





# Table of Contents

CHAPTER 1 - SYSTEM OVERVIEW1		
BACKGROUND	1	
CLIENT COMPANY PROCEDURE	3	
UMS-GUEST CONTROL/DISPATCH	4	
Areas of Functionality	4	
Main Control	4	
Host Interface	5	
Output Services		
Secondary Session Services	5	
FUNCTIONS	6	
CHAPTER 2- SYSTEM INSTALLATION	11	
PRE-INSTALLATION FUNCTIONS	11	
Procedure	11	
INSTALLATION FUNCTIONS	13	
Procedure	13	
Copybooks:		
Sample Entry:	14	
TESTING	16	
UMS RELEASE MOVE-TO-PRODUCTION	17	
Procedure	17	
APPENDIX A - GENERAL SOFTWARE REQUIREMENTS	21	
IBM Systems	21	
Non-IBM Systems	21	
APPENDIX B - ISC TCT ENTRIES	23	
APPENDIX C - SAMPLE FCT ENTRY IF VSAM SWAP AREA IN USE	25	
APPENDIX D - PPT/PCT ENTRIES	27	
APPENDIX E - UMS FUNCTION KEY USAGE	29	

APPENDIX F - PROGRAM NAME/FUNCTION FOR UMS	31
NAMING CONVENTION:	31
APPENDIX G - COPYBOOKS	33
APPENDIX H - OPTIONS IN SETUP MACRO FOR UGZ0014P PROGRAM	35
НОТКЕҮ	36
TEMPSTOR	36
SYSTEM and COMSAVE	36
TSTABLE	37
TRACE	37
APPENDIX I - VTAM/NCP SAMPLES	39
APPLIDS:	39
APPENDIX J - ERROR MESSAGES AND CODES	41
APPENDIX K - LU6.2 INTERFACE MESSAGES	43
APPENDIX L - BUSINESS FUNCTIONS	45
APPENDIX M - UMS INSTALL JCL	49

# **System Overview**

### **Background**

The Uninsured Motorist System (UMS) was developed to allow insurance companies to tell the RMV when they had canceled the policy on a vehicle, creating a possible uninsured motorist. The system operates in both the batch and on-line mode. It is a means of providing information to Insurance Companies and their agents in a more timely manner. Over time, features have been added to the system so it now covers far more than insurance policy changes. The UMS system is part of a system called the Automated License and Registration System (ALARS). This system consists of multiple components including Licensing, Registration, Title, Suspensions, Accident Records, Inspection Maintenance, Non-Renewal, Policy, and Merit Rating Board information.

As before, the communication between the Registry of Motor Vehicles (RMV) and the client sites (i.e. insurance companies and/or cities/towns/vendors) is functioning guest-tohost. This means that the RMV (host) manages the system database, transfers information between host and guest, and validates responses from the guest interface. The client sites (guest) manage all terminal processing and software formatting at their own sites.

As a result, the RMV acts as a data repository for the insurance companies to better influence important business decisions and for the cities/towns/vendors to maintain critical data on outstanding obligations of the driving public. This type of processing allows movement toward a more distributive-processing environment.

The actual interface between the RMV and the client sites is a logical master/slave relationship, where the RMV (host) computer system acts as the slave, and the client site (guest) acts as the master. As a result, the RMV software interface at the host site NEVER initiates any interaction with the guest site. Further, each initiation from the UMS guest site has only one response transmission from the RMV. The only exception is during table loading from the RMV.

The selection of this structure allows the UMS guest site to easily implement a detailed audit facility. This facility transmits information to and from the RMV, by modifying the supplied interface module to write all interactions to an audit file, such as a CICS journal file.

The supplied Application Processing Component (APC) relies on a structured common area for processing control data and work areas. In order to conserve storage, this area is

not preserved when a CICS RETURN function is executed. Instead, the area is a temporary storage space that saves the data and restores it after the next terminal input.

There are three storage alternatives provided:

- VSAM KSDS (only option available for SP systems)
- CICS GETMAIN above the line (XA, ESA & 390 systems only)
- RMV's High Core Facility (XA, ESA & 390 systems only)

If you select the VSAM KSDS option, it is necessary to pre-format the space before initiating CICS. Instructions are provided later in this manual.

If you select the CICS GETMAIN option, all areas are saved in the CICS DSA above the line.

If you select RMV High Core Facility, an OS GETMAIN is issued (only at CICS startup) to acquire the necessary storage to save the work areas. This occurs when the startup transaction, UGTL, is issued.

Depending on CICS version, you may need to adjust DSA sized to allow appropriate space.

### **CLIENT COMPANY PROCEDURE**

The following procedure is for client company use:

- 1. The Client Company receives the guest software on a magnetic cartridge. This cartridge consists of six files:
  - File 1 JCL to unload the cartridge files 2 through 6
  - File 2 IEBCOPY of load library
  - File 3 IEBCOPY of source library
  - File 4 IEBCOPY of macro library
  - File 5 CICS SIT/TCT/VTAM/FCT/PROCs
  - File 6 CSD offload of CICS groups
- 2. The Client Company needs to install these libraries using the documentation in this manual. Add the appropriate load libraries to the CICS start-up JCL and start CICS.
- 3. Sign-on to the system and test out the latest release. The software used at the guest site allows access to the Registry of Motor Vehicles' database. The client companies can do one of the following:
  - ♦ Install software
  - Modify the software to suit their environment (change screen layouts)
  - Trap information from the UMS system and ship to other applications
  - Integrate the software into their current applications

**NOTE:** If application programs are changed or integrated, make sure that the information passed to the host is in the correct format. We do not expect or want the guest sites to modify the interface programs.

#### UMS-GUEST CONTROL/DISPATCH

Control/Dispatch (CD) represents the various service level functions provided for the UMS guest application programs. There are two purposes to CD. The first is to provide a level of standardization to functions common to multiple application areas. The second is to perform functions deemed overly complex for the typical application module.

#### Areas of Functionality

- Screen/CRT/CICS-Map management (section 4, 6, 7, and 8)
- Memory management
- Function validation
- Host interface
- Table services

(section 5) (section 7)

(section 4)

(section 4)

Each of these areas is a component of CD and may exist as a unique module, or as a component of multi-purpose module(s).

#### Main Control

All UMS transactions use the same PCT entry. UMS requires not less than 2 transactions to run. One (typically UG03) is referred to as the initialization transaction. Another (typically UG04) is referred to as the default run transaction. When the main control program obtains control, it determines if this is an initialization call by checking the transaction name against the initialization transaction name. If the initialization transaction is found, the system clears the common area, sets a flag to indicate initialization, sets the current map-name to the logon map, and transfers control to output services. When the user returns, the logon process is treated in a manner essentially the same as any other function, except that the system requires the user to complete logon before allowing a function change.

UMS supports three mechanisms of saving COMMAREA:

- RMV-High Core
- ♦ VSAM
- ◆ CICS-High Core

The main control module insures that the current COMMAREA image is in an area located below the line.

CD determines if the user changes the function-code. If so, the new function code is validated. If valid, and all required modules are present, the internal data is changed to

dispatch the selected function. If CD detects an error, output services are invoked to send an appropriate message to the user.

If no function is currently selected, output services are invoked to so inform the user.

If a function key is pressed, the meaning of the key is checked for validity in the current environment. If invalid, output services are invoked to send the error message to the user. Otherwise, the appropriate service is invoked.

The only remaining option is to dispatch the application. Most applications use table driven mapping/demapping LX table (LXTBL) services, but some do not. Those that do not are transferred to directly. Those that do require that mapping/demapping services first be dispatched, which, in turn, dispatches the application.

#### Host Interface

Once an application determines that it must obtain data from the host, it builds the application portion of a host parameter block, then transfers control to the host interface module defined for this guest. The interface module checks for the host being active, completes the control portion of the host parameter block, and transmits the data to the host. When the response is received, the host interface module transfers control back to the requesting application.

**NOTE:** If the host is not active, or if a fatal error is detected on the host side, the host interface program directly invokes output services to post an error message.

#### **Output Services**

The following four activities are performed by output services:

- Format the common map header (for example, date and time).
- Find a message code in the message dictionary and place the text in the map.
- Setup for saving the COMMAREA according to the site option for COMMAREA location.
- Determine the next transaction code (either that specified for the executing function, or the default run transaction).

Once these activities are complete, the map is sent, and the program returns.

#### Mapping/Demapping Services

Most applications use mapping/demapping services for processing of maps. These services provide table driven transfer and editing of fields between the COMMAREA and

the map buffer. Some sophisticated cross-field edits and host table edits are available. When errors are detected, they result in the direct invocation of output services. Any application that uses these services for demapping also uses them for mapping. These services are used before the application and output services.

#### Secondary Session Services

CD treats the secondary session as a toggled entity. If it is not active, the request must be to activate; if it is active, the request must be to terminate. Activation consists of saving the COMMAREA and current screen (via 3270-READBUF) on a temporary storage queue and going through normal dispatch. Termination consists of restoring the COMMAREA and the screen and continuing with normal output services. *Devices which do not support READBUF are not eligible for this service*.

### **Functions**

INSURANCE COMPANY or CITY/TOWN/VENDOR

RMV

GUEST

HOST

#### MASTER

SLAVE

Sign-On Input Screen Editing Request Database Information Output Response From Host Check Security Additional Editing Database Retrieval Respond to Guest

#### NOTES:

- Guest and Host application software is written in CICS command level Cobol and assembler.
- Interface/Control software is written in CICS command level assembler.

# SOFTWARE





# HARDWARE



# **TEST / PRODUCTION**



<u>NOTE:</u> GUEST *test* system is connected to HOST *test* system. GUEST *production* system is connected to HOST *production* system.

# INTERFACE



# 2 System Installation

### **Pre-Installation Functions**

Review *Appendix A - General Software Requirements* to make sure that your installation meets the minimum software requirements.

#### Procedure

- 1. Contact the RMV systems group to coordinate the installation of a leased line from the guest computer to the RMV site (see *Appendix I VTAM/NCP Samples*).
- 2. Provide a modem or other connection device to the RMV for this link.
- 3. Set up PU type 4/5 link with RMV. Link is SDLC full-duplex, (attached sheets show other link characteristics).
- 4. Make sure all CICS tables are updated for the ISC link:

#### РСТ

support for ISC

#### PPT

support for ISC

#### SIT

BMS=(FULL,COLD,DDS)	
EXEC=YES	Command Level Support
ISC=YES	ISC support is desired
TS=(xxxx,y,z)	TEMPSTOR support
VTAM=YES	VTAM support
BFP=YES	Built-in function support

Note: These six option names may change from release to release of CICS.

#### ТСТ

RDO to define a connection and sessions. See sample in *Appendix B - ISC TCT Entries*.

5. Make sure all CICS tables are updated for the UMS application:

#### FCT

Add UMS entries. See *Appendix C - Sample FCT Entry if VSAM Swap Area in Use*.

#### PCT

In CSD member PCTUMSG

#### PPT

In CSD member PPTUMSG

#### PLTPI or SEQ. terminal

Need one of the facilities to start up transaction UGTL to initialize the UMS system. **SEQ** terminal dataset is recommended.

#### JCL

If creating a new loadlib, add to the CICS DFHRPL concatenation. If using VSAM SWAP, add to the CICS start-up JCL with DD name of UMSCSWAP.

### **INSTALLATION FUNCTIONS**

#### Procedure

1. Build JCL to unload cartridge-unload JCL, file #1, supply VOLSER(\*\*\*\*\*) from the distribution cartridge

(Appendix M - UMS Install JCL lists the JCL unloaded)

Sample JCL to unload file 1 (unload JCL for remaining 5 files on the cartridge)

//UNLOAD1 JOB...... //STEP1 EXEC PGM=IEBGENER //\* //SYSOUT DD SYSOUT=\* //SYSUT1 DD SYSOUT=\* //SYSUT1 DD DSN=RMVMV.RMV.INSTJCL.REL600, // UNIT=(CART,,DEFER), // DISP=SHR,VOL=(,RETAIN,SER=\*\*\*\*\*), // LABEL=(1,SL,,,EXPDT=98000) //\* //SYSUT2 DD DSN=your.library,DISP=SHR //SYSIN DD DUMMY

**Note**: EXPDT depends on the Tape Management System; our environment recognizes 98000 as a *Foreign Tape*. You will need to make this whatever is appropriate for your system environment.

**Note:** All install files have OS Standard Labels. Please take DCB information from the cartridge file label; do not hard code them in the JCL.

File 1 has the JCL to unload the rest of the cartridge.

2. Modify the JCL stream produced by step 1 as required. This JCL unloads five files as follows:

•	UMSLOAD - Load modules for the UMS system DSN=RMVMV.RMV.UMSLOADP.REL600	(Blk=19069)
٠	UMSSRCE - Source for the UMS system DSN=RMVMV.RMV.UMSSRCEP.REL600	(Blk=32760)
٠	UMSMACR - Macros and Copybooks for UMS system DSN=RMVMV.RMV.UMSMACRP.REL600	(Blk=32760)

٠	UMSCICS - CICS table entries/sample PROCs	
	DSN=RMVMV.RMV.UMSCICS.REL600	(Blk=32760)
٠	UMSCSD - CICS CSD with PCT/PPT/ISC entries DSN=RMVMV.RMV.UMSCSD.REL600	(see JCL)

3. In this release, PCT and PPT entries, along with a sample ISC connection, are in the CSD format. You must do a **VSAM REPRO** of this data to a dummy CSD.

The following Groups are from a CICS 4.1 system and have several new entries. They need to be updated before starting the new system:

- ◆ PPTUMSG (PPT)
- PCTUMSG (PCT)
- MODLTEST (Test region) (the guest test region is connected with RMV test region "R")
- MODLPROD (Prod region)
- 4. In UMSSRCE, member UGZ0011P needs to be reassembled only if you wish to change the timeout option or error log option. This program is an assembler command level program. Change the job card and the EXEC card to reflect your environment. Place the load module in the UMSLOAD library.
- 5. In UMSSRCE *UGZ0014G*, this is simply an assembler program with **NO CICS** commands.

**Note:** *This will need re-assembling if modifying the terminal id list.* Before assembling, create 2 copybook members in a library of your choice (preferably not one of the UMS libraries). These members are needed from release to release. Make sure this library is in the assembler PROC used for UGZ0014G. Do **not** preface this module with a Command Level interface module.

#### Copybooks

The first member is **\$UMSTERM**. This member contains the terminal ids of all the terminals that access the UMS system. You need an entry for each terminal desiring to use the system.

#### Sample Entry

col. 10 DEVICE xxxx where xxxx is CICS termid

#### NOTES:

If using COMSAVE=CICS option there only needs to be one (1) terminal entry.

If planning to start up the system from sequential terminal input, it is also necessary to add the TERMID of the sequential terminal to this list, unless COMSAVE=CICS is selected.

The second member is **\$UMSSET**. This copybook contains the site information used during system initialization and communication with the HOST.

- Copy the \$UMSSET member in the UMSMACR library *as a sample*. Modify site-id as assigned to you by the RMV. Other changes are needed depending upon the options chosen.
- See Appendix H Options in Setup Macro for UGZ0014P Program for further details.

Both \$UMSTERM and \$UMSSET samples can be found in the UMSMACR library.

- 6. If your site is using a VSAM SWAP area, add this parameter to the SETUP macro. See *Appendix H Options in Setup Macro for UGZ0014P Program* for further details.
- 7. Two JCL procedures (PROCs) are needed to install the system. If there is a desire to change any code or maps, then other PROCs are needed. The following describes some of the procedures that can be used:

#### HIGH LEVEL ASSEMBLER

Needed for install and any changes to assembler modules

#### **COMMAND LEVEL ASSEMBLER**

Needed for changes to control system and a few function programs

#### BMS

Needed if map changes are made. Note that the Guest Software assumes the SIT is optioned to have BMS assume an 'M' suffix for 3270 maps.

#### **COBOL II**

Needed for changes to the function programs.

# *Runtime options need to be configured so that Working Storage and Dynamic Storage are Pre-Cleared.*

For Cobol II: Use WSCLEARFor LE:Use Storage (00,NONE,NONE,OK)

**NOTE**: If the runtime options are not used to pre-clear storage, the **application program cannot assume that the area is initialized to binary zeroes and the results may be unpredictable.** 

**NOTE**: For each of the above procedures, add the macro/copy libraries to the SYSLIB concatenation, as well as all the other necessary libraries for CICS.

# 8. *Important:* Program UGZ0014P can be migrated forward from your current copied load library, no need to reassemble this module.

**NOTE**: UGZ0014G must run again to create a second module to run in the production region. HOSTNAME parameter must change for the production version. Check *Appendix H - Options in Setup Macro for UGZ0014P Program* for correct option on this field.

If not using the VSAM SWAP area, skip to the Testing Procedure.

- 9. Modify JCL UGZ0016J to create VSAM SWAP file.
- 10. Modify JCL UGZ0016P to assemble (must run after the assembly of UGZ0014P).

### <u>TESTING</u>

- Make sure that the correct versions of all UMS modules are new loaded. UGZ0003P and UGZ0017P must be defined with RES=YES. CEMT NEWCOPY may not work properly with these. If INTERTEST is available, its CORE=LOAD option should reestablish residency after a CEMT NEWCOPY.
- Run transaction UGTL to initialize the system
- Type UG03, to enter the system
- Follow application testing procedures

There are two options to run the UGTL function at start-up.

- 1. The first option is to put program UGZINITP in the PLTPI.
- 2. The second option is to use sequential terminal input and pass the transaction ID of UGTL.

**Note:** Remember, if using sequential terminal input, it is important to add that ID to the \$UMSTERM macro before assembling UGZ0014P.

### UMS RELEASE MOVE-TO-PRODUCTION

#### Procedure

- 1. In the production environment, you need to set up the ISC connection with the RMV. The VTAM APPLID for the production system is **BAOCICA1**. Put the VTAM APPLID in the NETNAME parameter for the ISC connection.
- 2. In the UMS macro library, create a new macro \$UMSSEP. Copy the macro \$UMSSET into this member.
- 3. In the \$UMSSEP macro, change the **HOSTNAME** parameter to **MVA1**.
- 4. In UMS source member UGZ0014G, change the statement <u>COPY \$UMSSET</u> to <u>\$UMSSEP</u>.
- 5. Re-assemble UGZ0014G.

#### WARNING: Be sure that you are pointing to the NEW PRODUCTION LOAD LIBRARY, so that you do not overwrite the existing test system member.

- 6. All other UMS programs can move as is.
- 7. Copy all UMS table entries as they are set up in the test environment.
- 8. Contact RMV network to check out the link.
- 9. Verify that all user IDs (security) are set up for the users in the production environment. Please check with the RMV UMS contact to ensure that this occurred.

**NOTE:** Call the UMS area <u>one</u> week before going to production. At that time, you can direct any problems to them for assistance. The phone number is



# **Appendix A:** General Software Requirements

#### **IBM Systems**

Operating System CICS VTAM High Level Assembler Cobol-II MVS/ESA or better 3.3 or above 3.4 or above Any supported version Any supported version or CA/OPTIMIZER

**NOTE**: Application modules may not work properly with IBM optimized COBOL.

### Non-IBM Systems

Specific software selection for the various hardware vendors is a difficult choice. We indicate the functions that are required for the guest site to interface with the host computer. The guest site must interface with an IBM network utilizing a PU4/5 interface to IBM's NCP. Once this is accomplished, it is necessary to have an LU6.2 interface that utilizes the parallel sessions.

**NOTE**: This LU6.2 interface is utilizing a very small number of all the available functions. You must convert all application programs to the preferred language of the guest site.

# Appendix B: ISC TCT Entries

<sysid> = is the system identifier for: RMV.TEST MVR1 PROD MVA1

<vapplid> = is the VTAM APPLID for: RMV.TEST BAOCICS1 PROD BAOCICR1

At the beginning of the TCT, if using macro, put in the following entries. GBLC &BLANKS &BLANKS SETC ' '

Place the following two macro entries at the end of the TCT, if using 1.6.1 CICS. If using 1.7, you will need RDO to install the connection to the RMV. Please use the intercommunication facilities guide to find the equivalent RDO statements available to install the connection.

	Column 72
DHFTCT TYPE=SYSTEM,	Х
ACCMETH=VTAM,	Х
FEATURE=PARALLEL,	Х
SYSIDNT= <sysid>,</sysid>	Х
CONNECT=AUTO,	Х
NETNAME= <vapplid>,</vapplid>	Х
TRMTYPE=LUTYPE62	

MODESET ENTRY

DFHTCT TYPE=MODESET,	Х
SYSIDNT=XXXX,	Х
MODENAME=&BLANKS,	Х
MAXSESS=(10,10),	Х
BUFFER=4096,	Х
RUSIZE=4096,	Х
CONNECT=AUTO,	Х
OPERRSL=(1,2,3,4,5,6,,24),	Х
Put in all 24 entries.	
PERSEC=(1,2,3,4,5,6,,64)	
Put in all 64 entries.	

A SAMPLE RDO IS IN THE CSD FILE.

# **Appendix C:** Sample FCT Entry if VSAM Swap Area in Use

Column 72

UMSCSWAP DFHFCT TYPE=DATASET,	X
ACCMETH=(VSAM,KSDS),	Х
DATASET=UMSCSWAP,	Х
FILSTAT=(ENABLED,OPENED),	Х
RECFORM=(FIXED,BLOCKED),	Х
STRNO=2,	Х
BUFND=3,	Х
BUFNI=2,	Х
SERVREQ=(GET,BROWSE,UPDATE,SHARE)	

Put in the IDCAMS definition member

# Appendix D: PPT/ PCT Entries

Look at the group **PPTUMSG** or **PCTUMSG** in the CSD file. This member has the latest entries needed to run the UMS system from a guest site.

WARNING: Do not reuse the entries from a previous release.

# **Appendix E:** UMS Function Key Usage

CLEAR	Go to next higher level function
PA1 PA2 PA3	Swap between primary and secondary function default Go to next higher level function
F1	End session
F2	Main menu
F3	
F4	Cursor selection
F5	
F6	Screen hop
F7	Page backward
F8	Page forward
F9	Refresh screen
F10	
F11	Rescroll screen
F12	Update database

# **Appendix F:** Program Name/ Function for UMS

### Naming Convention

The Program Name has the form of ABCDDDDE where:

- A Constant of 'U' For UMS System
- B Constant of 'G' For Guest Site Constant of 'H' For Host Site Constant of 'I' for Site Independent (both) Constant of 'V' for Virtual Guests
- C Application Function
  - B Booking System (exam)
  - C Cash
  - E Emissions
  - H MAB
  - I Inspection Maintenance
  - L License Modules
  - M MRB
  - N Non-Renewal License
  - P Policy Modules
  - R Registration Modules
  - S Suspension
  - U UMS Modules & Cross System
  - V Motor Voter
  - W Overweight Permits
  - Z System Control Modules

DDDD - Number 1 through 9999

- E Type of Program
  - P Program
  - M Map (Guest side)

- L Subschema (Host side)
- T LX table (Guest side)
- J JCL
- G Copybook
- Y Copybook

# Appendix G: Copybooks

These can all be found in RMVMV.RMV.UMSMACR PDS.

# **Appendix H:** Options in Setup Macro for UGZ0014P Program

(UMSSRCE member UGZ0014G)

In member \$UMSSET in UMSMACR library that was unloaded there is a sample SETUP macro. **Remember this is only a sample** but, the parameters **TYPE**, **PROTO**, **NSWAP**, and **HOSTRAN** should not be changed. The other parameters in the sample are discussed below with their options.

SITE:	MRMV
HOSTNAME	MVR1 for Test system MVA1 for Production

#### TRAN1 and TRAN2

The application portion of UMS requires a minimum of two TRANID's to execute. These are referred to as a session-startup TRANID and a default session-run TRANID. The default values are UG03 and UG04 respectively. A site may elect to run with alternative TRANID's. To do this, two actions are required.

- 1. First, PCT entries must be setup for the desired TRANID's. These should point to UGZ0001P, just as the release TRANID's do.
- 2. Secondly, the desired TRANID's need be specified in the SETUP macro within UGZ0014P, and this module must be reassembled.

The symbolic names are TRAN1 and TRAN2. Thus, to make the session-startup TRANID be ZZZZ and the session-run TRANID be AAAA, the following is required:

.....,TRAN1=ZZZZ,TRAN2=AAAA

**Note:** The value of TRAN1 must be 4 EBCDIC characters, but the value of TRAN2 may be 4 EBCDIC characters or 8 hexadecimal characters. This allows the default session-run TRANID to be made a value that cannot be easily entered by a terminal operator.

You should also note that UMS business functions normally all execute under the default session-run TRANID. If, for some site dependent reason this is not satisfactory, the site may specify alternative TRANID's for some (or all) functions. This is accomplished by generating the requisite PCT entries (identical to the default UG04 entry), and

reassembling UGZ0002P after including the desired TRANID on the optional TASK= parameter of each PCTEG you desire to change. The allowable values are 4 EBCDIC characters or 8 hexadecimal characters.

**NOTE**: The session-startup TRANID must not be the same as the session-run TRANID or the same as any TRANID on a TASK= entry in UGZ0002P.

### **HOTKEY**

UMS contains a "hotkey" option, which allows the user to enter a second logical session, for inquiry purposes. The term "*hotkey*" refers to the key used to toggle between the sessions. The default key used is PA1. The site may elect to use any of the three PA keys for this purpose. This is specified in the SETUP macro with the HOTKEY symbolic. The allowable values are PA1, PA2, or PA3. If you desired to use PA2, the entry would be:

.....HOTKEY=PA2

### **TEMPSTOR**

The use of the HOTKEY option by a user requires the UMS software to save the current user environment so that it can be restored when the user returns to the primary logical session. The environment is saved in CICS temporary storage, as two records on a queue named *UMSQ????*, where *????* is the involved TERMID. The total length of the two records is a minimum of 4096 bytes and a maximum of approximately 6500 bytes, depending largely on the amount of data currently being displayed in the primary session. The queue is deleted on return from the secondary to the primary session. By default, UMS will use TEMP STORAGE AUX. If the site desires, performance might be enhanced by the use of TEMP STORAGE MAIN. This is specified in the SETUP macro by specifying a value of MAIN for the symbolic TEMPSTOR:

```
.....,TEMPSTOR=MAIN
```

**WARNING:** This option should ONLY be used if your CICS version is at least 1.7 and your MVS version is at least XA.

### SYSTEM and COMSAVE

As discussed previously, UMS provides two internal mechanisms for preserving its COMMAREA across pseudo-conversational interactions. One of these ways operates outside of traditional CICS technique; the other uses traditional CICS techniques and a VSAM cluster. Both of these techniques account for limitations inherent in older CICS and MVS versions. UMS also supports a mechanism which allows a more conventional CICS preservation of COMMAREA's. This mechanism is only available if your CICS version is at least 4.1 and your MVS version is at least ESA. To use this option, you must specify the value of the SYSTEM symbolic as XA and the value of the COMSAVE symbolic as CICS:

```
.....SYSTEM=XA,COMSAVE=CICS
```

You must still specify a device list in UGZ0014P, but the list need only contain 1 device and the device does not have to exist.

**Note:** By electing this option, you lose the feature of being able to restrict the UMS access via the UGZ0014P device list. Also, as compared with the UMS high-core save option, this technique has a higher degree of system overhead.

### <u>TSTABLE</u>

Options are MAIN and AUX. The default=MAIN. Determines the type of temporary storage used to store the downloaded tables.

### **TRACE**

Options are YES and NO. The default=NO. Enables the HOST-GUEST trace. If the TRACE option is turned on, the data is written to a VSAM dataset. The CICS FCT name is UMSTRACE. The file is an ESDS, with record size of (25 2100). The share options are (2 3).

### **NOTE: GENERAL CICS INSTALLATION INFORMATION**

This release has been confirmed to work in the RMV environment, which is *CICS 4.1* without memory protect and without transaction isolation.

Experience has shown that depending on CICS release level, PTF level memory protect and transaction isolation options, the *PCT and PPT characteristics supplied may need to be customized for a specific site.* 

In particular, should a site with memory protect enabled and *COMSAVE=CICS* specified be experiencing *0C4 abends* in UGZ0015P, this program (and potentially the UGTL transaction) should run in **CICS key**.

In the event of a site specifying memory protect enabled and using the *RMV high core technique* experiencing the same *0C4's*, UGZ0015P, UGZ0001P & UGZ0005P should run in CICS key. *This may also mean that the UGTL, UG03, UG04 & UG05 transactions also need specify CICS key*.

Under similar circumstances, *transaction isolation may require the entire product to run in CICS key*.

These determinations should be made empirically to meet the site's configuration and needs.

# Appendix I: VTAM/ NCP Samples

**APPLIDS:** 

BAOCICR1 Test system

BAOCICA1 Production system

# Appendix J: Error Messages and Codes

These messages can be found in member UGZ0004P of the RMVMV.RMV.UMSSRCE library and in member \$EDSMSGS of the RMVMV.RMV.UMSMACR library. The error messages and codes are index in the UMS Technical Manual for the current release (Release 6.0).

# Appendix K: LU6.2 Interface Messages

MESSAGE	MEANING
NODE NOT FOUND	No ISC connection set-up
TERM TYPE ERROR	ISC set-up incorrectly
OUT OF SERVICE	Link out of service
TERMINATION ACTIV	Link going down
INITIALIZATION ACTIV	Session initialization in progress
CONTROL SESS ERROR	Control sessions in error
NO WINNERS	No winning sessions available
NO SESSION AVAIL	All sessions are in use

# **Appendix L:** Business Functions

Currently, UMS contains the following business functions. These relate to the entries in the PCTEG and PCTEH system control tables. Note that without proper authorization and security, not all functions are available to all users.

FUNCTION	DESCRIPTION	
LI	Unique License Number Inquiry displays data by either current or previous	
	license number.	
LH	License History Inquiry is an expansion of the information previously accessed	
	through the LI screen. It provides you with information about previous license	
	number and name history, and provides access to LHE for endorsement and	
	restriction data on Commercial Drivers.	
COR	The COR Function is used to display reg/owner information and the total	
	amount owed for a registration	
COR1	The COR1 screen is an expansion of the information previously accessed	
	through the COR screen.	
LN	Unique/Non-Unique License Number Inquiry supports scrolling of duplicate	
	entries. This function is automatically invoked if LI encounters a duplicate	
	license number request.	
LNO	Out-Of-State License Number Scroll displays information about anyone who	
	has an out-of-state license number that is identical to the out-of-state license	
	number that you are currently entering.	
LNS	Social Security Number Scroll displays duplicate social security numbers in the	
	system.	
LTH	License Transaction History provides you with a list of all transactions	
	associated with each customer.	
MRBS	Merit Rating Board: Displays any duplicate license numbers in the system, both	
	Massachusetts and out-of-state.	
NRR	Non-Renewal System: Provides a display by registration of unpaid parking	
	tickets and/or excise tax bills.	
R1C	The R1C screen is used to inquire on, add, change, or delete lessee information	
	associated with a registration.	
NRL	Non-Renewal System: Provides a display by license of unpaid parking tickets	
	and/or excise tax bills.	
RBS	The RBS screen is used to display registration bank scroll.	
RH	The Registration History screen displays the owner and vehicle information	
	associated with a registration, including any prior vehicles that might have been	
	attached to the registration.	

RNF	Corporation Scroll by FID screen provides you with a list of corporations
	assigned the same federal ID number. The search can be narrowed by entering
	the corporation's zip code.
ULP	Person Name Inquiry supports partial key entry along with scrolling and
	selection to a primary screen via cursor selection with a Function key.
UMA	Merit Rating Board: Displays detailed information about an at-fault insurance
	claim.
UMC	Merit Rating Board: Displays detailed information about a comprehensive
	Merit Rating Board: This screen requests Safe Driver Insurance Plan (SDIP)
	statement information on up to 10 operators per operator inquiry
UMIO	Merit Rating Board: The UMI9 screen requests Safe Driver Insurance Plan
	(SDIP) statement information on one to 10 operators per operator inquiry.
UMO	Merit Rating Board: This screen produces a scrollable list of summary
	information on citation, comprehensive claim, at-fault accident, and insurance
	inquiry incidents associated with either a person or company.
UMON	The UMON screen displays a scrollable list of summary information about
	citation incidents associated with a company.
UMVH	The UMVH screen displays history information about a traffic citation.
UMVI	Merit Rating Board: This screen displays detailed information about a traffic
	citation.
UP, UR, UL	These are UMS submenu screens.
UMVS	Merit Rating Board: This screen displays either any duplicate citations or,
	optionally, duplicate citations for specific operators.
UPA	The UPA screen is used to inquire, bind, cancel, or reinstate policies. It will
	also clear an unpaid premium and amend the policyholder or the vehicles on an
	Insurance policy.
UPH	policy History inquiry displays policy history by policyholder, for insurance
	Policy Information Change Of Carrier Dequest is an undate screen that provides
UTIC	The facility to relate policy(s)/policyholder(s) and the registration(s)/vehicles(s)
	they are insuring. This screen may also be used for inquiries
UPMV	This screen is used for multiple vehicle amends.
UPOI	Policy Operator Inquiry displays policy rating data dependent on the policy
	effective date, driving records, and number of vehicles insured. This function
	supports Function key windowing of information to the PI screen.
UPTH	The UPTH function is used to display detailed policy history activity by policy.
URBS	The UMS Registration Bank Scroll gives you access to lienholder information
	by name or code. The type of lienholder can be used to display only individual
	or only corporate lienholders.
RI / URI	Registration/Title Inquiry is used to inquire on registration and title information
	by plate type and registration number, VIN, title number, or driver's license
	number.

RN / URN	Non-Individual Name Inquiry is used to request registration information on corporate vehicle owners by name. This function supports partial key entry,
	key.
URSN	Registration Scroll/Name is used to display a list of vehicle registrations by
	individual owner name, date of birth, and registration status.
URSR	Registration Scroll/Registration is used to display a list of vehicle registrations
	by plate type and registration number.
URSV	Registration Scroll/VIN Inquiry is used to request and display a list of vehicle
	registrations by vehicle identification number (VIN) or registration status.
RN / URVN	The URVN function is used to display NADA valuation information and
	vehicle information related to a vehicle identification number (VIN).
UVH	The UVH function is used to display policy information, past or present, related
	to a registration or vehicle identification number (VIN).
RA	The RA screen is only available to non-remote sites or town offices and is used
	to process changes or renewals for Registrations.
VT	This screen displays the current and historical title and registration information
	for the requested Vehicle Identification Number (VIN).

# Appendix M: UMS Install JCL

```
//XXXXXXX JOB CRMV012010000, 'UNLOAD UMS 6.0', MSGCLASS=Y, CLASS=Z,
11
   NOTIFY=XXXXXXXX
//*
//*
//* BE SURE TO DO
//* A GLOBAL CHANGE ON ?XX? CARTRIDGE UNIT 'XX - CART
//*
           AND ON ?YY? FOR CARTRIDGE VOLSER
//*
           AND ON ?ZZ? FOR CARTRIDGE DSN SUFFIX
//*
                'RELZZZ' 'ZZZ - RELEASE NUMBER'.
//*
//* THIS JOB UNLOADS THE RMVMV LIBRARIES FROM CARTRIDGE FOR UMS INSTALL
//C$$$$ PROC TAPEDSN=,YOURDSN=,FILE=,UNIT=SYSDA,DCB=,
        SPACE='(CYL,(20,2,100))',EXPIRE='EXPDT=98000',
11
11
        TUNIT='?XX?', TVOL='?YY?', TPDSUFX='?ZZ?'
//*
//STEP010 EXEC PGM=IEFBR14
//PDS1 DD DISP=(MOD, DELETE, DELETE), UNIT=&UNIT,
// SPACE=&SPACE,
  DSN=&YOURDSN
11
//*
//STEP015 EXEC PGM=IEFBR14
//PDS1 DD DISP=(NEW,CATLG),UNIT=&UNIT,
// DSN=&YOURDSN, SPACE=&SPACE,
11
   DCB=(&DCB)
//*
//STEP020 EXEC PGM=IEBCOPY,REGION=1500K
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD VOL=(,RETAIN,,,SER=&TVOL),
// DISP=SHR,
11
   DSN=&TAPEDSN..&TPDSUFX,
  UNIT=(&TUNIT,,DEFER),
11
11
   LABEL=(&FILE,SL,,,&EXPIRE)
//*
//SYSUT2 DD DISP=SHR,DSN=&YOURDSN
//SYSIN DD DUMMY
//*
//*
11
     PEND
//*------
//*
//*
      FILE 01 IS THIS SET OF JCL, PREVIOUSLY UNLOADED
//* 'YYYYYY' - YOUR DATASET PREFIX
```

```
//*
//*_____
//COPY2 EXEC C$$$$,FILE=02,TAPEDSN='RMVMV.RMV.UMSLOAD',
11
   TPDSUFX='RELZZZ',
11
   YOURDSN='YYYYYY.RMVMV.RMV.UMSLOAD',
11
  DCB='DSORG=PO,RECFM=U,BLKSIZE=19069',
11
   SPACE='(CYL,(20,2,150))'
//*_____
//COPY3 EXEC C$$$$,FILE=03,TAPEDSN='RMVMV.RMV.UMSSRCE',
11
   TPDSUFX='RELZZZ',
11
   YOURDSN='YYYYYY.RMVMV.RMV.UMSSRCE',
11
   DCB= 'DSORG=PO, RECFM=FB, BLKSIZE=6160, LRECL=80',
11
   SPACE='(CYL,(70,7,180))'
//*_____
//COPY4 EXEC C$$$$,FILE=04,TAPEDSN='RMVMV.RMV.UMSMACR',
11
   TPDSUFX='RELZZZ',
11
   YOURDSN='YYYYYY.RMVMV.RMV.UMSMACRO',
11
   DCB= 'DSORG=PO, RECFM=FB, BLKSIZE=6160, LRECL=80',
   SPACE='(CYL,(150,15,800))'
11
//*_____
//COPY5 EXEC C$$$$,FILE=05,TAPEDSN='RMVMV.RMV.UMSCICS',
11
   TPDSUFX='RELZZZ',
  YOURDSN='YYYYYY.RMVMV.RMV.UMSCICS',
11
// DCB='DSORG=PO,RECFM=FB,BLKSIZE=6160,LRECL=80',
   SPACE='(CYL,(1,1,10))'
11
//*
//* ******** INSURE DATA SET FOR THE NEXT STEP IS NOT THERE
//STEP030 EXEC PGM=IEFBR14
        DD DISP=(MOD, DELETE, DELETE), UNIT=SYSDA,
//PDS1
// SPACE=(CYL, (1,1), RLSE),
11
   DSN=YYYYYY.RMVMV.RMV.UMSCSD
//*
//* ** COPY OFF THE CICS PCT/PPT DEFINITIONS (CSD) **
//COPY6 EXEC PGM=IDCAMS
//DD1 DD DSN=RMVMV.RMV.UMSCSD.RELZZZ,
11
   VOL=(,RETAIN,,,SER=?YY?),
11
   DISP=SHR, UNIT=CART,
11
   LABEL=(06,SL)
//DD2 DD DSN=YYYYYY.RMVMV.RMV.UMSCSD,
    DISP=(NEW,CATLG,DELETE),
11
11
    UNIT=SYSDA,
11
    SPACE=(CYL, (1, 1), RLSE),
    DCB=(RECFM=VB,LRECL=18338,BLKSIZE=18342)
11
//SYSPRINT DD SYSOUT=*
//SYSIN
       DD *
    REPRO INFILE(DD1) OUTFILE(DD2)
11
```