	Cursor-select an applid.	Remote Session Definition
TMON for DBCTL	On the command line, enter *=9.7.1*.	Remote Sessions Directory
	Cursor-select an applid.	Remote Session Definition
TMON for MQSeries	On the command line, enter *=9.5.1*.	Remote Sessions Directory
	Cursor-select an applid.	Remote Session Definition
TMON for MVS	On the command line, enter *=S.1*.	Remote Sessions Directory
	Cursor-select an applid.	Remote Session Definition

Primary Commands

Enter the following commands on the command line.

ADD

Adds a remote session definition to the control file. Type the appropriate information in the APPLID, DESCRIPTION, and PRODUCT fields to identify the new product session; then enter this command (or cursor-select the ADD field).

DELETE Deletes a remote session definition from the control file. You also can cursor-select the DELETE field to perform this function.

UPDATE Updates a remote session definition in the control file. Type over the information you want to change; then enter this command (or cursor-select the UPDATE field).

Use the DOWN and UP commands to scroll through this screen. To learn about the various ways to scroll using these commands and for syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

➥ ADD

Use this field as part of the procedure to add session definitions to the control file. Type appropriate information in the APPLID, DESCRIPTION, and PRODUCT fields to identify the new product session; then cursor-select this field to add the definition to the control file. You also can use the ADD command to perform this function.

APPLID

Shows the 1- to 8-character applid of a Landmark product.

➥ DELETE

Cursor-select this field to delete the session definition from the control file. Your product, however, must be re-cycled before you see the effects of the DELETE function. You also can use the DELETE command to perform this function.

DESCRIPTION

Displays a description of the product session. You can specify a maximum of 36 characters in the description.

PRIMARY TMP

Specifies whether this product session is the primary session for the Landmark product. *Primary sessions* are the product sessions accessed when you enter the JUMP command to explicitly access another Landmark product. More than one primary session can be defined for each unique Landmark product on your system. When more than one primary session is defined and a JUMP command is issued, the first primary session found active is used to satisfy the JUMP request.

The following table lists valid values.

Value	Description
N	Indicates that the product session is not the primary session

Value	Description
Y	Indicates that the product session is the primary session

PRODUCT

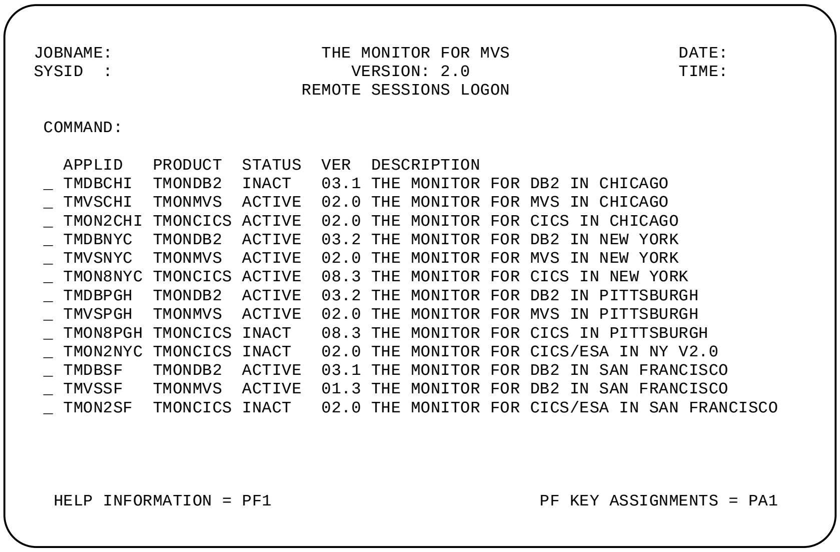
Shows the product for this session definition. The following table lists valid identifiers.

Identifier	Product
TMONCICS	TMON for CICS (CICS/ESA) and TMON for CICS (CICS/MVS)
TMONDB2	TMON for DB2
TMONDBC	TMON for DBCTL
TMONMQ	TMON for MQSeries
TMONMVS	TMON for MVS

➥ UPDATE

Use this field as part of the procedure to update session definitions in the control file. Type over the information you want to change; then cursor-select this field to update the session definition on the control file. You also can use the UPDATE command to perform this function.

Remote Sessions Logon



```
JOBNAME:                     THE MONITOR FOR MVS                DATE:
SYSID  :                        VERSION: 2.0                    TIME:
                              REMOTE SESSIONS LOGON

 COMMAND:

   APPLID   PRODUCT  STATUS  VER  DESCRIPTION
 _ TMDBCHI  TMONDB2  INACT   03.1 THE MONITOR FOR DB2 IN CHICAGO
 _ TMVSCHI  TMONMVS  ACTIVE  02.0 THE MONITOR FOR MVS IN CHICAGO
 _ TMON2CHI TMONCICS ACTIVE  02.0 THE MONITOR FOR CICS IN CHICAGO
 _ TMDBNYC  TMONDB2  ACTIVE  03.2 THE MONITOR FOR DB2 IN NEW YORK
 _ TMVSNYC  TMONMVS  ACTIVE  02.0 THE MONITOR FOR MVS IN NEW YORK
 _ TMON8NYC TMONCICS ACTIVE  08.3 THE MONITOR FOR CICS IN NEW YORK
 _ TMDBPGH  TMONDB2  ACTIVE  03.2 THE MONITOR FOR DB2 IN PITTSBURGH
 _ TMVSPGH  TMONMVS  ACTIVE  02.0 THE MONITOR FOR MVS IN PITTSBURGH
 _ TMON8PGH TMONCICS INACT   08.3 THE MONITOR FOR CICS IN PITTSBURGH
 _ TMON2NYC TMONCICS INACT   02.0 THE MONITOR FOR CICS/ESA IN NY V2.0
 _ TMDBSF   TMONDB2  ACTIVE  03.1 THE MONITOR FOR DB2 IN SAN FRANCISCO
 _ TMVSSF   TMONMVS  ACTIVE  01.3 THE MONITOR FOR DB2 IN SAN FRANCISCO
 _ TMON2SF  TMONCICS INACT   02.0 THE MONITOR FOR CICS/ESA IN SAN FRANCISCO



  HELP INFORMATION = PF1                        PF KEY ASSIGNMENTS = PA1
```

Use the Remote Sessions Logon screen to access an applid of another Landmark *PerformanceWorks* MVS product. The status of the product you want to access must be active.

Accessing this Screen

To access this screen, complete one of the following paths.

Product	Action	Displays
TMON for CICS/ESA	On the command line, enter *=9.2.*	Remote Sessions Logon
TMON for CICS/MVS	On the command line, enter *=9.2*	Remote Sessions Logon
TMON for DB2	On the command line, enter *=9.5.2*.	Remote Sessions Logon
TMON for DBCTL	On the command line, enter *=9.7.2.*	Remote Sessions Logon
TMON for MQSeries	On the command line, enter *=9.5.2*.	Remote Sessions Logon
TMON for MVS	On the command line, enter *=A.1*.	Remote Sessions Logon

Primary Commands

Use the DOWN and UP commands to scroll through this screen. To learn about the various ways to scroll using these commands and for syntax and descriptions of all commands, see Chapter 2 in your product reference manual.

Fields

➥ APPLID

Displays the applid of a product defined in the control file. All applids defined in the control file are shown.

Cursor-select an applid to access the associated product. The first screen of the selected product is displayed.

DESCRIPTION

Displays a brief description of the product with the applid shown in the corresponding APPLID field.

PRODUCT

Displays the product for this session definition. The following table lists valid identifiers.

Identifier	Product
TMONCICS	TMON for CICS (CICS/ESA) and TMON for CICS (CICS/MVS)
TMONDB2	TMON for DB2
TMONDBC	TMON for DBCTL
TMONMQ	TMON for MQSeries
TMONMVS	TMON for MVS

STATUS

Indicates the status of the Landmark product. The following table lists valid status indicators.

Status	Description
ACTIVE	The product is active.
INACT	The product is not active.
UNKNWN	The status of the product cannot be determined.

VER

Shows the version of the Landmark product. The value in the VER field is always zero unless both of the following conditions are met.

- The product session is active and can perform Landmark NaviGate functions (in other words, its modification level is correct).
- At least one Landmark product communication link has been made to the product session.

Chapter 4: Support and Maintenance

The goal of Landmark's Customer Services team is to help you solve any problems or answer any questions that arise as you use Landmark products or documentation.

This chapter discusses:

- Our Customer Service Satisfaction Guarantee
- Year 2000 compliance warranty
- Requesting and receiving support
- Product support policy
- How Landmark distributes product maintenance
- Electronic Customer Service system
- Proactive maintenance policy
- Hiper fix policy
- Submitting an enhancement request
- Configuration changes and disaster recovery.

Customer Service Satisfaction Guarantee

Landmark Systems Corporation is committed to providing responsive, quality service to any customer who purchases maintenance from us. We are committed to delivering on this promise and, therefore, make the following guarantee:

If, in any month, the customer is not satisfied with the service received for a Landmark product, we will give them credit for double that product's monthly maintenance fee.

This guarantee commences with the general availability (GA) of any new Landmark product or the new release of any existing Landmark product.

The following guidelines apply if you wish to invoke this guarantee.

- We must receive a letter signed by your department manager on your company letterhead. This letter must describe the situation and explain the reasons for the dissatisfaction.
- Your company's maintenance payments must be current.

Credit will be implemented as described in the following table.

Your License Agreement	Our Credit Policy
Permanent License or Lease/Purchase	You will receive a credit for two month's maintenance on your next annual maintenance invoice.
Rental	You will receive a credit for one month's rental upon renewal.

Year 2000 Compliance Warranty

Landmark Systems Corporation warrants that its licensed programs are Year 2000 compliant. *Year 2000 compliant* means that the licensed program, individually and in combination, shall:

- Process the date and date-related data, including but not limited to, calculating, comparing, and sequencing
- Manipulate the date and date-related data with dates prior to, through, and beyond January 1, 2000
- Be transparent to the user
- Correctly transition into the Year 2000 with the correct system date without human intervention, including leap year calculations
- Provide correct results when moving forward or backward in time across the Year 2000.

Notwithstanding the above, it is understood that, based on IBM's plan to withdraw programming support for CICS/MVS 2.x and below, VSE/ESA 1.3 and below, and CICS/VSE 2.2 and below, Landmark has no plans to modify TMON for CICS/MVS, TMON for VSE, or TMON for CICS/VSE, respectively, to support Year 2000 on those platforms. Landmark reserves the right to modify these plans based on changes in IBM's plans and Landmark's own business requirements.

You will have the right to perform tests that are reasonably necessary to determine compliance with the Year 2000 compliant warranty stated here. You may, at no additional cost, make a test copy of the licensed programs for which you are licensed and test such copy(s) on any platform that Landmark has indicated is suitable for the licensed program.

Product Support

This section discusses:

- What to do before contacting Landmark
- How to request support
- Our process for providing support.

Before Contacting Landmark

You should define your problem, assign it a severity level according to the guidelines in this section, and gather any appropriate supporting documentation before you contact Landmark for product support. When defining your problem, be prepared to describe it as completely as possible and outline the sequence of events that preceded it.

Use the following criteria to assign the problem a severity level.

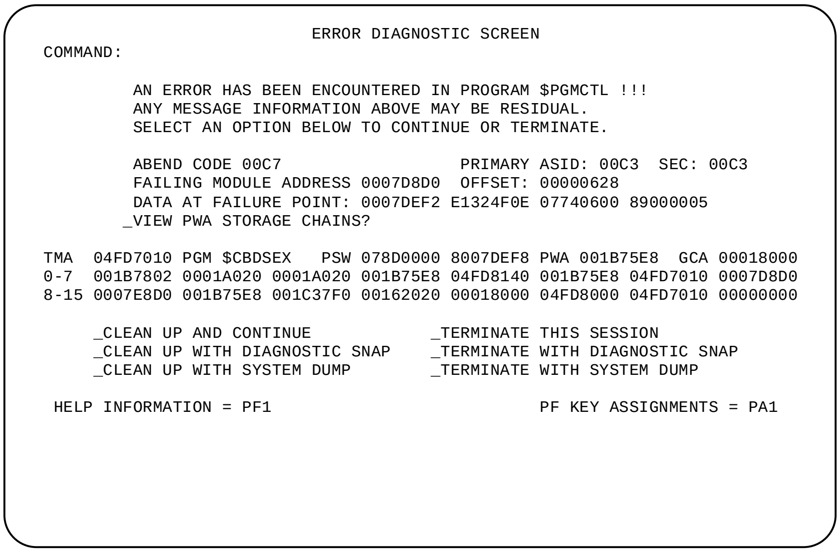
Level	Description
SEV1	The system fails or the product is not operational when in a business-critical application. This is the highest priority level for a problem.
SEV2	A serious problem affects, but does not prohibit, software operation.
SEV3	A problem affects software operation but does not prevent it.
SEV4	You have a usage question, encounter a documentation error, or have an enhancement request. Read about submitting an enhancement request later in this chapter.

Collect the following supporting documentation:

- All the messages you receive, including the message numbers and text. If you receive messages from IBM or other vendors' products, please read any available documentation related to the messages and follow any instructions provided therein before contacting Landmark.
- A description of your operating environment, including:
  - The version number and Performance Series for MVS or *PerformanceWorks* tape identifier of the relevant Landmark product
  - The version number of the operating system
  - The version number of other related program products, such as VTAM, MVS, CICS, AIX, Solaris, Sybase, Oracle, and SunOS
  - A list of all hardware components and their configuration
  - A list of any installed software changes.
- All output related to the problem, for example:
  - Dumps and traces
  - Screen prints, particularly the Error Diagnostic Screen (described in the next section)
  - Samples of JCL, control statements, and incorrect output (mainframe products)
  - JES2 or OPTION LOG output (mainframe products)
  - Samples of scripts and incorrect output (distributed products).

Error Diagnostic Screen

The Error Diagnostic Screen enables you to recover from an internal error. It also provides us with the information we need to diagnose the problem.



```
                           ERROR DIAGNOSTIC SCREEN
COMMAND:

         AN ERROR HAS BEEN ENCOUNTERED IN PROGRAM $PGMCTL !!!
         ANY MESSAGE INFORMATION ABOVE MAY BE RESIDUAL.
         SELECT AN OPTION BELOW TO CONTINUE OR TERMINATE.

         ABEND CODE 00C7                  PRIMARY ASID: 00C3  SEC: 00C3
         FAILING MODULE ADDRESS 0007D8D0  OFFSET: 00000628
         DATA AT FAILURE POINT: 0007DEF2 E1324F0E 07740600 89000005
        _VIEW PWA STORAGE CHAINS?

TMA  04FD7010 PGM $CBDSEX   PSW 078D0000 8007DEF8 PWA 001B75E8  GCA 00018000
0-7  001B7802 0001A020 0001A020 001B75E8 04FD8140 001B75E8 04FD7010 0007D8D0
8-15 0007E8D0 001B75E8 001C37F0 00162020 00018000 04FD8000 04FD7010 00000000

     _CLEAN UP AND CONTINUE            _TERMINATE THIS SESSION
     _CLEAN UP WITH DIAGNOSTIC SNAP    _TERMINATE WITH DIAGNOSTIC SNAP
     _CLEAN UP WITH SYSTEM DUMP        _TERMINATE WITH SYSTEM DUMP

 HELP INFORMATION = PF1                           PF KEY ASSIGNMENTS = PA1
```

The screen displays several fields you can cursor-select to recover from the error, terminate your session, or obtain information to help resolve the problem. Either a user or a system abend code is displayed in the ABEND CODE field. If the code begins with an "S," it is a system abend code.

The only way to exit this screen is to select one of the cleanup or terminate fields at the bottom. If the problem is not a recurring one, you should cursor-select CLEAN UP AND CONTINUE and attempt to continue your session. If you cannot continue, cursor-select TERMINATE THIS SESSION.

Print the screen before you make your selection and contact Customer Services or your local Landmark representative. If you call Customer Services, a technician may ask you to cursor-select the VIEW PWA STORAGE CHAINS? field to obtain information for debugging the problem. If the technician needs additional information, you may be asked to cursor-select one of the cleanup or terminate options at the bottom of the screen to obtain a diagnostic snap or system dump.

Requesting Support

Once you have gathered the supporting documentation for your problem, you are ready to contact us for support. Which technician you contact to obtain support varies, depending on where you licensed your Landmark product and the level of support you purchased.

- If you licensed this product outside of the U.S. or Canada, report any problems or concerns directly to your local Landmark representative.

- If you licensed this product through an authorized reseller, report any problems or concerns directly to the reseller.
- If you licensed this product directly from Landmark in the U.S. or Canada, contact Landmark Customer Services at one of the following numbers:
  - In the United States, the U.S. Virgin Islands, and Canada, 1-800-775-LMRK (or 1-800-775-5675)
  - 1-703-464-1300

  Standard operating hours are Monday through Friday from 8 a.m. to 6 p.m. eastern standard time (EST). However, we provide support for critical (SEV1) problems 24 hours a day, 365 days a year. So, if you experience a SEV1 problem outside of standard business hours, use the same telephone numbers.

  If you have a password, you can request customer support through the Internet at `www.support@landmark.com.` You also can send an e-mail message to `its@landmark.com` or fax your request to Customer Services at (703) 464-4901 or 1-800-257-8251.

Response Policy

Landmark Customer Services' response policy varies depending on the severity assigned to the problem.

SEV1 Problems

We provide support for SEV1 problems 24 hours a day, 365 days a year. When you contact us, a technician starts working on your problem immediately. If all technicians are busy, we will respond to you within two hours. If you contact us after normal business hours, you can leave a message and a technician will return the call within two hours.

Non-SEV1 Problems

If your problem is not a SEV1 problem, a technician starts working on your problem immediately. If all technicians are busy, we will provide you with an activity number and respond within four hours. If you call after normal business hours, leave a message, and a technician will call back the next business day.

No Response

If a Landmark technician attempts to contact you five or more times, leaving messages when you are not in, and you do not return Landmark's call within 48 business hours, your activity is closed. In addition, if a Landmark technician has requested supporting documentation for the problem or is waiting for confirmation of a problem resolution from you, and you do not contact Customer Services within two weeks, your activity is closed automatically.

Receiving Support

Every time you contact Landmark Customer Services to report a new problem or request information, a technical assistant:

- Asks for your site number and the version number of the product on which you are reporting.

- Assigns an activity number to the problem. Be sure you record the activity number and use it during follow-up communication to ensure efficient handling of your problem. During subsequent communication, we use your activity number to route the communication appropriately. If you need to forward supporting documentation to Landmark, mark the activity number on both the contents and the outside of the package to make sure the appropriate team member receives it.
- Asks you to provide a brief description of the problem.

A Customer Services technician asks you to describe the problem and supply any other information that may assist in resolving it. If the problem already has been reported and a fix is available, the technician can mail a module replacement to you or assist you with downloading it from the Electronic Customer Service system (ECS), described later in this chapter. If the fix is part of a service upgrade, the technician can order the upgrade for you.

If the problem you describe indicates a software malfunction that does not have a fix, the technician may ask you for additional information, including the supporting documentation discussed earlier in this chapter.

Submitting Documentation to Landmark

When a problem requires further investigation, we may ask you to send your supporting documentation to Landmark. You can either send it via FTP to `ftp.landmark.com` (the quickest method) or use the following procedures to mail it.

1. For dumps, raw data, traces, or other large-volume printouts, send tapes (3480 cartridges are preferred), with a description of how you created the tape, the data set name, the record and block sizes, and the number of files. Note that Landmark internal software interprets unformatted SVC or console dumps. Please do not send printed (JES offload) or formatted dumps.

   For job logs, screen prints, small snap dumps, and other small printouts, send the original listings.
2. Include a short note that describes the documentation you are sending and whether you want Landmark to return it.
3. Label each document and the outside of the package with the assigned activity number.
4. Send the package to:

   Attention: CUSTOMER SERVICES
   ACTIVITY NUMBER:
   Landmark Systems Corporation
   12700 Sunrise Valley Drive
   Reston, Virginia 20191-5804

Note If a Landmark technician requests your supporting documentation and does not receive it within two weeks, your activity is closed automatically.

Changing the Priority of an Activity

If the impact of a reported problem becomes more severe, you can escalate the priority of an activity in one of two ways:

- Although Landmark strictly follows its severity level definitions when assigning a severity level to a problem, you can request that your problem be given a higher *priority*, based on how important resolution of the problem is to your business. The technician documents this in the activity record and notifies the appropriate manager. Increasing the priority of a problem does not necessarily increase its severity level.
- Contact the following levels of management to either escalate the priority of your activity or express any concerns you may have: service manager, Director of Customer Services, Vice President of Development and Customer Services, or President of Landmark Systems Corporation. After reviewing the details of your situation, the problem can be assigned a higher priority, as appropriate. We use an activity's priority to schedule resources to resolve the problem.

If a problem becomes less severe, contact Customer Services with the activity number and request that they assign the activity a lower priority or close it.

Product Support Policy

Landmark fully supports the current release and one previous release of each of its products. Landmark cannot, however, support all releases of its products indefinitely.

Sunset Support Policy

Once Landmark announces the general availability (GA) of a product release, it provides support for the previous release for a *minimum* of six months. Landmark supports older releases of its products for as long as practical, but not indefinitely. Announcements regarding our support plans for various product releases are made in our quarterly online newsletter, *The Landmark Monitor*. Once programming support for a product release is withdrawn, Landmark no longer supplies fixes for problems nor accepts enhancement requests for that release.

When a vendor announces the end of support for system software or a hardware configuration on which Landmark products rely, Landmark will make a similar announcement to customers regarding the support plans for its products. Landmark's support for problems affected by system software release levels will terminate when the vendor no longer supports their hardware or software.

Premium Sunset Support Policy

Supporting sunsetted releases is a costly practice and is impossible for Landmark to do when the operating system or subsystem Landmark products require to provide support are no longer supported by their respective vendors.

Between the time Landmark sunsets a product and the time it becomes impossible to support the release, you can request a price for premium sunset maintenance. These additional maintenance fees are used to cover our additional support costs, such as maintaining old systems, and to allow more time to resolve requests for service.

Premium sunset support contracts must be for a specified period of time (a minimum of six months). The money-back guarantee will not be valid if we find that we do not have the resources needed to find solutions to problems.

Product Maintenance

This section discusses:

- How Landmark distributes maintenance
- Electronic Customer Service system
- Proactive maintenance policy
- Hiper policy
- How to submit a product enhancement request.

How Landmark Distributes Maintenance

We distribute our products in object code format. We do not provide source-based code to anyone outside of Landmark. Source code and the methodologies of data extraction are considered proprietary information. To protect your investment and support contractual requirements, source is archived.

We distribute maintence for our mainframe products (*PerformanceWorks* for MVS and OS/390 and *PerformanceWorks* for VSE) and distributed products (*PerformanceWorks* for Distributed Products) as described in the following sections.

Mainframe Products

Periodically, Landmark publishes a base Performance Series for MVS, *PerformanceWorks* for MVS and OS/390, or *PerformanceWorks* for VSE tape for all Landmark MVS or VSE products. For MVS products, all installation and maintenance is performed using SMP/E. For VSE products, we provide a single tape in unloaded format.

Landmark also publishes MVS and VSE cumulative maintenance (CUM) tapes periodically containing all known maintenance for the products. The availability of all of these base and CUM tapes ensures that you can obtain the most up-to-date release of any Landmark MVS or VSE product.

Landmark assigns to each tape an identifier that indicates the level of service applied. These identifiers appear on the physical tape in either ETyyvn or PSyyvn format, as described in the following table.

Identifier Part	Description
ET	An *early test* tape that is created only for Alpha and Beta products.
PS	A *base tape* containing products that are generally available.
yy	The 2-digit year in which the tape was created.
v	The version number of Performance Series for MVS, *PerformanceWorks* for MVS and OS/390, or *PerformanceWorks* for VSE.
n	An incremental tape number that changes each time a tape is produced.

For example, “PS9734” is the fourth base tape for *PerformanceWorks* Version 3 in 1997.

When a new release or product version becomes available, Landmark notifies our customers in *The Landmark Monitor*, our online quarterly Customer Services newsletter. To access a copy of the newsletter, use your Internet browser to go to `www.landmark.com`.

For complete information on installing base tapes and for applying maintenance from CUM tapes, read the appropriate installation guide for your Performance Series or *PerformanceWorks* product.

Distributed Products

We deliver distributed products on CD-ROM. Users under current maintenance contracts can contact Landmark Customer Services for support by calling 1-800-775-5675 or sending an email message to `its@landmark.com`. In addition, Customer Services periodically releases maintenance CD-ROMs and makes them available to users under current maintenance contract.

For complete information on installing distributed products, read the appropriate installation guide.

Electronic Customer Service System (ECS)

Note The Landmark ECS is currently available for direct access only to customers in the U.S. and Canada. Other customers receive the benefits of ECS through their local Landmark representative.

Using Landmark’s ECS, you can access product fixes 24 hours a day, as soon as Landmark Maintenance publishes them. You also can obtain information on product-specific issues, including discussions of important product topics, sample programs, and other areas of interest to Landmark customers. For complete information on the Landmark ECS, read *Electronic Customer Service*

System User's Guide, which is included in every product's documentation set.

Proactive Maintenance Policy

If you do not want to wait until you have a problem, you have the option of receiving product maintenance automatically. Landmark will proactively ship new maintenance to you on a CUM tape as soon as it is published. To receive this service, call Customer Services at 1-800-775-5675, fax your request to 1-800-257-8251, or send an e-mail message to `its@landmark.com`.

Hiper Fix Policy

When Landmark identifies a hiper problem in a product and has developed a fix for it, we distribute notification of the problem and the fix to all customers of that product who have current maintenance contracts. A *hiper problem* is a high impact or pervasive problem that Landmark Development has determined can disable your operating system, subsystem, TMON product, or critical business application. We recommend that you apply this fix as soon as possible.

Submitting an Enhancement Request

You can make product enhancement requests by submitting to Landmark Customer Services a detailed written description of the enhancement on your company letterhead. Your enhancement request must be signed by your department manager. Once Landmark receives the request, we assign it an activity number and notify you. Enhancements are considered only for current, supported releases (read the section on our product support policy in "Product Support," earlier in this chapter).

The request is then reviewed by the product team, which determines whether the enhancement is accepted or not. You are sent a letter notifying you of your request's status. If the enhancement request is accepted, it is placed in a pool of accepted requests. This pool is reviewed by the product team when future releases are being planned.

Acceptance of a request does not guarantee an enhancement's implementation in a specific product release. Acceptance is only an indicator that we believe the suggestion has merit and is consistent with the established direction of the product. When your enhancement is incorporated into the product, you are notified by letter of the product release that contains it.

Configuration Changes and Disaster Recovery

Landmark uses software-enabled passwords that are based on the processor on which the Landmark product is running. If you plan to move the product from one system to another or are forced to move (for example, in a disaster recovery situation), you must call to get a new product-enabling password.

New or Replacement Processors

Landmark requires written notification when new CPUs are installed and new CPU serial IDs are assigned. We should receive notification on company letterhead, describing the change to occur, when it will occur, and the new CPU identification information. Customers outside the U.S. and Canada should notify their local Landmark representative.

Disaster Recovery

If you are forced to move to a disaster recovery site, you are fully supported. If you are planning to test your disaster recovery procedures, contact us during the planning phase to give us the CPU identification you will be using.

- If you licensed your product directly from Landmark, temporary passwords are available 24 hours a day, 365 days a year following normal after-hours support procedures for Severity 1 problems.
- If you licensed your product outside the U.S. or Canada, contact your local Landmark representative for support.

Appendix: TMON for MVS Sample Library

This appendix lists the members in the TMON for MVS 2.0 sample library, in alphabetical order. A brief description of each member is provided. For a list of members in the Strategic Services sample library, see “Appendix C: Strategic Services Sample Library” in *PerformanceWorks for MVS and OS/390 Installation Guide*.

Contents	**Description**
CODEFMT	Macro used to build an entry to the CODETABL CSECT for use by TMON for MVS
TMVACF2D	Documentation for CA-ACF2 security use with TMON for MVS
TMVACF2R	Job stream used for CA-ACF2 definitions
TMVAPPL	TMON for MVS sample VTAM definition
TMVBKUP	Job stream to create a backup copy of the control record
TMVRPR01	Job stream to create a backup copy of the Landmark File Services files
TMVRSTOR	Job stream to restore control record
TMVRWE01	Exception Summary report
TMVRWE02	Exception Detail report
TMVRWJCL	Sample JCL to execute the TMON for MVS Report Writer
TMVRWN01	Enqueue Summary report
TMVRWN02	Detail Enqueue by Major/Minor report
TMVRWP01	Demand and Total Paging Rates report
TMVRWP02	Common Storage Area Data report
TMVRWP03	Link Pack Area Data report
TMVRWP04	Private Area Data report
TMVRWP05	Page/Swap Data Set Allocation report
TMVRWP06	Logical Swap Activity report
TMVRWP07	UIC Distribution report
TMVRWP08	V:R Ratio vs. Paging Activity report
TMVRWP09	ESTORE Summary report
TMVRWP10	Logical Swap Effectiveness report
TMVRWS01	CPU Busy and Average Tasks report
TMVRWS02	System Summary report
TMVRWS03	System SRM Summary report
TMVRWS04	Average TSO Users and First Period Response report

Contents	Description
TMVRWS05	Maximum and Average Batch Users
TMVRWS06	System reports
TMVRWSEL	Dummy select member
TMVSASWG	SAS workload manager goal mode reports for monitoring velocity and response time
TMVSASWK	SAS workload manager compatibility mode report for monitoring velocity and response time
TMVSCNTL	Job stream to copy select key ranges from one control file to another
TMVSRMIS	Diagnostic program
TMVTSDOC	Documentation for CA-Top Secret security use with TMON for MVS
TMVWGTXT	Descriptions of the SAS workload manager goal mode reports in member TMVSASWG
TMVWKTXT	Description of the SAS workload manager compatibility mode report in member TMVSASWK
TMVXPAND	Sample decompression routine

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