**Registry of Motor Vehicles**
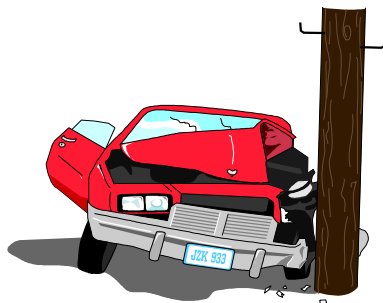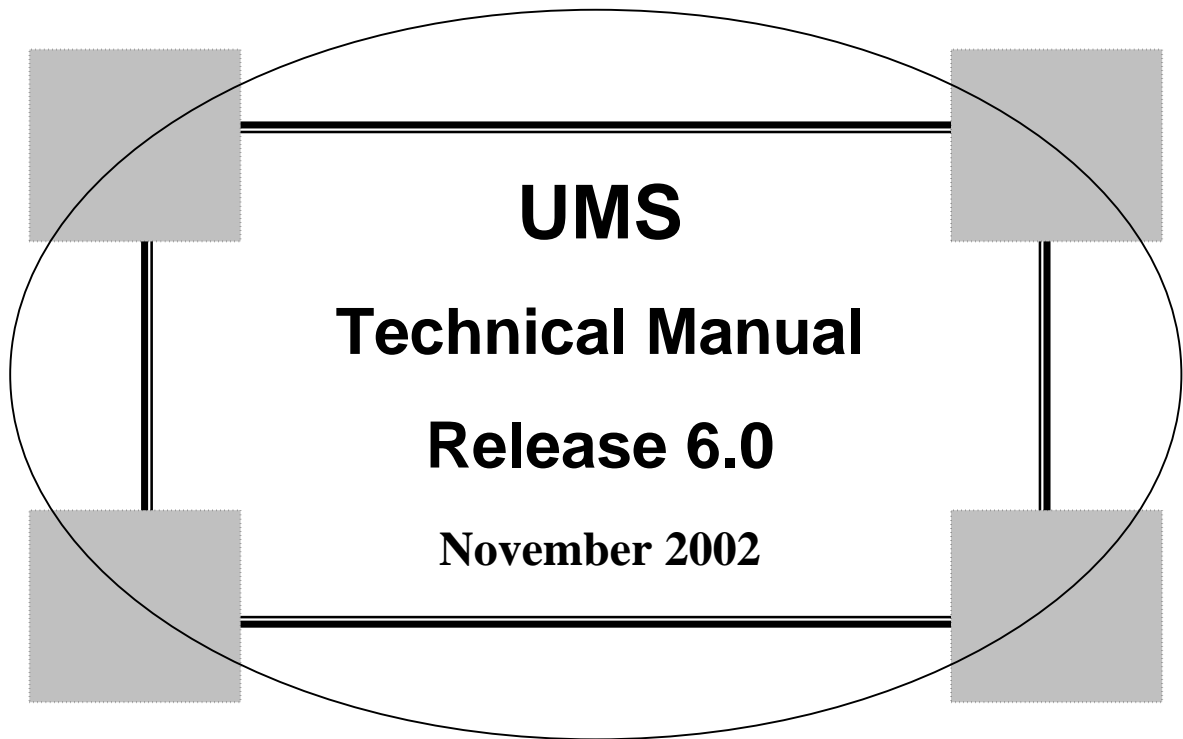
# UMS

## Technical Manual

## Release 6.0

**November 2002**

T21496-1002

# Table of Contents

# <u>Introduction</u>

# <u>About This Book</u>

### *Purpose*

The Uninsured Motorist System (UMS) Technical Manual is a reference tool to use when implementing the UMS system. It is specifically designed to assist you in answering system questions relating to various functions in the system.

### *Audience*

This manual is intended for a technical or systems orientated type audience. The information can be used by system managers in the insurance industry to become more familiar with the UMS system operations.

### *Manual Design*

The manual currently contains the following **three** sections:

♦ System Overview
♦ Specifications
♦ Index

### *Manual Format*

The format of this manual is designed to allow the user easy access to important information. The *System Overview* is a synopsis of how the system operates, and further describes the host-to-guest relationship and insurance company procedures. The *Specifications* section describes all programming aspects of each function. This information includes system components, input/output data, called modules, error messages, and UMS host interface data. The *Index*, located in the back of the manual, allows one to easily find error message numbers, program names, and record names.

# Section 1
# System Overview
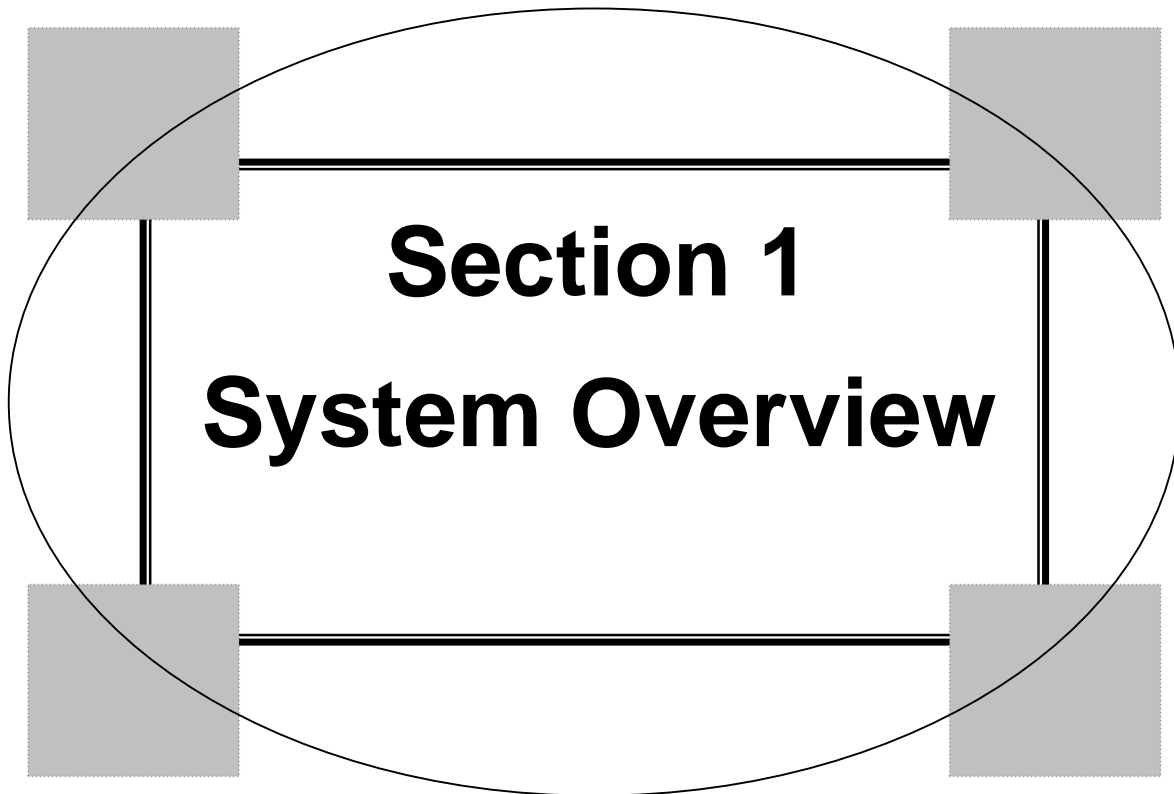
# 1 System Overview

## Background

The Uninsured Motorist System **(UMS)** provides information to insurance companies and their agents in a more timely manner.  The communication between the Registry of Motor Vehicles **(RMV)** and insurance companies is functioning **guest-to-host**.  This means that the RMV (host) manages the system database, transfers information between host and guest, and validates responses from the guest interface.  The insurance companies (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.  This type of processing allows the user to move toward a more distributive processing environment.

Since the RMV's intention is to provide working samples of application programs that work in an isolated environment, we suggest that you integrate applications into the insurance companies existing online systems.  With the flexible design provided to each company, the work becomes a much easier task.  For example, Company A and Company B may both need to display the license number inquiry in a different manner than delivered.  It is only necessary to modify the screen and possibly the guest output module.  These changes are only reflected at the guest site making the modifications.  No changes need to be made to the application interface, or at the host site.  In the end, each party has the desired result.

Currently, UMS contains the following twenty-two business functions:

| FUNCTION | DESCRIPTION |
|----------|-------------|
| **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. |
| **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 information about previous license number and name history.

**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 identical to the out-of-state license number you are currently entering.

**LNS**     Social Security Number Scroll displays duplicate social security numbers in the system.

**LTH**     License Transaction History provides a list of all transactions associated with each customer.

**MRBS**    The MRBS screen displays any duplicate license numbers, both MA and out-of-state, in the system.

**NRL**     The NRL screen is used to review all of the outstanding tickets and/or excise bills for a license number.

**NRR**     The NRR screen is used to review all of the outstanding tickets and/or excise bills for a registration number.

**R1C**     The R1C screen is used to inquire on, add, change, or delete lessee information associated with a registration.

**RNF**     Corporation Scroll by FID screen provides a list of corporations assigned the same federal ID number. The search can be narrowed by entering the corporation's zip code.

**RBS**     The RBS screen is used to review a list of lienholder information by lienholder code or name, with the lienholder type as an optional secondary key.

**RH**      The RH screen is used to display a registration's owner and vehicle information.

| | |
|---|---|
| **UPMV** | The UPMV screen displays a private passenger policy or commercial policies.  The user has the option of either displaying a specific vehicle or a list of all vehicles associated with a policy. |
| **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** | The UMA screen displays detail information about an at-fault insurance claim and allows the addition of new claims or the update of existing ones. |
| **UMC** | The UMC screen displays detail information about a comprehensive insurance claim and allows the addition of new comprehensive claims or the update of existing ones. |
| **UMI9** | The UMI9 screen requests Safe Driver Insurance Plan (SDIP) statement information on one to ten operators per operator inquiry. |
| **UMIQ** | Same as UMI9 description. |
| **UMO** | The UMO screen displays a scrollable list of summary information about incidents associated with 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. |
| **UMVS** | The UMVS screen displays any duplicate citations in the system. |
| **UMVI** | The UMVI screen displays detail information about a traffic citation. |
| **UP, UR, UL** | The UP screen is a display of the UMS submenu. The UR screen is a display of the Registration submenu. The UL screen is a display of the License submenu. |

**VT**                    The VT screen is used to request and display current and historical title and registration information by the Vehicle Identification Number (VIN).

**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 activity.

**UPIC**                  Policy Information Change Of Carrier Request is an update screen that provides 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.

**UPOI**                  Policy Operator Inquiry displays policy rating data dependent on the policy effective date, driving records, and number of vehicles insured.

**UPTH**                  The UPTH function is used to display policy history information for a policy.

**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.

**URN**                   Non-Individual Name Inquiry is used to request registration information on corporate vehicle owners by name.  This function supports partial key entry, scrolling, and selection to a primary screen via cursor selection with a function 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.

**URVN**                The URVN function is used to display NADA information related to a 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 of Registrations.

**UVH**                 The UVH function is used to display policy information related to a registration or vehicle identification number (VIN).

The actual interface between the RMV and insurance companies is a logical master/slave relationship, where the RMV (host) computer system acts as the slave, and the insurance company (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.

## Functions

INSURANCE COMPANY                                    RMV

```
┌─────────────┐                      ┌─────────────┐
│             │                      │             │
│    GUEST    │                      │    HOST     │
│             │                      │             │
│             │                      │             │
└─────────────┘                      └─────────────┘
```
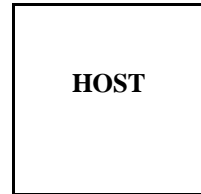
MASTER:                                              SLAVE:

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

NOTES:

Guest and Host application software is written in CICS command level Cobol.

Interface/Control software is written in CICS command level assembler.

## Software

```
                          RMV

                    +--------+
                    | CICS   |
                    |        |
                    +-------+

                        |

                    +-------+
                    | ACF/  |
                    | VTAM  |
                    +-------+

                        |
                        |
                        |

                    +-------+
                    |       |
                    |  ACF/  ++
                    |  NCP   |
                    |        ++
                    |       |
                    +-------+

                        |
                        |
                       ++
    -----------------------------+---------------------------
     INSURANCE                   |
     COMPANY           +-------+
                       |       |
                       |  ACF/  ++
                       |  NCP   |
                       |        ++
                       |       |
                       +-------+

                           |
                           |
                           |

                       +-------+
                       | ACF/  |
                       | VTAM  |
                       +-------+

                           |

                       +-------+
                       | CICS   |
                       |        |
                       +-------+
```

## <u>Hardware</u>

```
                        RMV

              +--------------+
              |              |
              |              |
              |   HOST       |
              |   CPU        |
              |              |
              |              |
              |              |
              +--------------+
                     |
                     |
                +--------+
                | FRONT  |
                |  END   ++
                |PROCESSOR|
                |        ++
                +--------+
    LEASED             |
     LINE   ---->      |
                       |
                      ++
  ---------------------|---------------------------
  INSURANCE            |
   COMPANY        +--------+
                  | FRONT  |
                  |  END   ++
                  |PROCESSOR|
                  |        ++
                  +--------+
                       |
                       |
              +--------------+
              |              |
              |   GUEST      |
              |   CPU        |
              |              |
              +--------------+
```

## Test/Production

```
   GUEST                                     HOST

+-------+                               +--------+
¦       ¦                               ¦        ¦
¦ TEST  ¦                               ¦ TEST   ¦
¦ CICS  +-------+             +--------¦ CICS   ¦
¦       ¦       ¦             ¦         ¦        ¦
¦       ¦       ¦ Communications        ¦        ¦
+-------+       ¦             ¦         +--------+
                ¦             ¦
         +------------¦
         ¦      ^     ¦
         ¦      |     ¦
+-------+       ¦             ¦         +--------+
¦       ¦       ¦ LINK        ¦         ¦        ¦
¦ PROD  ¦       ¦             ¦         ¦ PROD   ¦
¦ CICS  +-------+             +--------¦ CICS   ¦
¦       ¦                               ¦        ¦
¦       ¦                               ¦        ¦
+-------+                               +--------+
```
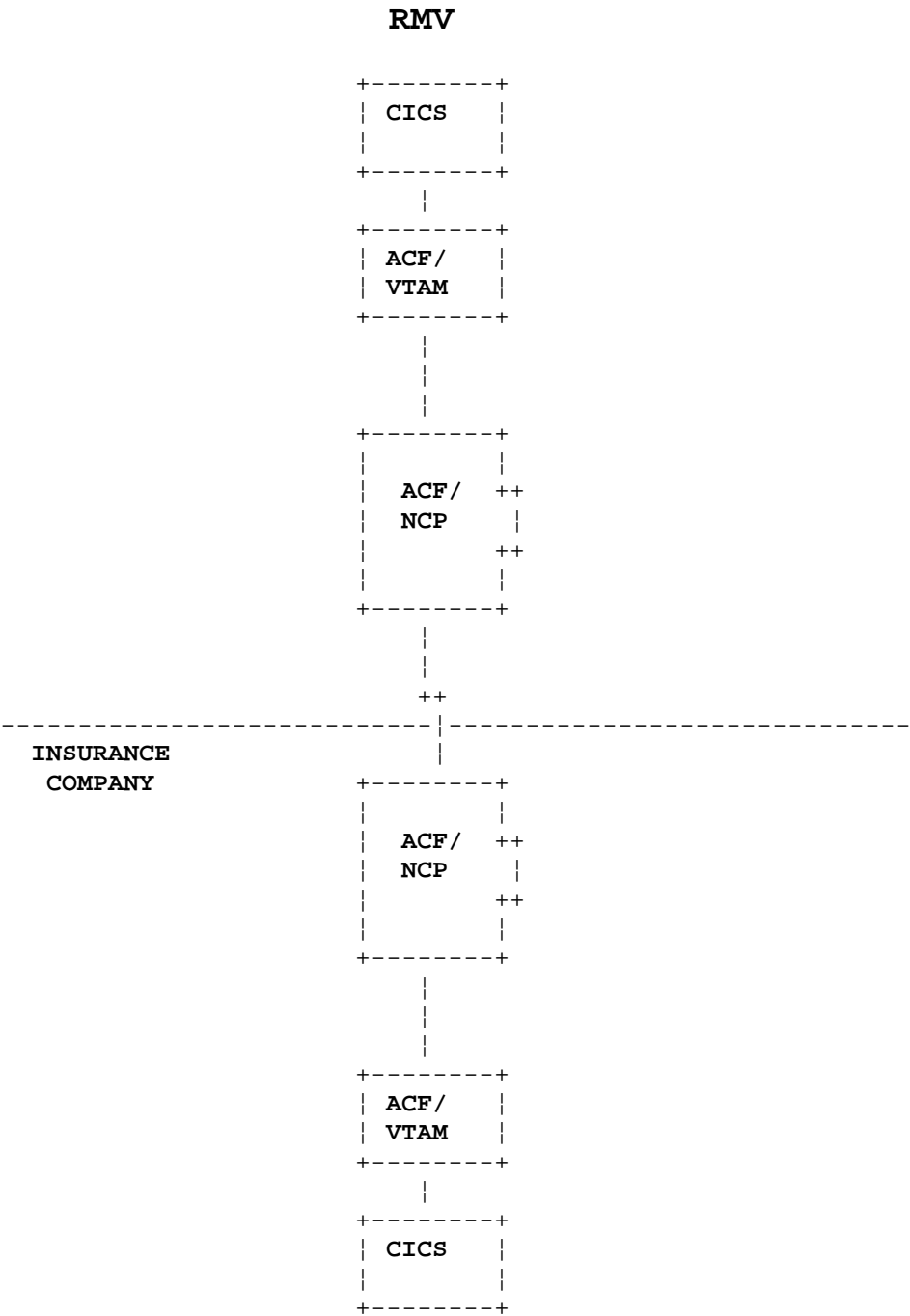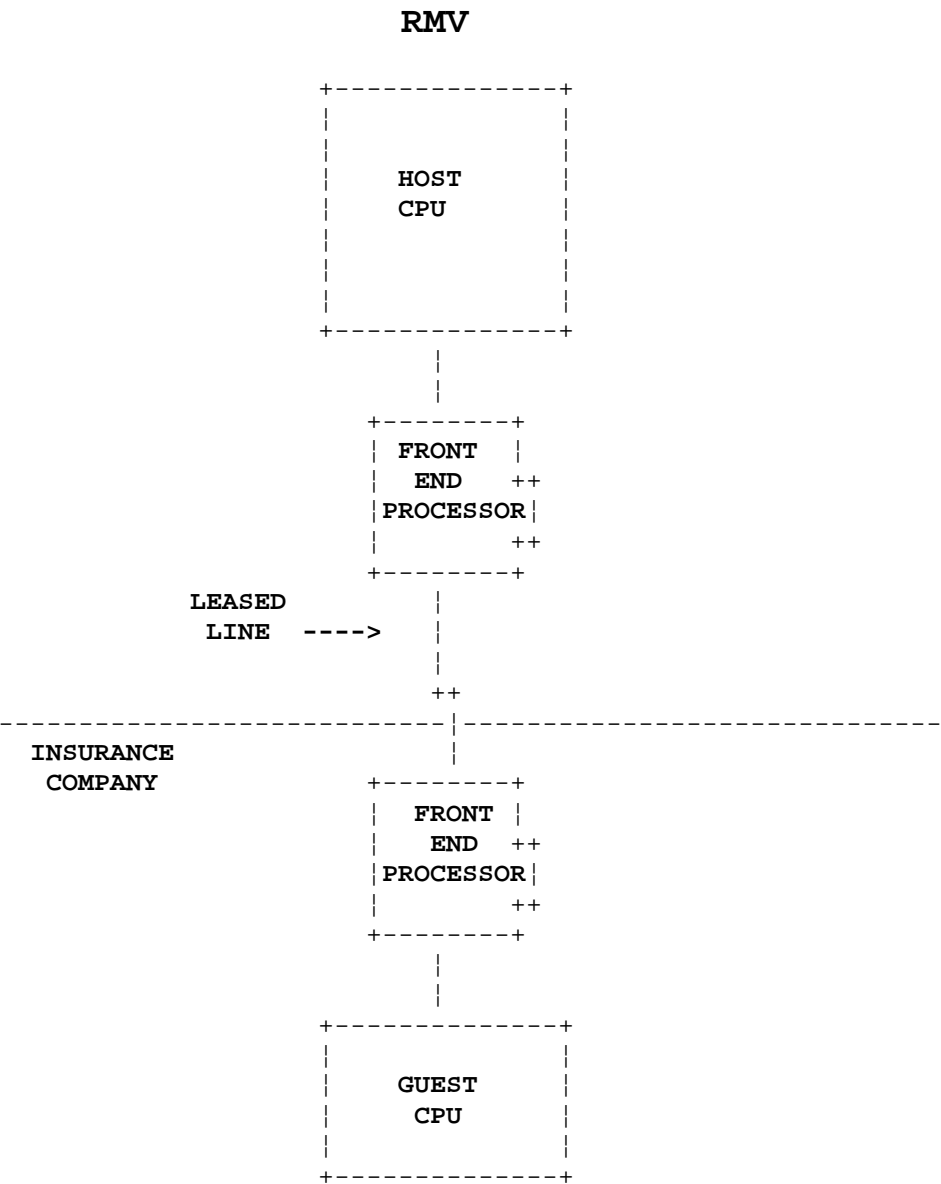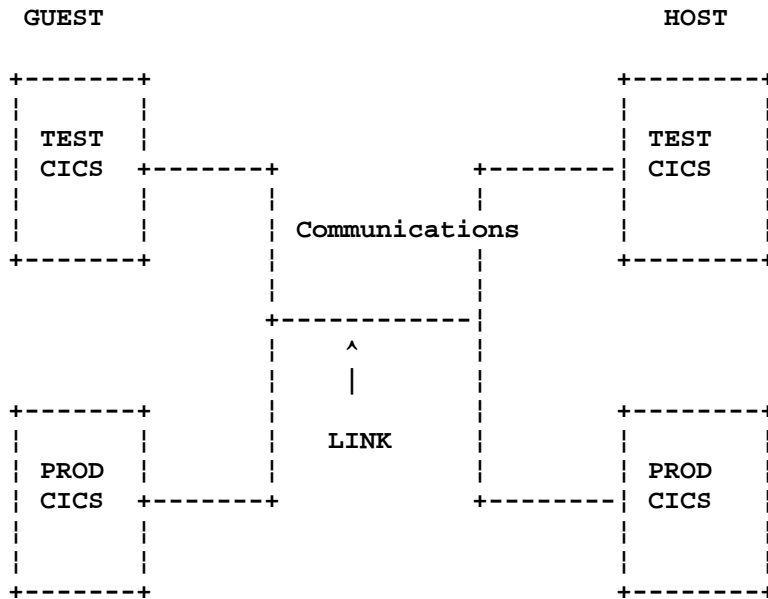
**NOTE:**  Test system is connected to test system and production system is
connected to production system.

## Interface

```
                              RMV

                    +------------+
                    |            |
                    |            |
                    |    CICS    |
                    |            |
                    |            |
                    |            |
                    |            |
                    +------------+
LU6.2 INTERFACE     | | | | | | |   INTER-SYSTEM
Parallel Sessions   | | | | | | |   COMMUNICATIONS
                    | | | | | | |        (ISC)
                    | | | | | | |
                    | | | | | | |
------------------  | | | | | | |  -----------------------
                    | | | | | | |
   INSURANCE        | | | | | | |
    COMPANY         | | | | | | |
                    | | | | | | |
                    | | | | | | |
                    +------------+
                    |            |
                    |            |
                    |    CICS    |
                    |            |
                    |            |
                    |            |
                    |            |
                    +------------+
```

# Section 2
# Specifications
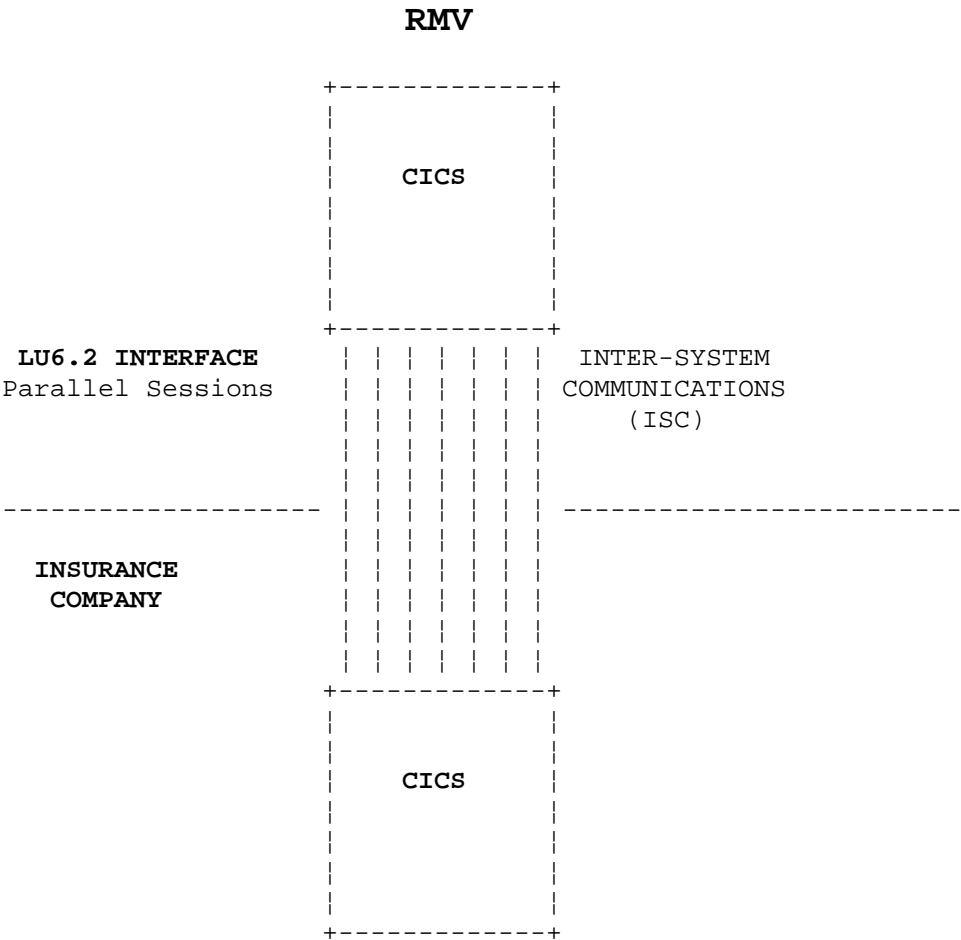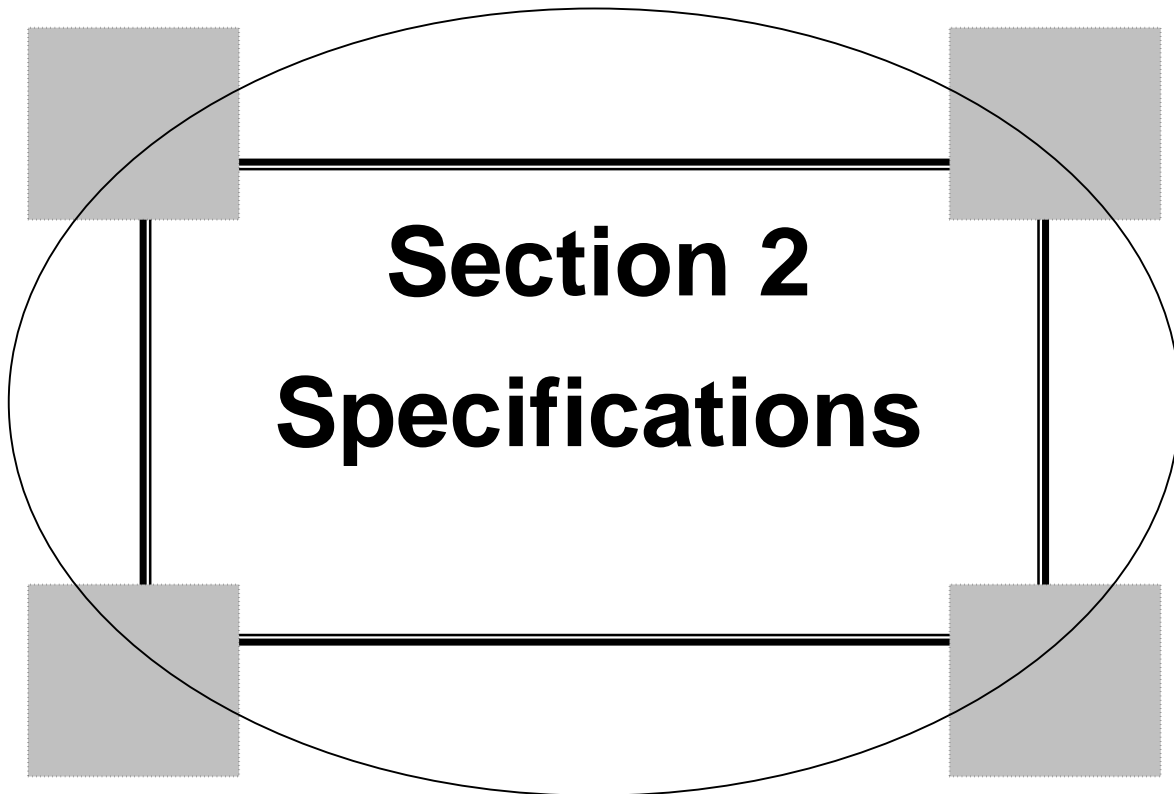
# 2     Cash Obligation Resolution

## COR Function

TITLE:                CASH OBLIGATION RESOLUTION SUMMARY

DESCRIPTION:     The COR function is used to display reg/owner information and the total amount owed for a registration.  To use this screen, the plate type and reg number must be entered.

                             This screen can "hop" to RI or UVH by changing  the function code to the desired screen and pressing the F6 key.

                             COR is modular, written with specific use subprograms, each being a reusable object.  To learn how to use these objects, see the relevant discussion below.

                             NOTE:  A typical use of the COR screen is to find the total amount owed against the registration and to look at the details by hopping to COR1.

COMPONENTS:     *Guest input program*
UGS1191P

*Guest output program*
UGS1192P

*Host program(s)*
UHS1193P
UHS1194P
UHS1195P
UHS1196P
UHS1197P
UHS1198P
UHS1199P

*Lr*
UHS1194L
UHS1195L
UHS1198L
UHS1199L

*Map*
UGS1190M

*Lx table*
UGS1190T

*Copy books*

| | |
|---|---|
| UGZCOMMY | (UGS1191P, UGS1192P) |
| UHZCOMMY | (UHS1193P) |
| UIS119AY | (UGS1191P, UGS1192P, UHS1193P, UHS1194P) |
| UHRREGSY | (UHS1193P) |
| UILXCNST | (UGS1192P) |
| UHUILOGY | (UHS1193P, UHS1194P, UHS1195P, UHS1197P, UHS1198P, UHS1199P) |
| UHS1194Y | (UHS1193P, UHS1194P) |
| UHS1195Y | (UHS1193P, UHS1195P) |
| UHS1196Y | (UHS1196P) |
| UHS1197Y | (UHS1197P) |
| UHS1198Y | (UHS1193P, UHS1198P) |
| UHS1199Y | (UHS1193P, UHS1199P) |
| UGS120AY | (UGS1191P) |
| UIR1240Y | (UGS1191P) |
| MREYIOWK | (UMS1193P) |
| UHS1197Y | (UHS1193P, UHS1197P) |
| UHS1196Y | (UHS1194P) |

*External name*
COR

*Internal name*
COR2 (to access by reg)
COR1, COR3, URSR

## AVAILABLE FUNCTION KEYS:

| | | |
|---|---|---|
| F1 | - | Main Menu |
| F2 | - | UMS menu |
| F3 | - | Not available |
| F4 | - | Not available |
| F5 | - | Not available |
| F6 | - | Screen hopping |
| F7 | - | Not available |
| F8 | - | Not available |
| F9 | - | Hop to COR1 for details |

F10  -  Not available
F11  -  Not available
F12  -  Not available

NOTE:  F6 requires function change

## UGS1191P - GUEST INPUT

INPUT:  
*Map*  
UGS1190M

*Data*  
Plate type                  (Required)  
Registration Number  (Required)  
Plate Color

PROCESS:  
If the program is being accessed for the first time, a blank screen with the message "Please enter keys" is displayed on the screen. The user must respond by entering the required key data fields.

When the enter key is pressed, the plate type and registration number are edited to be greater than spaces.

If no errors are found, the key fields are moved to a part of the common area, called the guest-to-host block, that is sent to the Host Retrieval program (UHS1193P).  Also, the internal name COR2 is moved to the guest-to-host block.

If this program is entered because the F6 key was pressed, then the registration surrogate from the common area is moved to the guest-to-host block.

OUTPUT:  
If no errors are detected, the output from this program is placed in the guest-to-host block and passed to UHS1193P.  If an error is detected, an error message is moved to the common area and control is transferred to the Guest Output program (UGS1192P).

MESSAGES:  
501191001  -  Please Enter Keys  
501191002  -  Invalid Function Key Pressed  
501191003  -  No surrogate for F4  
501191004  -  No surrogate for F9 from duplicate selection screen  
501191005  -  Enter Key Valid with Changes Only  
501191006  -  Duplicate Reg - Selection Required - Press Enter  
501191007  -  No surrogate for F9 for hopping to COR1 screen

CALLED MODULES:      None

## UHS1193P - HOST RETRIEVAL DRIVER

INPUT:               Guest-to-host block from UGS1191P

PROCESS:             This program serves as a driver only.  It links to UHS1194P to get the reg/owner data, then to UHS1195P for the fee owed because of effective actions on the reg, then to UHS1198P for the fees owed because of outstanding citations on the reg, and lastly to UHS1199P for the fees owed because of bad payments.  At each stage, the total fees are accumulated.

If any of the called programs returns an error, the error code will be passed to the guest output program for display.

If no errors are detected, the data is moved to the host-to-guest block and control is passed to the guest output program UGS1192P.

MESSAGES:            None

CALLED MODULES:      UICALLST  - msg logging and security

LINKED MODULES:      UHRREGSY  -  reg status
                     UHS1194P  -  reg/owner data
                     UHS1195P  -  fees for actions on reg
                     UHS1198P  -  fees for citations
                     UHS1199P  -  fees for bad payments

DATA BASE RECORDS:        None

## UHS1194P - HOST RETRIEVAL OF REGISTRATION/OWNER INFORMATION

INPUT:               Copybook of GSA from UHS1193P

PROCESS:             This program reads the registration information using the surrogate, if available, or the VEHR-REG index if not.  Duplicates are detected.  If a single reg is found, the data is moved to

copybook UHS1194Y and returned to the host driver, else an error message is returned.

MESSAGES:
    501194001  -  Run unit bind failed
    501194002  -  Inquiry Process Complete
    501194003  -  Unknown Error - Call DP
    501194004  -  Record Matching Keys Not Found

CALLED MODULES:    None

LINKED MODULES:    None

DATA BASE RECORDS:  *Retrieval*
    MMVR-NOWN
    MMVR-PERS
    MMVR-PERS-R
    MMVR-VEHR
    MMVR-VEHR-OWNR

# UHS1195P - HOST RETRIEVAL OF ACTIONS ON A REGISTRATION

INPUT:    Copybook UHS1195Y from UHS1193P

PROCESS:    This program reads for actions on a reg.  In general, one passes in the VEHR surrogate, a maximum number of actions to return (default =  100), a date to compare the effective date against, the type of compare (EQ,NE,LT,GT,LE,GE), the desired TYPE-PHYS-1 (A,E,R) and the desired TYPE-PHYS-2 (R,S,U,N,X).  In this case, we look for active actions effective today of any of TYPE-PHYS-2.  COR does not need the actions;  it merely calculates the fee owed for them based upon any being found.  The data is moved to copybook UHS1195Y and returned to the host driver, else an error message is returned.

MESSAGES:
    501195001 - Run unit bind failed
    501195002 - Table Overflow - Call DP
    501195003 - Inquiry Process Complete
    501195004 - Unknown Error - Call DP

CALLED MODULES:    None

LINKED MODULES:    None

DATA BASE RECORDS: *Retrieval*
                    MMVR-ACTN
                    MMVR-ACTN-ADJD
                    MMVR-DECI
                    MMVR-DECI-OFNS-R
                    MMVR-FTAB
                    MMVR-INCD-OFNS-R
                    MMVR-VTAB

## UHS1198P - HOST RETRIEVAL OF CITATIONS

INPUT:                 Copybook UHS1198Y from UHS1193P

PROCESS:          This program reads for citations on an owner.  In general, one passes in the VEHR surrogate, the owner surrogate and type, a maximum number of citations to return (default = 200),  today's date (to know if an associated  action is effective), CITA-TYPE (1,2,3,4,5), CITA-CODE (W,N,C,A,S,P), and whether to retrieve pending-only.  In this case, we look for citations of type 1 (active), and code P (payable).  COR does not need the citations; it merely calculates the fee owed for them based upon any being found.  The data is moved to copybook UHS1198Y and returned to the host driver, else an error message is returned.

MESSAGES:      501198001 - Run unit bind failed
                    501198002 - Table Overflow - Call DP
                    501198003 - Inquiry Process Complete
                    501198004 - Unknown Error - Call DP

CALLED MODULES:    None

LINKED MODULES:    None

DATA BASE RECORDS: *Retrieval*
                    MMVR-ACTN
                    MMVR-ACTN-ADJD
                    MMVR-CITA
                    MMVR-DECI
                    MMVR-DECI-OFNS-R
                    MMVR-INCD-OFNS-R
                    MMVR-PCTA

## UHS1199P - HOST RETRIEVAL OF BAD PAYMENTS

INPUT:                Copybook UHS1199Y from UHS1193P

PROCESS:         This program reads for bad payment records on an owner.  In general, one passes in the owner surrogate and type, a maximum number of actions to return (default = 200), the desired MSCO-REC-STATUS (A,I), the desired MSCO-PAY-STATUS (D,P,U), and the desired ORIG-TXN-TYPE (B,C,D,L,P,R,T).  In this case, we look for active MSCOs with PAY-STATUS of unpaid and an original transaction of R (reg) or B (both reg and title).  COR does not need the MSCOs;  it merely calculates the fee owed for them based upon any being found.  The data is moved to copybook UHS1199Y and returned to the host driver, else an error message is returned.

MESSAGES:      501199001 - Run unit bind failed
                        501199002 - Table Overflow - Call DP
                        501199003 - Inquiry Process Complete
                        501199004 - Unknown Error - Call DP

CALLED MODULES:     None

LINKED MODULES:     None

DATA BASE RECORDS:  *Retrieval*
                        MMVR-CITA
                        MMVR-DREG
                        MMVR-FTAB
                        MMVR-INCD-OFNS-R
                        MMVR-MSCO
                        MMVR-MSCO-BPAY
                        MMVR-PERS
                        MMVR-PLTO
                        MMVR-VEHR
                        MMVR-VEHT
                        MMVR-VTAB

## UGS1192P - GUEST OUTPUT

INPUT:                Host-to-guest block from UHS1193P containing the reg/owner and the total fee owed, or any error messages generated by the Guest Input or the Host Retrieval programs.

PROCESS: The information in the host-to-guest block is moved to the common area and displayed on the screen.  If no errors occurred, the reg/owner information is displayed on the screen and the reg and owner surrogates are moved to the common area so that they may be used for screen hopping.

The scrolling area of the common area is built so as to appear that COR is a duplicate resolution screen.  Thus F9 can be pressed to "return" to COR1.

OUTPUT: Otherwise, the error message is displayed.

MESSAGES: 501192001 - Verify Information - F9 for  Detailed information

CALLED MODULES:    None

LINKED MODULES:    None


## DOCUMENTATION OF CASH OBLIGATION RESOLUTION HOST INTERFACE

**COR2 - Request for reg/owner and fee information by plate type and registration number or by VEHR surrogate.**

This request invokes the host program (UHS1193P) to obtain all the above information for a reg.  The information is retrieved and then transmitted back to the guest.

INPUT DESCRIPTION (GUEST-TO-HOST BLOCK):  662 bytes.
All displacements are relative to 0.

| FROM | TO | LENGTH | FORMAT | DESCRIPTION |
|------|------|--------|-----------|-----------------------------|
| 0000 | 0061 | 62 | Character | Reserved for UMS host interface |
| 0062 | 0065 | 04 | Binary | Error code |
| 0066 | 0067 | 02 | Character | BMS data |
| 0068 | 0070 | 03 | Character | Plate type |
| 0071 | 0072 | 02 | Character | BMS data |
| 0073 | 0079 | 07 | Character | Reg number |
| 0080 | 0081 | 02 | Character | BMS data |
| 0082 | 0082 | 01 | Character | Plate color |
| 0083 | 0084 | 02 | Character | BMS data |
| 0085 | 0093 | 09 | Character | Key License |
| 0094 | 0095 | 02 | Character | BMS data |

| | | | | |
|---|---|---|---|---|
| 0096 | 0104 | 09 | Character | Owner 1 license |
| 0105 | 0106 | 02 | Character | BMS data |
| 0107 | 0115 | 09 | Character | Owner 2 license |
| 0116 | 0117 | 02 | Character | BMS data |
| 0118 | 0126 | 09 | Character | Federal ID |
| 0127 | 0128 | 02 | Character | BMS data |
| 0129 | 0144 | 16 | Character | Owner 1 last name |
| 0145 | 0146 | 02 | Character | BMS data |
| 0147 | 0158 | 12 | Character | Owner 1 first name |
| 0159 | 0160 | 02 | Character | BMS data |
| 0161 | 0168 | 08 | Character | Owner 1 middle name |
| 0169 | 0170 | 02 | Character | BMS data |
| 0171 | 0172 | 02 | Character | Owner 1 date of birth |
| 0173 | 0174 | 02 | Character | BMS data |
| 0175 | 0190 | 16 | Character | Owner 2 last name |
| 0191 | 0192 | 02 | Character | BMS data |
| 0193 | 0204 | 12 | Character | Owner 2 first name |
| 0205 | 0206 | 02 | Character | BMS data |
| 0207 | 0214 | 08 | Character | Owner 2 middle name |
| 0215 | 0216 | 02 | Character | BMS data |
| 0217 | 0218 | 02 | Character | Owner 2 date of birth |
| 0219 | 0220 | 02 | Character | BMS data |
| 0221 | 0283 | 63 | Character | Company name |
| 0284 | 0285 | 02 | Character | BMS data |
| 0286 | 0294 | 09 | Character | Lessee License |
| 0295 | 0296 | 02 | Character | BMS data |
| 0297 | 0305 | 09 | Character | Lessee federal id |
| 0306 | 0307 | 02 | Character | BMS data |
| 0308 | 0323 | 16 | Character | Lessee last name |
| 0324 | 0325 | 02 | Character | BMS data |
| 0326 | 0337 | 12 | Character | Lessee first name |
| 0338 | 0339 | 02 | Character | BMS data |
| 0340 | 0347 | 08 | Character | Lessee middle name |
| 0348 | 0349 | 02 | Character | BMS data |
| 0350 | 0351 | 02 | Character | Lessee date of birth |
| 0352 | 0353 | 02 | Character | BMS data |
| 0354 | 0417 | 64 | Character | Lessee company name |
| 0418 | 0419 | 02 | Character | BMS data |
| 0420 | 0423 | 04 | Character | Reg primary status |
| 0424 | 0425 | 02 | Character | BMS data |
| 0426 | 0429 | 04 | Character | Reg secondary status |
| 0430 | 0431 | 02 | Character | BMS data |
| 0432 | 0433 | 02 | Character | Reg status date |
| 0434 | 0435 | 02 | Character | BMS data |
| 0436 | 0437 | 02 | Character | Reg effective date |
| 0438 | 0439 | 02 | Character | BMS data |

| | | | | |
|------|------|----|-----------|---------------------------|
| 0440 | 0441 | 02 | Character | Reg expiration date |
| 0442 | 0443 | 02 | Character | BMS data |
| 0444 | 0452 | 09 | Character | Total fees |
| 0453 | 0456 | 04 | Binary | Vehr surrogate |
| 0457 | 0460 | 04 | Binary | Owner surrogate |
| 0461 | 0461 | 01 | Character | Owner type |
| 0462 | 0464 | 03 | Character | Filler |
| 0465 | 0466 | 02 | Binary | Cursor position |
| 0467 | 0516 | 50 | Character | Error message |
| 0517 | 0518 | 02 | Binary | Today's date |
| 0519 | 0519 | 01 | Character | Save plate BMS data |
| 0520 | 0520 | 01 | Character | Save plate type BMS data |
| 0521 | 0521 | 01 | Character | Save reg number BMS data |
| 0522 | 0522 | 01 | Character | Save reg number BMS data |
| 0523 | 0523 | 01 | Character | Save plate color BMS data |
| 0524 | 0524 | 01 | Character | Save plate color BMS data |
| 0525 | 0525 | 01 | Character | Save license BMS data |
| 0526 | 0526 | 01 | Character | Save license BMS data |
| 0527 | 0527 | 01 | Character | Host status indicator |
| | | | | 1-inquiry complete |
| | | | | 2-update complete |
| | | | | 3-dup regs found |
| | | | | 4-dups lics found |
| | | | | 7-normal error |
| | | | | 8-lr error |
| | | | | 9-db error |

OUTPUT DESCRIPTION (HOST-TO-GUEST BLOCK):  622 bytes.
                                   All displacements are relative to 0.

Same as the guest-to-host block above.

# 3 Cash Obligation Resolution Detail

## COR1 Function

TITLE: CASH OBLIGATION RESOLUTION DETAIL

DESCRIPTION: The COR1 function is used to display detail information with the amounts owed and the total amount owed for a registration. To use this screen, first enter COR, then press F9. No function code change is needed.

COR1 is also modular, calling the various subprograms as needed.

This screen can "hop" to RI or UVH by changing the function code to the desired screen and pressing the F6 key.

This screen can "hop" to an appropriate screen, such as the CIC screen, for a citation by changing the function code, putting the cursor on the appropriate line, and hitting enter.

To return to COR, simply press F9 again.

NOTE: A typical use of the COR1 screen would be to display all the items that cause a fee to be owed against the registration.

COMPONENTS: *Guest input program*
UGS1201P

*Guest output program*
UGS1202P

*Host program(s)*
UHS1120P

*Lr*
UHS1195L
UHS1196L
UHS1197L
UHS1198L
UHS1199L

UHS1190L

*Map*
UGS1200M

*Lx table*
UGS1200T

*Copy books*

| | |
|---|---|
| UGZCOMMY | (UGS1201P, UGS1202P) |
| UHZCOMMY | (UHS1203P) |
| UGS120AY | (UGS1201P, UGS1202P) |
| UGS120BY | (UGS1201P, UGS1202P, UHS1203P) |
| UIS120CY | (UHS1203P) |
| UHRREGSY | (UHS1203P) |
| UILXCNST | (UGS1202P) |
| UHUILOGY | (UHS1195P, UHS1196P, UHS1197P, UHS1198P, UHS1199P, UHS1190P) |
| UHS1195Y | (UHS1203P, UHS1195P) |
| UHS1196Y | (UHS1203P, UHS1196P) |
| UHS1197Y | (UHS1203P, UHS1197P) |
| UHS1198Y | (UHS1203P, UHS1198P) |
| UHS1199Y | (UHS1203P, UHS1199P) |
| UHS1190Y | (UHS1203P, UHS1190P) |

*External name*
COR1

*Internal name*
COR4 (to access by reg)

AVAILABLE FUNCTION KEYS:

F1 - Main Menu
F2 - UMS subsession
F3 - Not available
F4 - Screen hopping
F5 - Not available
F6 - Screen hopping
F7 - Page backward
F8 - Page forward
F9 - Return to COR
F10 - Not available
F11 - Not available
F12 - Not available

NOTE:  F6 and F4 require function change

## UGS1201P - GUEST INPUT

INPUT:              *Map*
                    UGS1200M

                    *Data*
                    Passed from COR.

PROCESS:            If the program is being accessed for the first time, the first page of
                    the details is displayed.  Otherwise, the appropriate page is
                    displayed.

                    The surrogate is moved to a part of the common area, called the
                    guest-to-host block, that is sent to the Host Retrieval program
                    (UHS1203P).  Also, the internal name COR4 is moved to the
                    guest-to-host block.

OUTPUT:             The reg surrogate (pers in the next release) and the internal name
                    are passed to the host driver UHS1203P.

MESSAGES:           501201001 - Invalid entry into COR1
                    501201002 - Use function keys to scroll, exit etc.
                    501201003 - Invalid surrogate received from COR
                    501201004 - No more previous data to view
                    501201005 - No more data to view

CALLED MODULES:       None

## UHS1203P - HOST RETRIEVAL DRIVER

INPUT:              Guest-to-host block from UGS1201P

PROCESS:            This program serves as a driver only.  It links to UHS1195P to get
                    the effective actions, to UHS1196P for the blocking actions, to
                    UHS1197P for the tickets (not citations;  these are for parking,
                    excise tax and, abandoned vehicle only), to UHS1198P for
                    citations, to UHS1199P for bad payments, and to UHS1190P for

outstanding complaints.  Some of these are accessed again for pending items.

If any of the called programs returns an error, the error code will be passed to the guest output program for display.

If no errors are detected, the data is moved to the host-to-guest block and control is passed to the guest output program UGS1202P.

MESSAGES:   501203001 - No more data to view
501203002 - No more previous data to view
501203003 - Invalid scrolling
501203004 - Press F8 or F7
501203005 - Press F8 to view more data
501203006 - Press F7 to view previous
501203007 - Invalid date conversion
501203008 - Invalid date conversion
501203009 - Invalid date conversion
501203010 - Invalid date conversion

CALLED MODULES:  UICALLST - msg logging and date conversion

LINKED MODULES:  UHS1195P - actions on reg
           UHS1196P - blocking actions
           UHS1197P - tickets
           UHS1198P - citations
           UHS1199P - bad payments
           UHS1190P - complaints

DATA BASE RECORDS: None

## UHS1195P - HOST RETRIEVAL OF ACTIONS ON A REGISTRATION

INPUT:     Copybook UHS1195Y from UHS1203P

PROCESS:   This program reads for actions on a reg.  In general, one passes in the VEHR surrogate, a maximum number of actions to return (default = 100), a date to compare the effective date against, the type of compare (EQ,NE,LT,GT,LE,GE), the desired TYPE-PHYS-1 (A,E,R), and the desired TYPE-PHYS-2 (R,S,U,N,X).  In this case, we look for active actions effective today of any of

TYPE-PHYS-2.  The data is moved to copybook UHS1195Y and returned to the host driver, else an error message is returned.

MESSAGES:          501195001 - Run unit bind failed
                         501195002 - Table Overflow - Call DP
                         501195003 - Inquiry Process Complete
                         501195004 - Unknown Error - Call DP

CALLED MODULES:     None

LINKED MODULES:     None

DATA BASE RECORDS:  ***Retrieval***
                         MMVR-ACTN
                         MMVR-ACTN-ADJD
                         MMVR-DECI
                         MMVR-DECI-OFNS-R
                         MMVR-FTAB
                         MMVR-INCD-OFNS-R
                         MMVR-VTAB

## UHS1196P - HOST RETRIEVAL OF BLOCKING ACTIONS

INPUT:                Copybook UHS1196Y from UHS1203P

PROCESS:         This program reads for blocking actions on a reg owner.  In general, one passes in the owner surrogate and type, a maximum number of actions to return (default = 100), a date to compare the effective date against, the type of compare (EQ, NE, LT, GT, LE, GE), and the desired TYPE-PHYS-1 (A, E, R).  In this case, we look for active actions effective today.  The data is moved to copybook UHS1195Y and returned to the host driver, else an error message is returned.

MESSAGES:          501196001 - Run unit bind failed
                         501196002 - Table Overflow - Call DP
                         501196003 - Inquiry Process Complete
                         501196004 - Unknown Error - Call DP

CALLED MODULES:     None

LINKED MODULES:     None

DATA BASE RECORDS:    *Retrieval*
                  MMVR-ACTN
                  MMVR-ACTN-ADJD
                  MMVR-CITA
                  MMVR-DREG
                  MMVR-INCD-OFNS-R
                  MMVR-MSCO
                  MMVR-MSCO-BPAY
                  MMVR-PERS
                  MMVR-PLTO
                  MMVR-VEHR
                  MMVR-VEHT

## UHS1195P - HOST RETRIEVAL OF ACTIONS ON A REGISTRATION

INPUT:    Copybook UHS1195Y from UHS1203P

PROCESS:    This program reads for tickets on a reg.  As noted above, these are not citations; they are for abandoned vehicles, excise tax, and parking only.  In general, one passes in the VEHR surrogate and a maximum number of actions to return (default = 200).  In this case, we look for all tickets.  The data is moved to copybook UHS1197Y and returned to the host driver, else an error message is returned.

MESSAGES:    501197001 - Run unit bind failed
            501197002 - Table Overflow - Call DP
            501197003 - Inquiry Process Complete
            501197004 - Unknown Error - Call DP

CALLED MODULES:    None

LINKED MODULES:    None

DATA BASE RECORDS:    *Retrieval*
                  MMVR-TIKT
                  MMVR-TOWN

## UHS1198P - HOST RETRIEVAL OF CITATIONS

INPUT:    Copybook UHS1198Y from UHS1203P

PROCESS:        This program reads for citations on an owner.  In general, one passes in the VEHR surrogate, the owner surrogate and type, a maximum number of citations to return (default = 200),  today's date (to know if an associated  action is effective), CITA-TYPE (1, 2, 3, 4, 5), CITA-CODE (W, N, C, A, S, P), and whether to retrieve pending-only.  In this case, we look for citations of type 1 (active), and code P (payable).  The data is moved to copybook UHS1198Y and returned to the host driver, else an error message is returned.


MESSAGES:        501198001 - Run unit bind failed
                 501198002 - Table Overflow - Call DP
                 501198003 - Inquiry Process Complete
                 501198004 - Unknown Error - Call DP

CALLED MODULES:        None

LINKED MODULES:        None

DATA BASE RECORDS:  *Retrieval*
                 MMVR-ACTN
                 MMVR-ACTN-ADJD
                 MMVR-CITA
                 MMVR-DECI-OFNS-R
                 MMVR-DECI
                 MMVR-INCD-OFNS-R
                 MMVR-PCTA


## UHS1199P - HOST RETRIEVAL OF BAD PAYMENTS

INPUT:        Copybook UHS1199Y from UHS1203P

PROCESS:        This program reads for bad payment records on an owner.  In general, one passes in the owner surrogate and type, a maximum number of actions to return (default = 200), the desired MSCO-REC-STATUS (A, I), the desired MSCO-PAY-STATUS (D, P, U), and the desired ORIG-TXN-TYPE (B, C, D, L, P, R, T).  In this case, we look for active MSCOs with PAY-STATUS of unpaid and an original transaction of R (reg) or B (both reg and title).  The data is moved to copybook UHS1199Y and returned to the host driver, else an error message is returned.

MESSAGES:   501199001 - Run unit bind failed
        501199002 - Table Overflow - Call DP
        501199003 - Inquiry Process Complete
        501199004 - Unknown Error - Call DP

CALLED MODULES:  None

LINKED MODULES:  None

DATA BASE RECORDS: *Retrieval*
        MMVR-CITA
        MMVR-DREG
        MMVR-FTAB
        MMVR-INCD-OFNS-R
        MMVR-MSCO
        MMVR-MSCO-BPAY
        MMVR-PERS
        MMVR-PLTO
        MMVR-VEHR
        MMVR-VEHT
        MMVR-VTAB

## UHS1190P - HOST RETRIEVAL OF COMPLAINTS AGAINST A REGISTRATION

INPUT:     Copybook UHS1190Y from UHS1203P

PROCESS:   This program reads for complaints against a reg.  In general, one passes in the VEHR surrogate and a maximum number of complaints to return (default = 100).  In this case, we look for all complaints.  The data is moved to copybook UHS1190Y and returned to the host driver, else an error message is returned.

MESSAGES:   501190001 - Run unit bind failed
        501190002 - Table Overflow - Call DP
        501190003 - Inquiry Process Complete
        501190004 - Unknown Error - Call DP

CALLED MODULES:  None

LINKED MODULES:  None

DATA BASE RECORDS: *Retrieval*

MMVR-DECI
MMVR-DECI-OFNS-R
MMVR-VTAB

## UGS1202P - GUEST OUTPUT

INPUT:           Host-to-guest block from UHS1203P containing the details to be displayed on the current page, and the keys to get the previous and next pages, or any error messages generated by the Guest Input or the Host Retrieval  programs.

PROCESS:         The information in the host-to-guest block is moved to the common area and displayed on the screen.  If no errors occurred, the detail information is displayed on the screen and the various surrogates are moved to the common area so that they may be used for screen hopping.

                      The scrolling area is built as described in COR above.

OUTPUT:         Otherwise, the error message is displayed.

MESSAGES:     None

CALLED MODULES:     None

LINKED MODULES:     None

# 4      License History Inquiry

## LH Function

TITLE:                    LICENSE HISTORY INQUIRY

DESCRIPTION:     The LH function is used to request the history of a persons name
and license number changes.  Note that a change in a person's date
of birth is considered the same as a change of name.  The screen
displays the last three name changes as well as the last eight
license numbers held by that person.  For Commercial Drivers, the
LH "Extension Screen" (LHE), which can only be accessed from
LH, will display CDL-specific endorsement and restriction data.

COMPONENTS:     *Guest input program*
UGL0060P

*Guest output program(s)*
UGL0061P
UGL0062P

*Host program(s)*
UHL0060P
UHL0070P
UHL0080P
UHL0095P

*Map*
UGL0060M
UGL0062M

*Copy books*
UGZCOMMC          (UGL0060P, UGL0061P)
LI06                      (UGL0061P, UGL0060C)
REGEQU                (UGL0062P)
UGZCOMMA          (UGL0062P)
UMZCOMMA          (UGL0062P)
UGTRTABL            (UGL0062P)

*External name*
LH

*Internal name*
LH10  (Person lookup via current and previous Mass license)
LH20  (Person lookup via non-Mass license)
LH30  (Person lookup via pers-surrogate number)
LH40  (Endorsement and restriction lookup via surrogate number
        for LHE <u>only</u>)

AVAILABLE FUNCTION KEYS:

F1   -   End session
F2   -   Main Menu
F3   -   Not available
F4   -   Not available
F5   -   Not available
F6   -   Jump to screen
F7   -   Not available
F8   -   Not available
F9   -   Not available
F10  -  Not available
F11  -  Rescroll
F12  -  Not available

## UGL0060P - Input Screen Handler

INPUT:              *Map*
                    UGL0060M

                    *Data*
                    License Number
                    License State
                    Previous License or Commercial Indicator

PROCESS:       After initialization, the program determines from where and under
                    what circumstances it was accessed.

                    If access is from a first time call, the message LH SCREEN
                    DISPLAYED, PLEASE PROCEED is displayed back to the user
                    screen for entry of the appropriate input license number and
                    previous license or commercial indicator.

If access is via F4 or F9 (from a scroll program) the person's surrogate number is passed via the LH30 function to the host side for data retrieval.

If access is via a normal request for license information (ENTER key, or F6), the license number and license state are edited via called program UICALLST. The previous license number/commercial indicator is also validated and, if invalid (not equal to an X, a C or a space), the message INVALID-PREV/COMMERCIAL MUST BE "X" OR "C" is displayed back to the user screen for Massachusetts drivers, or the message INVALID-OOS PREV/COMMERCIAL MUST BE "C" for out of state drivers. If the data is valid and the state code is spaces or MA, then pass the license number via host function LH10. If the state is not spaces or not equal to MA, then pass the license number and license state code via function LH20. If the previous license number/commercial indicator is a C, then pass the endorsement and restriction data for the LHE screen via host function LH40.

OUTPUT:    If no errors are detected, the appropriate host request transaction is formatted and passed via the protocol processor for use by the appropriate host program. If an error is detected, the output is a message displayed back to the user requesting further action.

MESSAGES:    200001015  - LH screen displayed please proceed
200001017  - Invalid-Prev/Commercial Must be "X" or "C"
200001018  - Invalid-OOS Prev/Commercial Must be "C"


*Invalid Mass license*
*License invalid*
*License number not found*
*State invalid*

CALLED MODULES:    UICALLST (calls various edit sub modules)


## UGL0061P - Output Screen Handler

INPUT:    License information retrieved by host function LH10, LH20, or LH30 and passed to this program for display.

PROCESS: After initialization, the program formats the screen, and displays it back to the user with the message INQUIRY PROCESS COMPLETE.

 * If the previous/commercial license indicator was entered a 'C,' the output extension program UGL0062P is executed.

OUTPUT: *Map*
UGL0060M

 *Data*
A formatted screen displayed back to the user containing current name, date of birth, sex, height, last three previous names and dates of birth, and last eight previous license numbers with all associated data.

MESSAGES: 200001007  -  Inquiry process complete

CALLED MODULES: UICALLST -  (calls the date routine)


## UGL0062P - License History Extension Screen

INPUT: License information passed to this program via common area

PROCESS: Pass the surrogate number via host function LH40 to retrieve license history commercial information.

 When this information retrieved the program formats the screen, and displays it back to the user with the message END OF SET.

OUTPUT: *Map*
UGL0062M

 *Data*
A formatted screen displayed back to the user containing current name, date of birth, and current endorsements information (endorsement code, endorsement status, endorsement effective date, previous license information).

MESSAGES: 202001001  -  F7 invalid beginning of set
202001002  -  F8 invalid end of set
202001003  -  End of set

# 5     Unique License Number Inquiry

## LI Function

TITLE:               UNIQUE LICENSE INQUIRY SCREEN

DESCRIPTION:     The LI function is used to request information pertaining to a current or previous driver's license number. It obtains personal information (name, mailing address and residence) as well as restriction data, previous name, license status, endorsements, and placard information.

COMPONENTS:    *Guest input program*
UGL1070P

*Guest output program*
UGL1071P

*Host program(s)*
LI07    Lic Inquiry by Lic#     UHL0070P
LI08    Lic Inquiry by OOS# UHL0080P
LI09    Lic Inquiry by SSN     UHL0090P
LI10    Lic Inquiry by Surrogate      UHL0100P, UHL0110P
LI12    Endorsement Inquiry by Surrogate    UHL0120P
LB10    Generalized Fetcher of Brefs  UHL0420P
PR05    Passenger Restriction Inquiry UHL3205P
LI96    Generate expiration date (only permit for) UHL0960P
LXP1    PDPS Pers-Ext Type "6" Lookup     UHL0610P

*Map*
UGL1070M

*Copy books*
UGZCOMMC        (UGL1070P, UGL1071P)
UGL1070G         (UGL1070P, UGL1071P)
UMLLI12O         (UGL1071P)
UMSLXZT          (UGL1071P)
UMLLB10O         (UGL1070P, UGL1071P)
UMLLB10R         (UGL1070P, UGL1071P)
UMLLI12R          (UGL1070P, UGL1071P)

UMLLXP1R          (UGL1070P, UGL1071P)
UMLLXP1O          (UGL1070P, UGL1071P)
UMLPR0SR          (UGL1070P, UGL1071P)
UMLPR0SO          (UGL1070P, UGL1071P)
UMLLI96R          (UGL1070P, UGL1071P)
UMLLI96O          (UGL1070P, UGL1071P)

*LX table*
UGL1070T

*External name*
LI

*Internal name*
LI07 (Person lookup via current and previous Mass license)
LI08 (Person lookup via non-Mass license)
LI09 (Person lookup via social security number)
LI10 (Person lookup via person surrogate number)

## AVAILABLE FUNCTION KEYS:

F1  - Main Menu
F2  - UMS Submenu screen
F3  - Not available
F4  - Not available
F5  - Not available
F6  - Jump to screen
F7  - Not available
F8  - Not available
F9  - Not available
F10 - Not available
F11 - Not available
F12 - Not available

## UGL1070P - INPUT SCREEN HANDLER

INPUT:            *Map*
                  UGL0070M

                  *Data*
                  License Number
                  License State
                  Social Security Number
                  Previous License Indicator

PROCESS:       After initialization, the program determines from where and under what circumstances it was accessed.

If access is from a first time call, the message LI SCREEN DISPLAYED, PLEASE PROCEED displays back to the user screen for entry of the appropriate input license number and previous license indicator.

If access is via F4 or F9 (from a scroll program) the necessary controls and keys are established and passed to UHL0070P for retrieval of the requested license information.

If access is via a normal request for license information ("enter" key, or F6), the license number, license state, and social security number are edited via called program UICALLST.  The previous license number indicator is also validated and if it is invalid (not equal to an X or a space), the message INVALID PREVIOUS INDICATOR - ENTER X is displayed back to the user screen.  If all screen input is valid, the necessary controls and keys are established and control is passed to the appropriate host program for retrieval of the requested license information.

OUTPUT:        If no errors are detected, the appropriate host request transaction is formatted and passed via the protocol processor for use by the appropriate host program.  If an error is detected, the output is a message displayed back to the user requesting further action.

MESSAGES:      200001004 - Invalid previous indicator enter X
200001005 - LI screen displayed please proceed
200001016 - Invalid Social Security Number
105003001 - Invalid Mass license
105006003 - License invalid
200001006 - License number not found
108000002 - State invalid
200001014 - Social security number must be numeric
906002012 - Social security number not found
213000012 - Enter License Number or SSN

CALLED MODULES:      UICALLST (calls various edit submodules)

## UGL1071P - OUTPUT SCREEN HANDLER

INPUT:              License information retrieved by host function LI07 or LI08 or LI09 or LI10 and passed to this program for display, and endorsement data retrieved by host function LI12 and passed to this program for display.

PROCESS:            After initialization, the program formats the screen, and displays it back to the user with the message INQUIRY PROCESS COMPLETE.

OUTPUT:             *Map*
                    UGL0070M

                    *Data*
                    A formatted screen displayed back to the user containing license information and endorsement data, if any, or an error message.  If the person has more than one previous name or has a previous license number, the MORE HISTORY field displays a Y.  This can be viewed via the LTH screen.

MESSAGES:           200001007 - Inquiry process complete
                    230001002 - Unable to obtain endorsements date. . .try again
                    230001003 - Unable to obtain cell data. . .try again
                    212017129 - Gen. Permit exp date: Request blu field is in error

CALLED MODULES:     None

# 6

# Duplicate License Number Inquiry

## LN Function

TITLE:              LICENSE NUMBER SCROLL

DESCRIPTION:        The LN function is used to display any duplicate license numbers
                    in the system.  The license number is a required field.  This
                    function is invoked in one of two ways:

  ♦ By entering LN in the function field
  ♦ Automatically, when a duplicate license number is
    detected by any of the other licensing functions.

                    Once LN is invoked by another function, the user can return to the
                    original function by positioning the cursor at the desired license
                    information and pressing F9.  Up to 7 licenses display per page.

COMPONENTS:         *Guest input program*
                    UGL0020P

                    *Guest output program*
                    UGL0021P

                    *Host program(s)*
                    UHL0020P - License Number Scroll

                    *Map*
                    UGL0020M

                    *Copy books*
                    REGEQU
                    UGZCOMMA
                    UHZCOMMA
                    UGTRTABL (UGL0020P)

                    *External name*
                    LN

                    *Internal name*

LI04

AVAILABLE FUNCTION KEYS:

      F1  - Main Menu
      F2  - UMS Submenu screen
      F3  - Not available
      F4  - Select from scroll screen
      F5  - Not available
      F6  - Not available
      F7  - Page backward
      F8  - Page forward
      F9  - Select from scroll and refresh
            previous screen
      F10 - Not available
      F11 - Not available
      F12 - Not available

      NOTE: F4 requires a function change

## UGL0020P - INPUT SCREEN HANDLER

INPUT:           *Map*
                    UGL0020M

                    *Data*
                    License number (Required)

PROCESS:     After initialization, the program determines from where and under what circumstances it was accessed.  If access is via a normal request for license number information, the license number is validated by a called module, UICALLST.

                    If the license number is invalid, an error message displays.  If the license number passes validation, the necessary controls and keys are established, and control passes to UHL0020P for retrieval of the requested information.

                    If access is internal, this program serves as a pass-through to the host and output modules.  If access is via F7 and the screen is currently on the first page, the message FIRST RECORD DISPLAYED displays.  Otherwise, the screen scrolls backward one page at a time until the first page is reached.

If access is via F8, and the screen is currently on the last page, the message END OF SET ENCOUNTERED displays.  Otherwise, the screen scrolls forward until the last page displays.

OUTPUT:  If no errors are detected, the output is controls and keys established in the common area for use by the host program.  If an error is detected, the error message number is the output.

MESSAGES:  202001004  -  First record displayed
202001001  -  License number is invalid
202001003  -  End of set encountered

CALLED MODULES:  UICALLST (call input editing routines)

## UHL0020P - LICENSE DUPLICATE INQUIRY

INPUT:  Controls and keys from UGL0020P

PROCESS:  After initialization, the program reads the database for a license number.  If it cannot locate any data for the requested license, the message LICENSE NUMBER NOT FOUND displays.  Otherwise, the successfully retrieved data passes to UGL0021P for output formatting.

OUTPUT:  Error message number 202001002 or up to 7 records matching the requested license number.

MESSAGES:  202001002 - License number not found
202001004 - First record displayed
202001001 - License number is invalid
202001003 - End of set encountered

CALLED MODULES:  None

## UGL0021P - OUTPUT SCREEN HANDLER

INPUT:  License information retrieved by UHL0020P or any error messages produced by the input screen handler or host program and passed to this program for display.

PROCESS:  After initialization, the program formats the screen and displays it back to the user.  If the screen displayed contains all of the

requested data, the message END OF SET ENCOUNTERED displays in the message line.

OUTPUT:  *Map*
UGL0020M

MESSAGES:  202001003  -  End of set encountered

CALLED MODULES:  UICALLST (call date conversion routines)

# 7     Out-of-State Duplicate License Inquiry

## LNO Function

TITLE:                 OUT-OF-STATE LICENSE NUMBER SCROLL

DESCRIPTION:      The LNO function displays any duplicate out-of-state license numbers in the system. License number and state are required fields. The LNO function is invoked in one of two ways:

- ♦ By entering LNO in the function field
- ♦ Automatically, when a duplicate out-of-state license number is detected by any of the other licensing functions.

When LNO is invoked by another function, the user can return to the original function by positioning the cursor at the desired license information and pressing F9. Up to 7 licenses display per page.

COMPONENTS:      *Guest input program*
UGL0240P

*Guest output program*
UGL0241P

*Host program(s)*
UHL0520P - LD08 Duplicate OOS Scroll

*Map*
UGL0240M

*LX table*
UGL0240T

*Copy books*
UMSLXMAC
REGEQU
UGZCOMMA
UGL0240C
UHZCOMMA

UGTRTABL (UGL0240P)

*External name*
LNO

*Internal name*
LD08

AVAILABLE FUNCTION KEYS:

F1  - Main Menu
F2  - UMS Submenu Screen
F3  - Not available
F4  - Select from scroll Screen
F5  - Not available
F6  - Not available
F7  - Page backward
F8  - Page forward
F9  - Select from scroll and refresh
       previous screen
F10 - Not available
F11 - Not available
F12 - Not available

NOTE: F4 requires a function change

## UGL0240P - INPUT SCREEN HANDLER

INPUT:          *Map*
                UGL0240M

                *Data*
                License number (Required)
                State (Required)

PROCESS:        After initialization, the program determines from where and under
                what circumstances it was accessed.

                If access is via a normal request for out-of-state license number
                information, the license number and state are validated.  If either
                field is invalid, an error message displays.  If the license number
                and state pass validation, the necessary controls and keys are
                established and control passes to UHL0520P for retrieval of the
                requested information.

If access is internal, this program serves as a pass-through to the host and output modules.

If access is via F7 and the screen is currently on the first page, the message FIRST RECORD DISPLAYED displays. Otherwise, the screen scrolls back one page at a time until the first page is reached.

If access is via F8, and the screen is currently on the last page, the message END OF SET ENCOUNTERED displays. Otherwise, the screen scrolls forward until the last page displays.

OUTPUT: If no errors are detected, the output is control and keys established in the common area for use by the host program. If an error is detected, the error message number is the output.

MESSAGES: 202001004 - First record displayed
105009001 - Value invalid
202001003 - End of set encountered

CALLED MODULES: UHL0520P


# UHL0520P - OOS LICENSE DUPLICATE INQUIRY RETRIEVAL

INPUT: Controls and keys from UGL0240P

PROCESS: After initialization, the program reads the database for an out-of-state license number. If no data can be found for the requested license number and state, the message NO RECORDS FOR THIS KEY ON DATABASE is sent back. Otherwise, the successfully retrieved data passes to UGL0241P for output formatting.

OUTPUT: Error message number 203001002, or up to 7 records matching the requested license number and state.

MESSAGES: 203001002 - No records for this key on database

CALLED MODULES: None

## UGL0241P - OUTPUT SCREEN HANDLER

INPUT:    License information retrieved by UHL0520P or any error messages produced by the input screen handler or host program passes to this program for display.

PROCESS:   After initialization, the program formats the screen and displays it back to the user. If the screen displayed contains all of the requested data, the message END OF SET ENCOUNTERED displays on the message line.

OUTPUT:   *Map*
      UGL0420M

MESSAGES:   203001002 - No records for this key on database

CALLED MODULES:  UICALLST (call date conversion routines)

# 8 Social Security Number Duplicate Inquiry

## LNS Function

TITLE:                  SOCIAL SECURITY NUMBER SCROLL

DESCRIPTION:    The LNS function displays any duplicate social security numbers
in the system.  LNS is invoked in one of two ways:

♦ By entering LNS in the function field
♦ Automatically, when a duplicate social security number
is detected by any of the other licensing functions.

When LNS is invoked by another function, the user can return to
the original function by positioning the cursor at the desired social
security number information, and pressing F9.  Up to 7 social
security numbers display per page.

COMPONENTS:    *Guest input program*
UGL0220P

*Guest output program*
UGL0221P

*Host program(s)*
UHL0500P - LD04 Duplicate SSN Scroll

*Map*
UGL0220M

*LX table*
UGL0220T
200001016 - Invalid Social Security Number

*Copy books*
UMSLXMAC
REGEQU
UGZCOMMA
UGL0220C
UHZCOMMA

UGTRTABL (UGL0220P)


*External Name*
LNS


*Internal Name*
LD04

AVAILABLE FUNCTION KEYS:


      F1  - Main Menu
      F2  - UMS Submenu screen
      F3  - Not available
      F4  - Select from scroll screen
      F5  - Not available
      F6  - Not available
      F7  - Page backward
      F8  - Page forward
      F9  - Select from scroll
           and refresh previous screen
      F10 - Not available
      F11 - Not available
      F12 - Not available


      NOTE: F4 requires a function change


## UGL0220P - INPUT SCREEN HANDLER

INPUT:           *Map*
                  UGL0220M

                  *Data*
                  Social Security number (Required)

PROCESS:     After initialization, the program determines from where and under what circumstances it was accessed.

                  If access is via a normal request for social security number information, the social security number is validated.  If the social security number is invalid, an error message displays.  If the social security number passes validation, the necessary controls and keys are established and control passes to UHL0500P for retrieval of the requested information.

If access is internal, this program serves as a pass-through to the host and output modules.

If access is via F7, and the screen is currently on the first page, the message FIRST RECORD DISPLAYED displays.  Otherwise, the screen scrolls backward one page at a time until the first page is reached.

If access is via F8, and the screen is currently on the last page, the message END OF SET ENCOUNTERED displays.  Otherwise, the screen scrolls forward until the last page displays.

OUTPUT:           If no errors are detected, the output is controls and keys established in the common area for use by the host program.  If an error is detected, the error message number is the output.

MESSAGES:         202001004  -  First record displayed
                  105009001  -  Invalid social security number
                  202001003  -  End of set encountered

CALLED MODULES:        UHL0500P


## UHL0500P - SOCIAL SECURITY DUPLICATE INQUIRY

INPUT:            Controls and keys from UGL0220P

PROCESS:          After initialization, the program reads the database for a social security number.  If no data can be found for the requested social security number, the message NO RECORDS FOR THIS KEY ON DATABASE displays.  Otherwise, the successfully retrieved data passes to UGL0221P for output formatting.

OUTPUT:           Error message number 203001002 or up to 7 records matching the requested social security number.

MESSAGES:         203001002  -  No records for this key on database

CALLED MODULES:        None

## UGL0221P - OUTPUT SCREEN HANDLER

INPUT:              License information, based on social security number, retrieved by UHL0500P or any error messages produced by the input screen handler or host program, and passed to this program for display.

PROCESS:            After initialization, the program formats the screen and displays it back to the user.  If the screen being displayed contains all of the requested data, the message END OF SET ENCOUNTERED displays on the message line.

OUTPUT:             *Map*
                    UGL0420M

MESSAGES:           202001003  -  End of set encountered

CALLED MODULES:        UICALLST (call date conversion routines)

# 9    License Transaction History

## LTH Function

TITLE:              LICENSE TRANSACTION HISTORY

DESCRIPTION:    LTH provides a list of all transactions, along with transaction history, associated with a license.  Each transaction displays the transaction date, associated fee, batch number, and explanation of the transaction code.  This function also includes summarized cash records, NDR BREF records, transaction codes and descriptions, in addition to the license holder's name, address, and date of birth.  All changes made on the LC screen are displayed, as well as all changes to date.

The LTH function is invoked by entering LTH in the FUNCTION field.  Up to 15 transactions are displayed per page.

COMPONENTS:    *Guest input program*
UGL0260P

*Guest output program*
UGL0261P

*Host program(s)*
UHL0070P (LI07)
UHL0080P (LI08)
UHL0100P (LI10)
UHL0110P
UHL0420P (LB10 - BREFS)

*Map*
UGL0260M

*LX table*
UGL0260T
200001016 - Invalid Security Number

*Transaction code table*
UGL0262P - Bref description table

*Copy books*
UMSLXMAC
REGEQU
UGZCOMMA
UGL0260C
UHZCOMMA

*External name*
LTH

*Internal name*
LI07/LB10 or LI08/LB10

AVAILABLE FUNCTION KEYS:

F1 - Main Menu
F2 - UMS Submenu screen
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Next function with current key
F7 - Page backward
F8 - Page forward
F9 - Not available
F10 - Not available
F11 - Not available
F12 - Not available

## UGL0260P - INPUT SCREEN HANDLER

INPUT:            *Map*
                  UGL0260M

                  *Data*
                  License number        (Required)
                  State                 (Required for out-of-state license)

PROCESS:          After initialization, the program determines which key fields were
                  entered and validates them.  If the key fields are invalid, the
                  program displays an error message.  Once the key fields have
                  passed validation, the necessary controls and keys are established
                  and control passes to the appropriate host modules for the retrieval
                  of the license and transaction information.  If a MA license number

was entered, LI07 obtains the license information.  If an out-of-state number and state were entered, LI08 obtains the license information.  Control is then passed to UHL0420P to retrieve the transaction history (BREF records) from the database.  If access is via F7 and the screen is currently on the first page, the message F7 INVALID - AT BEGINNING OF SET displays.  Otherwise, the screen scrolls backward one page at a time until the first page is reached.  If access is via F8, and the screen is currently on the last page, the message F8 INVALID -  AT END OF SET displays.  Otherwise, the screen scrolls forward until the last page displays.

For both scrolling keys, only the transaction history is scrolled.  The license information at the top of the screen remains constant.

OUTPUT:           If no errors are detected, the output is controls and keys established in the common area for use by the host programs.  If an error is detected, the error message number is the output.

MESSAGES:       206003001 - Function key or enter invalid at this time
                         200001016 - Lic# or SS# required
                         206003008 - F7 invalid beginning of set
                         206003009 - F8 invalid at end of set
                         206003010 - Phase count-internal error

CALLED MODULES:     None

## UHL0420P - BREF RETRIEVAL

INPUT:             Control and keys from UGL0260P

PROCESS:         After initialization, the program reads the database for BREF records.  If there are any database errors, one of the error messages is sent back.  Otherwise, the successfully retrieved data is passed to UGL0261P for output formatting.

OUTPUT:           Error message number, or up to 82 BREF records matching the requested license number.

MESSAGES:       208003001 - Bind error
                         208003002 - Ready error

CALLED MODULES:     None

## UGL0261P - OUTPUT SCREEN HANDLER

INPUT:              License information and BREF records retrieved by the host, or any error messages produced by the input screen handler or host programs and passed to this program for display.

PROCESS:            This program is invoked twice; once to format the license information and a second time to format the BREF records. After initialization, the program determines what phase it is processing. If the phase is 01, the program formats the license information received, saves it, sets the phase number to 03, formats the common area for the LB10 request, and returns. If the phase is 03, the program retrieves the license information previously saved, formats the BREF records received, and displays the screen. If the screen displayed contains only license data, the message NO HISTORY RECORDS FOR THIS PERSON displays in the message line.

OUTPUT:             *Map*
                    UGL0260M

MESSAGES:           200004001 - Logic internal error
                    206004002 - No history records for this person

CALLED MODULES:         UICALLST (call date conversion routines)

# 10    **MRB Submenu Screen**

## MRBS Function

TITLE:                  MRB DUPLICATE LICENSE SCROLL

DESCRIPTION:      The MRBS function displays any duplicate license numbers, both MA and out-of-state, in the system.  This function differs from the LN function in that it makes no distinction between current and previous license numbers when displaying duplicates.  Additionally, if the keywords "NOLICENSE" for license and "XX" for license state are used, the MRBS function will accept a name and date of birth which limits the display to only those "nolicense" person records that match.  As an added bonus on NOLICENSE, if the date of birth is null and the name begins with an '*', the display will show a list of all companies with names that match.

The MRBS function can only be invoked by another function for duplicate resolution.  The user can then return to the original function by positioning the cursor at the desired person/company information and pressing F9.  Up to seven persons/companies are displayed per page.

COMPONENTS:      *Guest input program*
UGM0001P

*Guest output program*
UGM0002P

*Host program(s)*
UHM0002P

*Map*
UGM0001M

*LX Table*
UGM0001T

*Copy books*
UMSLXZT
UGZCOMMC
UGM0001C
UHZCOMMY

*External name*
MRBS

*Internal name*
MRBX

AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - Main menu
F3 - Not available
F4 - Select from scroll screen
F5 - Not available
F6 - Not available
F7 - Page backward
F8 - Page forward
F9 - Select from scroll and refresh previous screen
F10 - Not available
F11 - Not available
F12 - Not available

NOTE:  F4 requires a function change

## UGM0001P - INPUT REQUEST HANDLER

INPUT:
*Map*
UGM0001M

*Data*
MRBX host data:
License
License state
Name
Date of birth

PROCESS:
After initialization, the program determines from where and under what circumstances it was accessed.

First time access directly from a terminal is not allowed.

If access is from an internal dupkey request, the screen area is cleared, and a start browse request is sent to the MRBX host module for pass through to the output screen handler.

If accessed via the ENTER key (after the first display), the screen "sendback" module is called.

If accessed via F7, the MRBX host module is called with a request for page back and pass through to the output screen handler.

If accessed via F8, the MRBX host module is called with a request for page forward and pass through to the output screen handler.

OUTPUT: If no errors are detected, the MRBX host information and request type are placed in the host common area. If an error is detected, the error message number is displayed.

MESSAGES: 100000005 - Invalid module call

CALLED MODULES: None

## UGM0002P - OUTPUT SCREEN HANDLER

INPUT: Person/company information retrieved by the UHM0002P or any error message returned by the host program.

PROCESS: Fills in the scroll table surrogate key information, formats the screen, and displays it back to the user.

OUTPUT: *Map*
UGM0001P

MESSAGES: 201001006 - End of set encountered
201001016 - Press F7 or F8 for more information
600000004 - No record found for dbkey
600000006 - Cursor to selection and F9 - F8 for more
600000007 - Cursor to selection and F9 - all recs displayed
610000002 - Invalid key press or function call
610000015 - Unexpected database error

CALLED MODULES: None

## DOCUMENTATION OF UNINSURED MOTORIST HOST INTERFACE

**MRBX - This function is used to obtain person/company information for the MRB duplicate license number/NOLICENSE XX resolution.**

INPUT DESCRIPTION:    498 bytes.  All displacements are relative to 0.

| FROM | TO | LENGTH | FORMAT | DESCRIPTION |
|---|---|---|---|---|
| 0000 | 0039 | 40 | Mixed | Reserved for UMS host interface |
| 0040 | 0064 | 25 | Character | License number |
| 0065 | 0066 | 02 | Character | State |
| 0067 | 0082 | 16 | Character | Name |
| 0083 | 0084 | 02 | Binary | Date of birth |
| 0085 | 0088 | 04 | Binary | Return code |
| 0089 | 0089 | 01 | Character | Request type |
| 0090 | 0093 | 04 | Binary | Index into dbkey table |
| 0094 | 0097 | 04 | Binary | Count of dbkey entries (100 max) |
| 0098 | 0497 | 400 | Binary | Dbkey entries (occurs 100) |

OUTPUT DESCRIPTION: 1093 bytes.  All displacements are relative to 0.

| FROM | TO | LENGTH | FORMAT | DESCRIPTION |
|---|---|---|---|---|
| 0000 | 0039 | 40 | Mixed | Reserved for UMS host interface |
| 0040 | 0064 | 25 | Character | License number |
| 0065 | 0066 | 02 | Character | State |
| 0067 | 0082 | 16 | Character | Name |
| 0083 | 0084 | 02 | Binary | Date of birth |
| 0085 | 0088 | 04 | Binary | Return code |
| 0089 | 0089 | 01 | Character | Request type |
| 0090 | 0093 | 04 | Binary | Index into dbkey table |
| 0094 | 0097 | 04 | Binary | Count of dbkey entries (100 max) |
| 0098 | 0497 | 400 | Binary | Dbkey entries (occurs 100) |
| 0498 | 0582 | 85 | Mixed | Person/company 1 data (see below) |
| 0498 | 0501 | 04 | Binary | Person/Nown surrogate number |
| 0502 | 0517 | 16 | Character | Person last name/company name |
| 0518 | 0529 | 12 | Character | Person first name |
| 0530 | 0537 | 08 | Character | Person middle name |
| 0538 | 0539 | 02 | Binary | Person date of birth |
| 0540 | 0559 | 20 | Character | Person/company street address |
| 0560 | 0574 | 15 | Character | Person/company city |
| 0575 | 0576 | 02 | Character | Person/company state |

| 0577 | 0582 | 06 | Mixed | Person/company zip code |

| FROM | TO | LENGTH | FORMAT | DESCRIPTION |
| --- | --- | --- | --- | --- |
| 0583 | 0667 | 85 | Mixed | Person/company 2 data |
| 0668 | 0752 | 85 | Mixed | Person/company 3 data |
| 0753 | 0837 | 85 | Mixed | Person/company 4 data |
| 0838 | 0922 | 85 | Mixed | Person/company 5 data |
| 0923 | 1007 | 85 | Mixed | Person/company 6 data |
| 1008 | 1092 | 85 | Mixed | Person/company 7 data |

# 11    Nonrenew Display Tickets for License

## NRL Function

TITLE:               NONRENEW DISPLAY TICKETS FOR LICENSE

DESCRIPTION:     The NRL function is used to review all of the outstanding tickets and/or excise bills for a license number.

                       When the license is entered, NRL will display unpaid parking tickets, abandoned vehicle citations, or excise bills marked against the license.

                       This function displays the license number, state, the license holder's date of birth, license holder's last name, first name, middle name, number of items marked against this particular license, the three digit code and name for each town that marked a ticket or bill for the license, the type of outstanding obligation marked (abandoned vehicle citation, excise non-payment or unpaid parking tickets), the year of the outstanding obligation, and the numbers or alphabetic characters assigned to the ticket or bill.

                       The NRL function is invoked by entering NRL in the FUNCTION field.

COMPONENTS:     *Guest input program*
                       UGN0040P
                       220002000 - Enter license
                       206003010 - Phase count - internal error
                       206003001 - Function key or enter invalid at this time
                       220002001 - F7 invalid-beginning of set
                       220002002 - F8 invalid-end of set

                       *Guest output program*
                       UGN0041P
                       226004001 - Logic internal - error
                       220002003  - End of set

                       *Host program (s)*
                       UHL0100P - LI10 - License inquiry by surrogate number

UHL0110P
UHL0070P - LI07 – License inquiry by license number
UHL0080P - LI08 – License inquiry by OOS number
UHN0040P - NR40 – Nonrenew indexed ticket inquiry

*Map*
UGN0040M

*LX table*
UGN0040T

*Copy books*
UMSLXMAC
REGEQU
UGZCOMMA
UGN0040C
UHZCOMMA

*External name*
NRL

*Internal name*
NR40

AVAILABLE FUNCTION KEYS:

    F1  -  Main menu
    F2  -  UMS Submenu screen
    F3  -  Not available
    F4  -  Not available
    F5  -  Not available
    F6  -  Next function with current key
    F7  -  Page backward
    F8  -  Page forward
    F9  -  Not available
    F10 - Not available
    F11 - Not available
    F12 - Not available

# UGN0040P – INPUT SCREEN HANDLER

INPUT:              *Map*
                      UGN0040M

*Data*
License number (required)
State (optional)

PROCESS:   After initialization, the program determines from where and what circumstances it was accessed.

       If access is via a normal request for outstanding tickets and/or excise bills for license information, the license number and state are validated. If either field is invalid, an error message displays.

       If the license number and state pass validation, the necessary controls and keys are established and control passes to UHN0040P for retrieval of the request information.

       If access is internal, this program serves as a pass-through to the host and output modules.

OUTPUT:    If no errors are detected, the output is control and keys established in the common area for use by the host program. If an error is detected, the error message number is the output.

MESSAGES:   220002000 - Enter license
       206003010 - Phase count – internal error
       206003001 - Function Key or enter invalid at this time
       220002001 - F7 invalid-beginning of set
       220002002 - F8 invalid-end of set

CALLED MODULES:  UHN0040P

## UHN0040P  - NONRENEW INDEXED TICKET INQUIRY

INPUT:     Controls and keys from UGN0040P

PROCESS:   After initialization, the program reads the database for the outstanding tickets and excise bills for the license number.

       If no data can be found for the requested license number and state, no information will be displayed and the message END OF SET is sent.

       Otherwise, the successfully retrieved data passes to UGN0041P for output formatting.

OUTPUT:        The output can contain the following:

      ◆  An error message
      ◆  Up to 15 records with unpaid parking tickets, abandoned vehicle citations, or excise bills for requested license number

MESSAGES:    None

CALLED MODULES:    None


## UGN0041P   -   OUTPUT SCREEN HANDLER

INPUT:      License information retrieved by UHN0040P or any error messages produced by the input screen handler or host program passed to this program for display.

PROCESS:    After initialization, the program formats the screen and displays it to the user.  If the screen displayed contains all requested data, the message END OF SET displays on the message line.

OUTPUT:      Map
                UGN0040M

MESSAGES:    220002003 - End of set
                226004001 - Logic internal error

CALLED MODULES:    None

# 12 Nonrenew Display Tickets for Registration

## NRR Function

TITLE:                      NONRENEW DISPLAY TICKETS FOR REGISTRATION

DESCRIPTION:        The NRR function is used to review the outstanding tickets and/or excise bills for a registration number.

After a plate type, registration number, and plate color (optional) are entered NRR will display each parking ticket, abandoned vehicle ticket, or excise bill currently marked.

This function displays the current plate color (if it was not entered), manufacturer's vehicle identification number indicating the vehicle marked for non-renewal, vehicle year, manufacturer's description of the vehicle, owner's last name, first name,  middle name, number of items marked against a particular registration, the three digit code and name for each town that marked a ticket or bill for the registration, the type of outstanding obligation marked (abandoned vehicle citation, excise non-payment or unpaid parking tickets), the year of the outstanding obligation, and the numbers or alphabetic characters assigned to the ticket or bill.

The NRR function is invoked by entering NRR in the FUNCTION field.

COMPONENTS:      *Guest input program*
UGN0020P

*Guest output program*
UGN0021P

*Host program (s)*
UHR1063P - URI5 – Registration inquiry by reg number
UHR1067P
UHN0040P – NR40 – Nonrenew indexed ticket inquiry

*Map*
UGN0020M

*LX table*
UGN0020T

*Copy books*
UMSLXMAC
REGEQU
UGZCOMMA
UGN0020C
UHZCOMMA

*External name*
NRR

*Internal name*
NR40

## AVAILABLE FUNCTION KEYS:

F1 - Main menu
F2 - UMS Submenu screen
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Next function with current key
F7 - Page backward
F8 - Page forward
F9 - Not available
F10 - Not available
F11 - Not available
F12 - Not available

# 13     **Lessee Information**

## R1C Function

TITLE:               R1C SCREEN

DESCRIPTION:    The R1C screen is used to inquire on, add, change, or delete lessee information associated with a registration. The required key data fields are plate type and registration number. The plate color is optional and, if not entered, will become the default color for the plate type entered. The screen will display the lessee's license/fid number, name, address, and the lease effective date. The vehicle owner's name and address will also be displayed, along with the vehicle information.

There are 4 actions that can be processed on this screen. They include "I," Inquiry; "A," Add; "C," Change; and "D," Delete.

All the actions require a registration to be entered. If there are duplicate records on the database for the registration entered, a screen of duplicate key choices is displayed, allowing the user to select the desired record.

In addition to the user going directly to the R1C screen, the R1A/R1B process will pass the user to R1C whenever a tax exempt code of "L" is entered. In this situation, the registration information is passed and the only action allowed is "A." Once the lessee information is entered, the user is passed back to the R1B screen.

To process a lessee inquiry, an action code of "I" is entered with the required key data fields.

To process a lessee add, an action code of "A" is entered with the required key data fields. Once the vehicle and owner information is retrieved and displayed, the user is required to enter the primary lessee information. If the lessee is an individual, then the license number must be entered. The license state is only needed when the license number is not from Massachusetts. If the license number is not on the database, the user is allowed to add it by supplying the

lessee's name, date of birth, and mailing address. The residence address is optional. If the license is a duplicate on the database, then a duplicate resolution screen will be displayed. Optionally, the user may enter the lessee's name and date of birth. A screen displaying matching names will be displayed, allowing the user to select the desired record. If the lessee is a corporation, then an FID number must be entered. If the FID is not on the database, the user will receive a "NOT FOUND" error message. If the FID is a duplicate on the database, then a duplicate resolution screen will be displayed. A secondary lessee may also be entered. The secondary lessee can only be an individual. If the license number entered for the secondary lessee is not found, it will be added using the same address information as for the primary lessee. For an individual lessee, the garage code is optional and, if not entered, will default to the lessee's mailing city. For a corporation lessee, the garage code must be entered. Other fields that may be entered are insurance company number and lease effective date. If the lease effective date is not entered, it will default to the current date. The F12 key is used to apply the updates to the database.

To process a lessee change, an action code of "C" is entered with the required key data fields. When the lessee record has no secondary lessee and the primary lessee is a corporation, the user will only be able to add a secondary lessee. When the lessee record has no secondary lessee and the primary lessee is an individual, the user can add an FID number (this will make the individual the secondary lessee) or add a secondary lessee. When the lessee record has a primary and secondary lessee, the user can EOF the primary lessee (making the secondary lessee the primary lessee) or change the secondary lessee. Other fields that may be changed are garage code, insurance company code, lease effective date, and lease end date. When the lease end date is entered, the lease is considered to have ended.

To process a lessee delete, an action code of "D" is entered with the required key data fields. The system will then require the user to press F12 twice to delete the record. This action should only be used to delete a lessee record that was entered in error. The change action should be used to end a lease.

Inquiry actions are allowed for all users. A user must obtain authorization to perform add/change actions and delete actions.

The F6 key can be used for screen hopping. The user will be able to screen hop to screens that have a registration, license, or FID number as their primary key. For example, the user may F6 to RI

using the displayed registration or F6 to LI using the displayed lessee's license number.

The F9 key is used to resolve duplicates from registration, license, and nown scroll screens.

The F12 key will perform database updates.  In the case where R1A/R1B transfers the user to R1C, the F12 key will return the user to R1B, and that program will perform the database updates.

COMPONENTS:    *Guest input program*
UGR2301P

*Guest output program*
UGR2302P

*Host programs*
UHR2303P, UHR2304P

*Map*
UGR2300M

*LxTable*
UGR2300T

*Copy books*
UGZCOMMY (UGR2301P, UGR2302P)
UHZCOMMY (UHR2303P)
UIR230AY (UGR2301P, UGR2302P, UHR2303P)
UIR230BY (UHR2303P, UHR2304P)
UIR219BY (UHR2303P)
UIR219CY (UGR2302P)
UIR219DY (UGR2301P)
UILXCNST (UGR2301P, UGR2302P, UHR2303P)
UHUILOGY (UHR2303P)
UIR1OWNY (UHR2303P)
UIR1510Y (UHR2303P)
UHR1VISY (UHR2303P)
UHRREGSY (UHR2303P)
UHR1ALGY (UHR2304P)
MREYIOWK (UHR2303P, UHR2304P)
MREYEDIT (UHR2303P)
MRMYZIPM (UHR2303P)
MCCYPOST (UHR2304P)
MUMYOREG (UHR2304P)

*External name*
R1C

*Internal name*
R116

AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - UMS Main Menu
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Screen Hopping
F7 - Not available
F8 - Not available
F9 - Resolves duplicates from Registration,
     License and Nown scroll screens
F10 - Not available
F11 - Not available
F12 - Update

# UGR2301P - GUEST INPUT

INPUT:          *Map*
                UGR2300M

PROCESS:        After initialization, the program determines from where and under
                what circumstances it was accessed.

                If accessed for the first time, the message "PLEASE ENTER
                ACTION CODE AND REGISTRATION INFO" is displayed on
                the screen.  The user must respond by entering the requested keys.
                If the program is entered via screen hopping or from the R1A/R1B
                process, the passed registration and its associated owner and
                vehicle are retrieved from the database and displayed on the
                screen.

                If the program is entered as the result of the user pressing the Enter
                key, the program edits the key data fields that have been entered or
                changed.  If the user is adding or changing lessee information, then
                these fields are also edited.

The primary key data fields include the plate type, registration number and plate color. The plate color is optional and, if not entered, will become the default color for the plate type entered.

OUTPUT: If no errors are detected, the output from this program is placed in the guest-to-host block. This block is passed to UHR2303P. If an error is detected, an error message is formatted and displayed back to the user requesting further action.

MESSAGES:

| | |
|---|---|
| 342400001 - | INVALID ACTION CODE, PLEASE ENTER A, C, D, OR I |
| 342300002 - | INVALID INSURANCE CODE |
| 342301001 - | INVALID PROGRAM ENTRY - CALL DP |
| 342301002 - | PLEASE ENTER ACTION CODE AND REGISTRATION INFO |
| 342301003 - | INVALID SURROGATE PASSED ON SCREEN HOP - CALL DP |
| 342301004 - | INVALID SURR FROM DUP RESOLUTION SCREEN - CALL DP |
| 342301005 - | NO SELECTION MADE, CORRECT REG AND PRESS ENTER |
| 342301006 - | NO SELECTION MADE, CORRECT LIC# AND PRESS ENTER |
| 342301007 - | NO SELECTION MADE, CORRECT FID# AND PRESS ENTER |
| 342301008 - | NO SELECTION MADE, PERSON MAY BE ADDED |
| 342301009 - | NO SELECTION MADE, CORRECT NAME AND PRESS ENTER |
| 342301010 - | PRIMARY LESSEE CAN ONLY BE EOFED - SCREEN RESTORED |
| 342301011 - | PRIMARY EOFED, 2ND CANNOT CHANGE - SCREEN RESTORED |

CALLED MODULES: None


## UHR2303P - HOST INPUT

INPUT: Guest-to-host block from UGR2301P
Temporary Storage Queue from R1B

PROCESS: After initialization, the program accesses the database to retrieve the lessee, vehicle, and vehicle owner data. This data is retrieved anytime the required key data fields are changed.

If key lookup was successful, then the lessee information is edited. If there are no errors in the lessee information, a link is made to the owner lookup module (UHR1OWNP) to obtain the corporation and individual name and address information. If individual 1 and/or individual 2 need to be added, then the address fields are unprotected. The garage code and insurance code are then edited unless the program was transferred from R1A/R1B processing.

For an "Add" action, the lease effective date is edited. If no date was entered, it is set to the current date. Otherwise, it is checked to make sure it is not greater than the current date.

For a "Change" action, the effective date is edited to make sure it is not greater than the current date. If the lease end date was entered, it is edited to make sure it is not less than the lease effective date. If the registration is active, the lease end date cannot be greater than the current date. If the registration is not active, the lease end date cannot be greater than the reg status date.

For a "Delete" action, no edits are performed.

If there are no errors and the F12 key has not been pressed, a message is sent to the user that all edits passed and to press F12 for update. If F12 was pressed, a link to the host output module (UHR2304P) is made.

OUTPUT:          The updated information is moved to the host-to-guest block and control is passed to the Guest Output module (UGR2302P).

MESSAGES:     342303001 -   YOU ARE CURRENTLY NOT AUTHORIZED TO DO THIS ACTION

342303002 -   INVALID ACTION CODE, PLEASE ENTER A, C, D, OR I

342303003 -   ERROR READING R1B TS QUEUE - CALL DP

342303004 -   PLEASE ENTER FID AND/OR LICENSE NUMBER(S)

342303005 -   RUN UNIT NOT BOUND - CALL DP

342303006 -   LR-ERROR DURING RETRIEVAL OF REG INFO - CALL DP

342303007 -   REGISTRATION RECORD DOES NOT EXIST

342303008 -   MMVR-VEHC NOT FOUND - CALL DP

342303009 -   MMVR-VMOD NOT FOUND - CALL DP

342303010 -   MMVR-NOWN NOT FOUND - CALL DP

342303011 -   MMVR-PERS NOT FOUND - CALL DP

342303012 -   MMVR-ADDR NOT FOUND - CALL DP

342303014 -   LESSEE RECORD FOUND - ADD ACTION NOT
              ALLOWED
342303015 -   NO LESSEE RECORD - CHANGE ACTION NOT
              ALLOWED
342303016 -   LINK ERROR VISCICS, CONTACT DP
342303017 -   MMVR-BUSS NOT FOUND - CALL DP
342303018 -   MMVR-COMV NOT FOUND - CALL DP
342303019 -   MMVR-TRLR NOT FOUND - CALL DP
342303020 -   MMVR-UNOP NOT FOUND - CALL DP
342303021 -   ENTER LESSEE CHANGES
342303022 -   NO LESSEE RECORD - DELETE ACTION NOT
              ALLOWED
342303023 -   PRESS F12 TO DELETE LESSEE RECORD
342303024 -   BAD LINK TO MRESPLT1 - CALL DP
342303025 -   PLATE TYPE/REG#/COLOR HIGHLIGHTED IS
              INVALID
342303026 -   VERIFY LESSEE RECORD DELETE - PRESS
              F12 AGAIN
342303027 -   LINK ERROR UHRSREGS CONTACT DP
342303028 -   REGISTRATION NOT ACTIVE - LESSEE TXN
              NOT ALLOWED
342303029 -   ONLY 2 LESSEES ARE ALLOWED
342303030 -   LESSEE 1 REQUIRED IF LESSEE 2 ENTERED
342303031 -   LICENSE 1 MUST NOT EQUAL LICENSE 2
342303032 -   COMPLETE LESSEE 1 INFORMATION
342303033 -   COMPLETE LESSEE 2 INFORMATION
342303034 -   ENTER FID DUPLICATE RESOLUTION KEY
342303035 -   LINK ERROR UHR1OWNP - CALL DP
342303036 -   AT LEAST ONE LESSEE REQUIRED
342303037 -   FID KEY NOT FOUND, CHANGE AND RETRY
342303038 -   LIC #1 KEY NOT FOUND, PROCEED WITH
              LESSEE ADD
342303040 -   LIC #2 KEY NOT FOUND, PROCEED WITH
              LESSEE ADD
342303042 -   DATE OF BIRTH IS GREATER THAN
              CURRENT DATE
342303043 -   DOB IS REQUIRED FOR OUT OF STATE
              LICENSE
342303044 -   INVALID LICENSE STATE FIELD
342303045 -   INVALID LICENSE NUMBER
342303046 -   GARAGE CODE MUST BE ENTERED
342303047 -   LINK ERROR UHR1E510 - CALL DP
342303048 -   INSURANCE STAMP NOT NEEDED
342303049 -   NEEDS INSURANCE STAMP, PLEASE CHECK
              DOCUMENT
342303050 -   BAD PARM - INSURANCE LOOKUP,

UHR1E510 - CALL DP

342303051 -   LESSEE NAME NOT FOUND - PLEASE
              CORRECT NAME
342303052 -   LEASE EFFECTIVE DATE GREATER THAN
              CURRENT DATE
342303053 -   LEASE END DATE GREATER THAN
              CURRENT DATE
342303054 -   LEASE END DATE GREATER THAN REG
              STATUS DATE
342303055 -   LINK ERROR UHR2304P - CALL DP
342303056 -   NO ERRORS FOUND - PRESS F12 TO
              UPDATE
342303057 -   UNKNOWN ERROR OCCURRED - CALL DP
342303058 -   VERIFY INS CODE. CHANGE IF NECESSARY.
              ENTER "Y"
342303059 -   UNEXPECTED FLAG RETURNED FROM
              UHR1OWNP - CALL DP
342303060 -   DATE OF BIRTH NOT REQUIRED
342303061 -   LICENSE STATE NOT REQUIRED
342303062 -   NAME MUST BE ENTERED WHEN ADDING
              LESSEE
342303063 -   MAILING ADDRESS MUST BE ENTERED
              WHEN ADDING LESSEE
342303064 -   LESSEE END DATE IS LESS THAN LESSEE
              EFF DATE
342303065 -   SECTION V REG NOT ALLOWED. USE RI
              SCREEN.
342303066 -   OWNER NOT TAX EXEMPT
342303067 -   LESSEE CHANGE REQUESTED, BUT
              NOTHING WAS CHANGED
342303068 -   REG HAS NO VEHICLE - LESSEE ADD NOT
              ALLOWED
342303069 -   PLEASE ENTER LESSEE FID AND/OR
              LICENSE NUMBER(S) *
342303070 -   ENTER LESSEE CHANGES *
342303071 -   PRESS F12 TO DELETE LESSEE RECORD *
342303072 -   INSURANCE COMPANY MUST BE ENTERED
342303074 -   LESSEE RECORD FOUND - ADD ACTION NOT
              ALLOWED *
342303075 -   NO LESSEE RECORD - CHANGE ACTION NOT
              ALLOWED *
342303076 -   NO LESSEE RECORD - DELETE ACTION NOT
              ALLOWED *
342303077 -   REGISTRATION NOT ACTIVE - LESSEE TXN
              NOT ALLOWED *
342303078 -   OWNER NOT TAX EXEMPT *

342303079 -   ERROR ON IDMS FINISH - CALL DP

CALLED MODULES:      UHR2304P      (Host Output module)
                     MRESPLT1      (Plate Editor module)
                     UHR1E510      (Insurance Lookup module)
                     VISCICS       (Insurance Rating Lookup module)
                     VISTHEFT      (Common Stolen Vehicle Lookup module)
                     VISRAP        (Preventive Restraint Lookup module)
                     UHRSREGS      (Registration Status Module)
                     UHR1OWNP      (Owner Lookup Module)
                     UICALLST      (For logging data base errors and
                                    checking clerk security)

DATA BASE RECORDS:   *Obtained*
                     MMVR-ADDR
                     MMVR-BUSS
                     MMVR-COMV
                     MMVR-CSDY
                     MMVR-CSDY-HIST
                     MMVR-NOWN
                     MMVR-PERS
                     MMVR-TRLR
                     MMVR-UNOP
                     MMVR-VEHC
                     MMVR-VEHR
                     MMVR-VEHR-REG-X
                     MMVR-VMOD

                     *Stored*
                     None

                     *Modified*
                     None

                     *Erased*
                     None

## UHR2304P - HOST OUTPUT

INPUT:          Host block from UHR2303P

PROCESS:        After initialization, fields passed from the host input program are
                checked to see how R1C was entered.

When entry comes from the R1A/R1B process, only new person lessee 1 and/or person lessee 2 records will be created. The other required lessee records will be built by the R1B host output module (UHR2198P).

For individuals from Massachusetts, the person (MMVR-PERS) and person name index (MMVR-PERS-R) records are created. If a second mailing address line and/or residence address is entered, an address (MMVR-ADDR) record is created. The address for the second individual is the same as the primary lessee's address. If the individual is from out of state, the MMVR-UNOP record is also created.

When the R1C screen is entered directly, a check is made to see if any individual lessee records need to be created.

For an "Add" action, the custody (MMVR-CSDY) record is created and an "L" is moved to the VEHR-CODE-TYPE-REG field on the registration record (MMVR-VEHR) to indicate that the vehicle attached to this registration has been leased.

For a "Change" action where no lessee was changed or where no lease end date was entered, the custody record is modified. If a lease end date was entered, it is moved to the custody record and then the custody record is stored as a custody history (MMVR-CSDY-HIST) record. The custody record is deleted and low-values are moved to the VEHR-CODE-TYPE-REG field on the registration record to show the vehicle is no longer leased. If a lessee has been changed, the current date is moved to the lease end date on the custody record and stored as a custody history record. Then a new custody record is stored with the updated lessee information.

For a "Delete" action, the custody (MMVR-CSDY) record is deleted and low-values are moved to the VEHR-CODE-TYPE-REG field on the registration record to indicate that the vehicle is no longer leased.

If the insurance company code was changed or the registration status is active and the secondary status is cancelled "INSC" or pending insurance "PINS," the UMS registration activity module (MUMSOREG) is called to update the UMS and Suspension areas.

If the garage code is changed, the town number field on the registration record (MMVR-VEHR) is modified.

For all actions, audit (MMVR-AUDT) and alog (MMVR-ALOG) records are built, and the ALOG/AUDT module (UIR1AAAP) is called to store them on the database. Once this is done, the cash posting module (MCCP999M) is called to create bref (MMVR-BREF) and cash (MMVR-CASH) records.

OUTPUT:  If any errors are detected when the database is being updated, a rollback is performed. A status indicator and message are placed in the host block and passed back to the Host Input program (UHR2303P).

MESSAGES:
342304001 - BIND RUN-UNIT FAILED IN UHR2304P
342304002 - COMMIT DB UPDATES FAILED IN UHR2304P
342304003 - FINISH RUN-UNIT FAILED IN UHR2304P
342304004 - ROLLBACK DB UPDATES FAILED IN UHR2304P
342304005 - OBTAIN MMVR-VEHR FAILED IN UHR2304P
342304006 - OBTAIN MMVR-CSDY FAILED IN UHR2304P
342304007 - OBTAIN-CSDY-RECS PATH FAILED IN UHR2304P
342304008 - MODIFY-CSDY-RECS PATH FAILED IN UHR2304P
342304009 - OBTAIN MMVR-SURR-PERS FAILED IN UHR2304P
342304010 - OBTAIN MMVR-DSUR-PERS FAILED IN UHR2304P
342304011 - STORE-PERS-RECS PATH FAILED IN UHR2304P
342304012 - BATCH NUMBER MODULE MSUS999M PGMIDERR
342304013 - BATCH NUMBER MODULE MSUS999M BAD LINK
342304014 - BATCH NUMBER MODULE MSUS999M BAD BIND RUN-UNIT
342304015 - BATCH NUMBER MODULE MSUS999M BAD BIND MMVR-BTCH
342304016 - BATCH NUMBER MODULE MSUS999M BAD OBTAIN MMVR-BTCH
342304017 - BATCH NUMBER MODULE MSUS999M BAD MODIFY MMVR-BTCH
342304018 - BATCH NUMBER MODULE MSUS999M BAD STORE MMVR-BTCH
342304019 - BATCH NUMBER MODULE MSUS999M BAD DECADE INDICATOR
342304020 - BATCH NUMBER MODULE MSUS999M BAD MAXIMUM BATCH NUMBER

342304021 - BATCH NUMBER MODULE MSUS999M BAD
RETURN CODE

342304022 - BATCH NUMBER MODULE MSUS999M BAD
FINISH RUN-UNIT

342304023 - BATCH NUMBER MODULE MSUS999M BAD
ROLLBACK UPDATES

342304024 - MUMSOREG MODULE PGMIDERR IN
UHR2304P

342304025 - MUMSOREG MODULE BAD LINK IN
UHR2304P

342304026 - MUMSOREG MODULE BAD RETURN CODE
04 IN UHR2304P

342304027 - MUMSOREG MODULE BAD RETURN CODE
08 IN UHR2304P

342304028 - MUMSOREG MODULE BAD RETURN CODE
12 IN UHR2304P

342304029 - MUMSOREG MODULE BAD RETURN CODE
16 IN UHR2304P

342304030 - MUMSOREG MODULE BAD RETURN CODE
20 IN UHR2304P

342304031 - MUMSOREG MODULE BAD RETURN CODE
24 IN UHR2304P

342304032 - MUMSOREG MODULE BAD RETURN CODE
28 IN UHR2304P

342304033 - MUMSOREG MODULE BAD RETURN CODE
31 IN UHR2304P

342304034 - MUMSOREG MODULE BAD RETURN CODE
32 IN UHR2304P

342304035 - MUMSOREG MODULE BAD RETURN CODE
33 IN UHR2304P

342304036 - MUMSOREG MODULE BAD RETURN CODE
34 IN UHR2304P

342304037 - MUMSOREG MODULE BAD RETURN CODE
35 IN UHR2304P

342304038 - MUMSOREG MODULE BAD RETURN CODE
36 IN UHR2304P

342304039 - MUMSOREG MODULE BAD RETURN CODE
37 IN UHR2304P

342304040 - MUMSOREG MODULE BAD RETURN CODE
38 IN UHR2304P

342304041 - MUMSOREG MODULE BAD RETURN CODE
39 IN UHR2304P

342304042 - MUMSOREG MODULE BAD RETURN CODE
40 IN UHR2304P

342304043 - MUMSOREG MODULE BAD RETURN CODE
41 IN UHR2304P

342304044 -  MUMSOREG MODULE BAD RETURN CODE
42 IN UHR2304P
342304045 -  MUMSOREG MODULE BAD RETURN CODE
43 IN UHR2304P
342304046 -  MUMSOREG MODULE BAD RETURN CODE
44 IN UHR2304P
342304047 -  MUMSOREG MODULE BAD RETURN CODE
45 IN UHR2304P
342304048 -  MUMSOREG MODULE BAD RETURN CODE
46 IN UHR2304P
342304049 -  MUMSOREG MODULE BAD RETURN CODE
UNKNOWN IN UHR2304P
342304050 -  UIR1AAAP MODULE PGMIDERR IN
UHR2304P
342304051 -  UIR1AAAP MODULE BAD LINK IN UHR2304P
342304052 -  UIR1AAAP MODULE BAD RETURN IN
UHR2304P
342304053 -  MCCP999M MODULE PGMIDERR IN
UHR2304P
342304054 -  MCCP999M MODULE BAD LINK IN UHR2304P
342304055 -  MCCP999M MODULE BAD RETURN IN
UHR2304P
342304056 -  UHZ0029P MODULE BAD LINK IN UHR2304P

CALLED MODULES:      UIR1AAAP    (ALOG/AUDT Processing module)
MCCP999M   (Cash Posting module)
MSUS999M    (Batch Number Processing module)
MUMSOREG (UMS Reg Activity Update module)

DATA BASE RECORDS:  *Obtained*
MMVR-CSDY
MMVR-DSUR-PERS
MMVR-SURR-PERS
MMVR-VEHR

*Stored*
MMVR-ADDR
MMVR-CSDY
MMVR-CSDY-HIST
MMVR-PERS
MMVR-PERS-R
MMVR-UNOP

*Modified*
MMVR-CSDY
MMVR-SURR-PERS

MMVR-VEHR

*Erased*
MMVR-CSDY
MMVR-DSUR-PERS

# UGR2302P - GUEST OUTPUT

INPUT:             Guest-to-Host block from UHR2303P

PROCESS:      After initialization, a check is made to see if duplicate processing is required.  If a duplicate registration is entered, control is passed to the Registration Scroll by Registration screen (URSR).  If a duplicate license number is entered, control is passed to the License Number Scroll screen (LN).  If a duplicate out of state license number is entered, control is passed to the Out of State License Number Scroll screen (LNO).  If a duplicate FID number is entered, control is passed to the Corporation Scroll by FID screen (RNF).  If only the name was entered, control is passed to the UMS Person Name Scroll screen (ULP).  At this point, the user will place the cursor on the desired entry and press F9.  The selected information will be carried back to the R1C screen.

The registration, vehicle, title, and primary lessee surrogates are moved to the commarea so that they may be used for screen hopping.

If the transaction is complete and R1C was originally entered from the R1A/R1B process, control is passed back to R1B.  If the program was entered directly, the appropriate success message is sent and the screen attributes are reset to allow a new transaction.

OUTPUT:       The lessee, vehicle, and vehicle owner information is displayed on the screen.

MESSAGES:   342302001 -  NO ERROR PRESENT, PRESS F12 TO UPDATE
342302002 -  LESSEE INFORMATION SUCCESSFULLY ADDED
342302003 -  LESSEE INFORMATION SUCCESSFULLY CHANGED
342302004 -  LESSEE INFORMATION SUCCESSFULLY DELETED
342302005 -  INQUIRY OF LESSEE INFORMATION

COMPLETE
342302006 -   NO LESSEE FOUND FOR THIS
REGISTRATION
342302007 -   DUPLICATE FOUND, UNABLE TO RESOLVE
342302008 -   INQUIRY OF LESSEE INFORMATION
COMPLETE *
342302009 -   NO LESSEE FOUND FOR THIS
REGISTRATION *


CALLED MODULES:      None

# 14     UMS Registration Bank Scroll

## RBS Function

TITLE:            REGISTRATION BANK SCROLL

DESCRIPTION:     The RBS function is used to review a list of lienholder information by lienholder code or name, with the lienholder type as an optional secondary key.  Code and name cannot both be entered, and the code must be greater than zero and less than 32768.

COMPONENTS:     *Guest input program*
UGR2201P

*Guest output program*
UGR2202P

*Host program*
UHR2203P

*Map*
UGR2200M

*Copy books*
UILXCNST     (ALL)
UGZCOMMY (UGR2201P, UGR2202P)
UHZCOMMY (UHR1203P)
UGR220AY     (UGR2201P, UGR2202P)
UGR220BY     (UGR2201P)
UIR220CY      (UGR2202P, UHR1203P)
UHUILOGY    (UHR1203P)

*External name*
URBS

*Internal name*
BS02

AVAILABLE FUNCTION KEYS:

F1  -   End session
F2  -   UMS Main Menu
F3  -   Not available
F4  -   Not available
F5  -   Not available
F6  -   Not available
F7  -   Page forward
F8  -   Page backward
F9  -   Select from scroll screen
F10 -   Not available
F11 -   Not available
F12 -   Not available

# UGR2201P - GUEST INPUT

INPUT:              *Map*
                    UGR2200M

                    *Data*
                    Lienholder type        (Optional)
                    Lienholder code        (Required if name not entered)
                    Lienholder name        (Required if code not entered)

PROCESS:            Upon entry, the program determines the circumstances under
                    which it is accessed.  If the user presses the enter key, all of the
                    key data fields are checked.  If any data keys are changed, all keys
                    are edited.  If an error is found, the corresponding error number is
                    moved to the common area.

                    If you press the F7 key, the first entry from the previous page in
                    the page table moves to the common area.  If you change any of
                    the  keys on the screen and press F7, the key change is ignored.  If
                    the first page of data is being displayed and you press the F7 key,
                    an error number moves to the common area.

                    If the F8 key is pressed, the bottom entry of the current page in the
                    page table moves to the common area.  If any of the keys on the
                    screen are changed along with F8, the key change is ignored.  If
                    there is no more data to display, an error number moves to the
                    common area.

If the program is entered because the user pressed the F11 key on another screen to rescroll back to URBS, the key data from the common area is moved to the guest input's general storage area.

If the program is entered for the first time, then the common area is initialized.  When the URBS screen displays for the first time, a message displays for you to enter data for the search.

If URBS is accessed because another program transfers control for lienholder lookup, the program moves the current values to the common area for database lookup within the host.

OUTPUT:           If no errors are detected during processing, the system transfers control to the host retrieval program (UHR1203P).  Otherwise, control is transferred to the cleanup processor, which transfers control to the LX table to display the error message.

MESSAGES:

| | |
|---|---|
| 323001001 | Enter keys |
| 323001002 | Entry not valid |
| 323001003 | Enter error |
| 323001004 | End of set |
| 323001005 | Top of set |
| 323001006 | Invalid type |
| 323001007 | Can't have both |
| 323001008 | Must have one |
| 323001009 | Leading spaces |
| 323001010 | Embedded spaces |
| 323001011 | Alphanumeric only |
| 323001012 | Code too large |
| 323001013 | Code not numeric |
| 323001014 | Invalid state |
| 323001015 | Invalid zip |
| 323001016 | Second key invalid |

CALLED MODULES:     None


## UHR2203P - HOST RETRIEVAL

INPUT:           Either the information keyed on the screen or information sent from another module is passed to this program.

PROCESS:        The key data (type, code, and name) is moved to the host common area work area and the host-to-guest block is initialized.  The key data is edited.  If the type was entered, it is moved to the work

record to indicate that the lookup should include only records with that type.

The key fields are moved to the appropriate fields in the logical record work record and either a name or code lookup is done. After the database lookup has retrieved the data needed, the lienholder information is moved to the host-to-guest block.

The lienholder information needed for a forward scroll (F8) is moved to those fields in the host-to-guest block and the database calc read flag is set for the next time into the program.

The length of the block is calculated and moved to the host-to-guest block and control is transferred to the code protocol processor.

OUTPUT:        The program moves lienholder data and the page table to the common area.  Control transfers to the guest output program (UGR2202P).

MESSAGES:

| | |
|---|---|
| 323001025 | LR error |
| 323001026 | DML error |
| 323001027 | No record for key |
| 323001028 | Invalid key |
| 323001029 | Can't have both |
| 323001030 | Must have one |
| 323001031 | Leading space |
| 323001032 | Embedded spaces |
| 323001033 | Alphanumeric only |

CALLED MODULES:    None

DATA BASE RECORDS:    *Obtained*
MMVR-LIEN

*Stored*
None

*Modified*
None

*Erased*
None

## UGR2202P - GUEST OUTPUT

INPUT:              Lienholder information retrieved by the host retrieval program, or any error messages generated by the host retrieval program.

PROCESS:            After initializing the detail portion of the screen, processing continues if no error code has been sent from the host retrieval module.  The program formats the F4/F9 table with the lienholder calc keys.  The page table is loaded according to whether the user pressed F7 or F8, if there are details to display.

OUTPUT:             The lienholder information is formatted on the screen.  An informational message is also displayed to inform the user of more data available to display, or that all the data has been displayed.

MESSAGES:           323001020 -   F8 for more records
                    323001021 -   End of set encountered--no more records
                    323001022 -   Change function, cursor to lienholder, and F4/F9

CALLED MODULES:       None

# 15 UMS Registration History

## RH Function

TITLE:              REGISTRATION HISTORY

DESCRIPTION:      The RH function is used to display a registration's owner and vehicle information.  Both the current vehicle and any previous vehicles that were attached to the registration are displayed.  The key fields (fields to be entered) are plate type, registration number, and color.  All three fields are required.  If color is not entered, a default color is assumed based on the other two fields.

Note: A typical use of this screen would be to find all vehicles that were attached to a specific registration.

Multiple pages may be displayed on this screen by using the standard F7 and F8 for page forward and back.

This screen can be "hopped" from to a UMS screen (eg. RI) or an ALAR screen (eg. TH).  To transfer to another screen and carry either the registration or vehicle information, the user can cursor down, select the desired detail line and press F4.

After transferring to a non-scroll screen the rescroll option is available to return to RH by changing the function back to RH and pressing the F11 key.

COMPONENTS:    *Guest input program*
UGR1251P

*Guest output program*
UGR1252P

*Host program*
UHR1253P

*Map*
UGR1250M

*Copy books*

| | |
|---|---|
| UILXCNST | (UGR1251P,UGR1252P) |
| UGZCOMMY | (UGR1251P,UGR1252P) |
| UHZCOMMY | (UHR1253P) |
| UGR125AY | (UGR1251P, UGR1252P) |
| UGR125BY | (UGR1251P) |
| UIR125CY | (UGR1252P, UHR1253P) |
| UHUILOGY | (UHR1253P) |
| UHRREGSY | (UHR1253P) |
| MREYIOWK | (UHR1253P) |

*External name*
RH

*Internal name*
RH01

## AVAILABLE FUNCTION KEYS:

F1  -   End session
F2  -   UMS Menu
F3  -   Not available
F4  -   Cursor select from scroll screen
F5  -   Not available
F6  -   Not available
F7  -   Page forward
F8  -   Page backward
F9  -   Not available
F10 -   Not available
F11 -   Rescroll
F12 -   Not available

## UGR1231P - GUEST INPUT

INPUT:

*Map*
UGR1250M

*Data*
Plate Type              (Required)
Registration Number  (Required)
Color                     (Required)

PROCESS:         Upon entry, the program determines the circumstances under
which it is accessed.  If the user presses the enter key, all of the

key data fields are checked to determine if a key has changed. Any of the following errors may be detected during editing:

> INVALID PLATE TYPE
> PLATE NOT VALID FOR PLATE TYPE
> PLATE-COLOR NOT VALID FOR PLATE
> PLEASE ENTER PLATE TYPE, REG, AND COLOR

If an error is found, the corresponding error number is moved to the common area.

If the program is entered for the first time, the common area and the page table are initialized. When the RH screen is displayed for the first time, the page number is set to zero and a message is displayed for the user to enter the key fields.

If the user presses the F7 key, the first entry from the previous page in the page table is moved to the common area. If the user changes any of the keys on the screen and presses F7, the key change is ignored. If the first page of data is being displayed and the F7 key is pressed, an error number is moved to the common area.

If the F8 key is pressed, the bottom entry of the current page in the page table is moved to the common area. If any of the keys on the screen are changed along with F8, the key change is ignored. If there is no more data to display, an error number is moved to the common area.

If the program is entered because the user pressed the F11 key on another screen to rescroll back to RH, the key data from the common area is used to redisplay the same information on the screen that was displayed previously on RH.

If the program is entered because the user pressed F4 or F6, the registration or vehicle surrogates will be used to obtain the registration history information.

OUTPUT:     If no errors are detected during processing, the system transfers control to the host retrieval program (UHR1253P). Otherwise, control transfers to the cleanup processor module to display the error message.

MESSAGES:   326001001 -  Enter keys
            326001002 -  No surrogate F4
            326001003 -  F7 not valid

326001004 -   No more records
326001005 -   Entry not valid

CALLED MODULES:      None


# UHR1253P - HOST RETRIEVAL

INPUT:              Guest-to-host block from the guest input program (UGR1251P).

PROCESS:            Retrieval of data can occur several ways, depending on how the guest input program was entered.  If the entry key was enter, the first MMVR-VEHR record is retrieved using the plate type, registration number, and color.

                    If the entry was through a function key transfer, either the VEHC or VEHR surrogate is used to obtain the MMVR-VEHC or MMVR-VEHR record.  From these records, key information is obtained to use for retrieval of the first MMVR-VEHR record.

                    For each MMVR-VEHR record retrieved, the MMVR-VEHR-HIST, MMVR-VEHC, and MMVR-PERS or MMVR-NOWN records are retrieved.

                    If the entry key is F7 or F8, the dbkey will be used to obtain the next MMVR-VEHR record.

                    After it has been determined that the owner, current vehicle, and history information can be displayed on a page, the MMVR-VMOD information is obtained for each vehicle.

                    The database key for each owner line is moved to the page table in the common area for paging purposes.

                    The same process is repeated until a complete owner line with vehicle history details cannot fit on the page or all owners with registrations matching the key criteria have been found.

OUTPUT:             The registration and history information is moved to the host-to-guest block when no errors exist.  Otherwise, an error code is moved to the common area.  Control is transferred to the Guest Output program (UGR1252P).

MESSAGES:           326003000     No key data

|            |                                      |
|------------|--------------------------------------|
| 326003001  | No VEHR on VEHC                      |
| 326003002  | LR error                             |
| 326003003  | No registration found                |
| 326003004  | Owner missing                        |
| 326003005  | DBKEY error                          |
| 326003006  | Invalid entry key                    |
| 326003009  | Invalid DBKEY                        |
| 326003010  | Bind error                           |
| 326003011  | Bad link registration status         |
| 326003012  | Vehicle not found, get registration  |

CALLED MODULES:    UHZ0020P    -   Message logging module
                   UHRREGSY  -   Registration status module

DATA BASE RECORDS:    *Obtained*
                      MMVR-NOWN
                      MMVR-PERS
                      MMVR-VEHC
                      MMVR-VEHR
                      MMVR-VEHR-HIST
                      MMVR-VMOD

                      *Stored*
                      None

                      *Modified*
                      None

                      *Erased*
                      None


## UGR1252P - GUEST OUTPUT


INPUT:          Owner and registration history information retrieved by the host
                retrieval program, or any error messages generated by the host
                retrieval program.

PROCESS:        After initializing the detail portion of the screen, the screen is
                formatted with information from the host to guest block.  The
                program formats the F4/F9 scroll table with the VEHR, VEHC,
                and VEHT surrogate keys.  The page table containing the
                registration database keys is also loaded based on the function key
                pressed by the user and if there are details to display.

OUTPUT:          The registration owner and vehicle information is formatted on the screen.  An informational message is also displayed to inform the user of more data available to display, or if all the data has been displayed.

MESSAGES:      326002001 -   F8 for more records
                  326002002 -   End of set encountered - no more records

CALLED MODULES:      UICALLST - Date conversion routine

# 16     **Registration/ Title Inquiry**

## URI Function

TITLE:                     REGISTRATION/TITLE INQUIRY

DESCRIPTION:      The URI function is used to inquire on registration and title information.  The inquiry is done by entering one or more of the following keys:

♦ Plate type and registration
♦ Vehicle identification number (VIN)
♦ Title number
♦ License number

At least one of these keys must be entered.  The inquiry searches for an exact match on the information entered.  If an exact match is not found, an error message displays back to the user indicating no data was found.  If a duplicate is encountered for a registration number, processing is transferred to the Reg Scroll by Registration screen (URSR) to resolve the duplicate.  If a duplicate is encountered for a VIN, the processing is transferred to the Reg Scroll by VIN screen (URSV).  If a duplicate is encountered for a license, processing is transferred to the License Number Scroll screen (LN).

To resolve a duplicate from one of the duplicate resolution screens, the user can move the cursor down to select the desired line by pressing either the F4 or F9 key.  There is no difference between the F4 and F9 key except the user needs to change the function code to URI before pressing the F4 key.

NOTE:  A typical use of the URI function would be to find the registration, title and vehicle information associated with a given key.

COMPONENTS:    *Guest input program*
UGR5061P

*Guest output program*
UGR5062P

*Host program(s)*
UHR5063P
UHR5064P
UHR5065P
UHR5066P
UHR5067P

*Map*
UGR5060M

*LX table*
UGR5060T

*Copy books*
UGZCOMMY (ALL)
UIR5060Y　　(UGR5061P, UGR5062P, UHR5063P, UHR5064P,
　　　　　　　UHR5065P, UHR5066P, UHR5067P)
MREYBRAN (UHR5067P)
MREYRCOD (UHR5067P)
MREYMYSY (UHR5063P)
MREYMYWY(UHR5063P)
UIR5067Y　　(UHR5067P)
UHUILOGY　(UHR5063P, UHR5064P, UHR5065P, UHR5066P,
　　　　　　　UHR5067P)
UHRREGSY　(UHR5067P)
UHRTTLSY　(UHR5067P)
UGRIBLKY　(UGR5061P)
MREYIOWR　(UHR5063P)

*External name*
URI

*Internal name*
URIK, URIL, URIM, URIN

AVAILABLE FUNCTION KEYS:

F1  - End session
F2  - UMS Menu
F3  - Not available
F4  - Select from scroll screen
F5  - Not available
F6  - Transfer key information to selected

screen
F7  - Not available
F8  - Not available
F9  - Select from scroll screen
F10 - Not available
F11 - Not available
F12 - Not available

NOTE: F4 requires a function change

## UGR5061P - GUEST INPUT

INPUT:

*Map*
UGR5060M

*Data*
Plate type, registration, and color
VIN
Title number
License number 1
License number 2

NOTE: At least one of the five fields listed above is required.

PROCESS:

After initialization, the program determines from where and under what circumstances it was accessed.

When ENTER is pressed, the program checks for any keys that are changed.  If the plate type and registration number are changed or entered, they are moved to the guest-to-host block of the common area, and control passes to the host registration retrieval program (UHR5063P).

If the VIN is entered or changed, its value is moved to the guest-to-host-block of the common area and control passes to the host VIN retrieval program (UHR5064P).

If the first or second license number is entered or changed, its value moves to the guest-to-host block of the common area, and control passes to the host license program (UHR5065P).

If the title is entered or changed, its value moves to the guest-to-host block of the common area and control passes to the host title retrieval program (UHR5066P).

If no keys are changed, an error number moves to the common area and control passes to the guest output program (UGR5062P) to display the message.

This program also controls processing when you press the F4 or F9 key from one of the duplicate resolution screens, and control passes to URI. There is no difference between the F4 and F9 key, except that the user needs to change the function code to URI before pressing the F4 key. The program determines which type of surrogate is received, and which host program is going to process the request.

OUTPUT:         If the system detects an error, it moves an error number to the common area and passes control to the guest output program (UGR5062P). Otherwise, it moves the key values to the common area and passes control to one of the four host programs listed above.

MESSAGES:      311001021 - No surrogate for F4
311001022 - Entry not valid
311001002 - Enter keys
311001001 - Last 6 characters numeric
311001038 - Invalid VIN

CALLED MODULES:        None

## UHR5063P - HOST REGISTRATION RETRIEVAL

INPUT:          Common area from the guest input program (UGR5061P)

PROCESS:        The program determines if the vehicle registration surrogate (VEHR-NUMB-SURR) is present. If so, the program passes control to the host output program (UHR5067P). Otherwise, the vehicle registration record (MMVR-VEHR) is obtained using the vehicle registration key. If the vehicle registration is found on the database, the program calls the UICALLST module to determine if this is a confidential registration. A NOT FOUND error number moves to the common area if the registration is confidential.

If no errors are found, the next vehicle registration record is obtained to determine if duplicates exist. If the next record is found, the system calls the UICALLST module again to determine

if this is a confidential registration.  If it is confidential, the registration is not considered a duplicate.

OUTPUT:

If a duplicate registration is found, the clerk's office type is checked to determine if they may resolve duplicates.   Dealer (type 4) and IRP (type 5) office types are prevented from access to duplicate processing scroll screens.   If access is allowed, control passes to the Reg Scroll by Registration screen (URSR) for duplicate resolution.  Once the duplicate is resolved, the vehicle registration surrogate moves to the common area and control passes back to the guest input program (UGR5061P).

If no duplicate registration exists, the vehicle registration surrogate moves to the common area and control passes to UHR5067P.

If the vehicle registration number is not found, or any other errors occur, the program places the error code in the common area and control passes to the guest output program (UGR5062P).

MESSAGES:

311001007 - Entry not found
311001008 - Database error
311001009 - IDMS-Error
311001018 - Duplicate information
311001039 - No duplicate listing
311001040 - Clerk not found
311001041 - CLRK IDMS error
311001042 - CLRK-IO-Error
311001043 - Office type not found
311001044 - Office type IDMS-Error
311001045 - Office type IOError
315063001 - UHRSREGS link error
315063005 - Bind match VEHR
315063010 - Vehr match not found
315063015 - Match VEHR IO error
315063020 - Bind RSLT error
315063030 - RSLT IO error

CALLED MODULES:

UICALLST (for logging database errors and confidential reg verification)

## UHR5064P - HOST VIN RETRIEVAL

INPUT:    Common area from the guest input program (UGR5061P)

PROCESS:   The program determines if a vehicle surrogate (VEHC-NUMB-SURR) is present. If so, control passes to the host output program (UHR5067P). Otherwise, the vehicle record (MMVR-VEHC) is obtained using the VIN key. If the record is found, the program moves the vehicle surrogate to the common area, and the next vehicle record is obtained. If the next record is found, a duplicate exists, and a switch is set in the common area.

OUTPUT:   If a duplicate VIN is found, the clerk's office type is checked to determine if they may resolve duplicates. Dealer (type 4) and IRP (type 5) office types are prevented from access to duplicate processing scroll screens. If access is allowed, control passes to the Reg Scroll by VIN (URSV) for duplicate resolution. Once the duplicate is resolved, the vehicle surrogate moves to the common area and control passes to the guest input program (UGR5061P).

       If no duplicate VIN exists, the vehicle surrogate moves to the common area and control passes to UHR5067P.

       If the VIN is not found or any other errors occur, the system places the error code in the common area and control passes to the guest output program (UGR5062P).

MESSAGES:   311001010 - A record matching entered key was not found
       311001011 - Database error
       311001012 - IDMS error
       311001039 - No duplicate list
       311001040 - Clerk not found
       311001041 - CLRK IDMS error
       311001042 - CLRK IO error
       311001043 - Office type not found
       311001044 - Office type IDMS error
       311001045 - Office type IO error
       315063035 - BIND MTCH VEHC
       315063040 - MTCH VEHC not found
       315063045 - MTCH VEHC Io error
       315063050 - BIND RSLT error
       315063055 - RSLT not found
       315063060 - RSLT IO error

CALLED MODULES:  UICALLST (For logging database errors)

## UHR5065P - HOST LICENSE RETRIEVAL

INPUT:              Common area from the guest input program (UGR5061P)

PROCESS:        The program determines if the person surrogate (PERS-NUMB-SURR) is present.  If so, the program passes control to the host output program (UHR5067P).  Otherwise, the person stub record (MMVR-PERS-R) is obtained using the license number.  If the record is found, the person surrogate moves to the common area.  A FIND DUPLICATE command is issued to find duplicates on the database.  If a duplicate exists, a switch is set in the common area.

OUTPUT:         If a duplicate license is found, the clerk's office type is checked to determine if they may resolve duplicates.   Dealer (type 4) and IRP (type 5) office types are prevented from access to duplicate processing scroll screens.   If access is allowed, the program passes control to the License Number Scroll screen (LN) for duplicate resolution.  Once the duplicate is resolved, the person surrogate moves to the common area and control passes to the guest input program (UGR5061P).

                        If no duplicate license exists, the person surrogate is moved to the common area and control passes to UHR5067P.

                        If the license is not found, or any other errors occur, the program places the error code in the common area, and passes control to the guest output program (UGR5062P).

MESSAGES:      311001013 - Entry not found
311001014 - I/O error
311001015 - IDMS error
311001039 - No duplicate list
311001040 - Clerk not found
311001041 - CLRK IDMS error
311001042 - CLRK I/O error
311001043 - Office type not found
311001044 - Office type IDMS error
311001045 - Office type I/O error
315063065 - BIND PERS
315063070 - PERS not found
315063075 - PERS I/O error
315063080 - BIND MTCH VEHR
315063085 - MTCH VEHR not found
315063090 - MTCH VEHR I/O error

315063095 - BIND RSLT error
315063100 - RSLT not found
315063105 - RSLT I/O error

CALLED MODULES:     UICALLST (for logging data base errors)

# UHR5066P - HOST TITLE RETRIEVAL

INPUT:     Common area from the guest input program (UGR5061P)

PROCESS:     The program determines if the title surrogate is present. If so, control passes to the host output program (UHR5067P). Otherwise, the title record (MMVR-VEHT) is obtained using the title key, and the title surrogate (VEHT-NUMB-SURR) moves to the common area.

OUTPUT:     The program places the title surrogate in the common area to pass to the host output program (UHR5067P) for further processing. If a title record is not found, or any other errors occur, the program places an error code in the common area for the guest output program (UGR5062P) to display the message.

MESSAGES:     311001001 - Duplicate title
311001004 - Entry not found
311001005 - I/O error
311001006 - IDMS error
315063110 - BIND MTCH VEHC
315063115 - MTCH VEHC not found
315063120 - MTCH VEHC I/O error
315063125 - BIND RSLT error
315063130 - RSLT not found
315063135 - RSLT I/O error

CALLED MODULES:     UICALLST (for logging database errors)

# UHR5067P - HOST OUTPUT

INPUT:     A common area from one of the following programs:

- Host Registration Retrieval     (UHR5063P)
- Host Vin Retrieval     (UHR5064P)
- Host License Retrieval     (UHR5065P)

◆  Host Title Retrieval　　　　　　　(UHR5066P)
◆  Guest Input program　　　　　　　(UGR5061P)

PROCESS:　　　　The program determines which surrogate key  (registration, vehicle, title, or license) to use when accessing the database.

If the registration surrogate is present, the registration record (MMVR-VEHR) and its owner record(s), either Person owners (MMVR-PERS) or Non-Individual owners (MMVR-NOWN), are obtained.  If a vehicle is present for this registration, the vehicle record (MMVR-VEHC) is obtained.  If a title is present for the vehicle, the title record (MMVR-VEHT) is obtained.  If the vehicle is leased, the custodian record (MMVR-CSDY) is obtained.

If the vehicle surrogate is present, the same information is obtained from the database, except the vehicle information is obtained first.

If the title surrogate is present, the same information is obtained, except the title information is obtained first.

If the license surrogate is present, the same information is obtained, except the person information is obtained first.

A link is performed to the Registration Status module to verify that the clerk has the authority to view the registration status.  The registration status module also returns the primary and secondary registration statuses, and the registration effective and expiration dates.

Another link is performed to the title status module to obtain the title status, followed by a call to UICALLST to verify the clerk has security to view confidential registrations.  A NOT FOUND error number moves to the common area if the clerk does not have appropriate security.

OUTPUT:　　　　The registration, title, vehicle, and person information moves to the host-to-guest block of the common area if no errors occur. Otherwise, the program places an error number in the common area.  Control passes to the guest output program (UGR5062P) to display the information, or the error message.

MESSAGE:　　　　311001004 - Bad program call
311001016 - LR  error
311001017 - DML error
311001013 - Record keys not found
311001046 - Inactive revocation

CALLED MODULES:      UICALLST (for checking security)

LINKED MODULES:      Registration Status
Title Status

# UGR5062P - GUEST OUTPUT

INPUT:      Registration, title, vehicle, and person information retrieved by the host programs, or any error messages generated by the guest input program (UGR5061P) or host output program (UHR5067P).

PROCESS:      After initialization, the program moves the information received from the host programs into the common area and formats the screen to display back to the user.

OUTPUT:      The program returns registration, title, vehicle, and person information, or an error message to the screen.

MESSAGE:      311001003 - Inquiry process complete
311001037 - Error when confirming registration
311001018 - Duplicate registration
311001019 - Duplicate confirm registration

CALLED MODULES:      None

# 17    UMS Corporation Scroll by FID

## RNF Function

TITLE:              CORPORATION SCROLL BY FID

DESCRIPTION:        The RNF function is used to request and display a list of
                    corporations by Federal ID (FID).  The key fields (fields to be
                    entered) are FID and Zip Code.  The FID field is the only required
                    field.  The Zip Code field is optional, but may be used to narrow
                    the search.

                    NOTE:  A typical use of this screen would be to find the
                    corporation if the FID is known.

                    Multiple pages may be displayed on this screen by using the
                    standard F7 and F8 for page forward and back.

                    This screen can be "hopped" to from a UMS screen (eg. R1A) or
                    an ALAR screen (eg. OP1, RNM or RP) when a duplicate FID is
                    encountered.  To transfer control back with the FID information,
                    the user can cursor down, select the desired FID and press F9.

COMPONENTS:         *Guest input program*
                    UGR1231P

                    *Guest output program*
                    UGR1232P

                    *Host program*
                    UHR1233P

                    *Map*
                    UGR1230M

                    *Copy books*
                    UILXCNST          (UGR1231P)
                    UGZCOMMY          (UGR1231P, UGR1232P)
                    UHZCOMMY          (UHR1233P)
                    UGR123AY          (UGR1231P, UGR1232P)

UGR123BY   (UGR1231P)
UIR123CY   (UGR1232P, UHR1233P)
UHUILOGY   (UHR1233P)

*External name*
RNF

*Internal name*
UR09

## AVAILABLE FUNCTION KEYS:

  F1 - End session
  F2 - UMS menu
  F3 - Not available
  F4 - Not available
  F5 - Not available
  F6 - Not available
  F7 - Page forward
  F8 - Page backward
  F9 - Select from scroll screen
  F10 - Not available
  F11 - Rescroll
  F12 - Not available

## UGR1231P - GUEST INPUT

INPUT:   *Map*
     UGR1230M

     *Data*
     FID   (Required)
     Zip Code  (Optional)

PROCESS:  Upon entry, the program determines the circumstances under
     which it is accessed.  If the user presses the enter key, all of the
     key data fields are checked.  If any data keys are changed, all the
     keys are edited.  Any of the following errors may be detected
     during editing:

      ◆ ENTRY NOT VALID
      ◆ PLEASE ENTER KEYS
      ◆ FID MISSING - PLEASE ENTER

If an error is found, the corresponding error number is moved to the common area.

If the F7 key is pressed, the first entry from the previous page in the page table is moved to the common area. If the user changes any of the keys on the screen and presses F7, the key change is ignored. If the first page of data is being displayed and you press the F7 key, an error number is moved to the common area.

If the F8 key is pressed, the bottom entry of the current page in the page table is moved to the common area. If any key field changes are entered and the F8 key is pressed, the key changes are ignored. If there is no more data to display, an error number is moved to the common area.

If the program is entered because the user pressed the F11 key on another screen to rescroll back to RNF, the key data from the common area is used to obtain the corporation information.

If the program is entered for the first time, then the common area and the page table are initialized. When the RNF screen is displayed for the first time, the page number is set to zero and a message is displayed for the user to enter data for the search.

If RNF is accessed because a duplicate FID has been encountered on another screen, the values for the scroll table are initialized and the current values are moved to the commarea area.

OUTPUT:   If no errors are detected during processing, the system transfers control to the host retrieval program (UHR1233P). Otherwise, control transfers to the guest output program (UGR1232P) to display the error message.

MESSAGES:   322001001 -   Invalid entry
322001002 -   Please enter keys
322001003 -   Enter key valid with key changes only
322001004 -   FID missing - please enter
322001005 -   Zip Code not numeric
322001006 -   Beginning of set encountered
322001007 -   End of set encountered
322001008 -   Zip Code one required when Zip two entered
322001009 -   FID code must be nine numeric characters

CALLED MODULES:   None

## UHR1233P - HOST RETRIEVAL

INPUT:             Guest-to-host block from the guest input program (UGR1231P).

PROCESS:        If the enter key was pressed by the user, the NOWN-FID-R RECORD is obtained using the FID field entered by the user. If F7 or F8 was pressed, the DB key on the page table is used to obtain the NOWN-FID-R record. Then the NOWN-NUMB-SURR on the MMVR-NOWN-FID-R record is used to obtain the NOWN record (MMVR-NOWN). If the MMVR-NOWN record is not found, an error code is formatted. If the MMVR-NOWN is found and the zip code equals that specified by the user, the corporation information is moved from the MMVR-NOWN record to the host-to-guest block.

                          The DB key for each detail line is moved to the page table in the common area for paging purposes.

                          The same process is repeated until the detail line count is greater than eight or no more MMVR-NOWN records meeting the specified criteria can be found.

OUTPUT:         The corporation information (up to eight corporations) is moved to the host-to-guest block when no errors exist. Otherwise, an error code is moved to the common area. Control is transferred to the Guest Output program (UGR1232P).

MESSAGES:       322001041 -   Program logic error. Bad access indicator
                          322001042 -   No match found for keys selected
                          322001043 -   NOWN record not found for surrogate
                          322001044 -   DB key not found
                          322001045 -   LR error
                          322001046 -   DML error
                          322001047 -   Database error
                          322001048 -   NOWN record not found for surrogate
                          322001049 -   LR logic error
                          322001051 -   Bad first time indicator

CALLED MODULES:      None

DATA BASE RECORDS:   *Obtained*
                          MMVR-NOWN-FID-R
                          MMVR-NOWN

                          *Stored*
                          None

*Modified*
None

*Erased*
None

## UGR1232P - GUEST OUTPUT

INPUT:          Corporation information retrieved by the host retrieval program, or any error messages generated by the guest input or the host retrieval program.

PROCESS:        After initializing the detail portion of the screen, processing continues to format the screen from information in the common area if no error code has been sent from the guest input or host retrieval modules.  The program formats the F4/F9 table with the NOWN surrogate keys.  The page table containing the DB keys is also loaded based on the function key pressed by the user and if there are details to display.

OUTPUT:         The corporation information is formatted on the screen.  An informational message is also displayed to inform the user of more data available to display, or if all the data has been displayed.

MESSAGES:       322001070 -   No more records
                322001071 -   F8 for more records

CALLED MODULES:       None

# 18     NADA Information Inquiry

## RVN Function

TITLE:          National Automobile Dealers Association (NADA) Inquiry

DESCRIPTION:     The URVN function is used to display NADA information related to a vehicle identification number (VIN). The user must enter the VIN to use this screen. However, the model year and the make fields are required if the model year of the vehicle is prior to 1981.

The URVN screen allows the user to inquire on the NADA Valu-Guide, giving the vehicle's weight, MSRP, loan value, retail value, trade-in value, series, submake, and style.

This screen can be "hopped" to from several different screens:
♦ URI/UVH using F6
♦ UPA using F3
♦ URSR/URSV/URSN with an F4 cursor select

When the user has been transferred to the URVN screen by pressing the F4 or F9 key on a scroll screen (e.g. URSR screen), the user may return to the scroll screen in order to make a new selection. This is done by changing the function code to the appropriate scroll screen's function and pressing the F11 key.

When the user has been transferred to the URVN screen by pressing the F3 key on a cursor select screen (e.g. UPA screen), the user may return to the cursor select screen in order to make a new selection by simply pressing the F11 key.

When a tape of a new UMS release is sent to insurance companies, they have 60 days to make changes to the guest software and maps to make the applications more suitable to their individual business needs. For this reason, it is necessary to maintain two versions of the software. During these 60 days, the old version of URVN may be accessed by entering the function code "TRVN," while the function code "URVN" will execute the recently modified modules. After the 60-day period, TRVN will no longer be available.

NOTE:  A typical use of the URVN screen would be to find NADA information related to a VIN.

COMPONENTS:  *Guest input program*
UGR2141P

*Guest output program*
UGR2142P

*Host program*
UHR2143P

*LR*
UHR1143L

*Map*
UGR2140M

*Lx Table*
UGR2140T

*Copy books*
UGZCOMMY   (UGR1141P,UGR1142P)
UHZCOMMY   (UHR1143P)
UGR214AY     (UGR1141P,UGR1142P)
UGR214BY     (UGR1141P)
UIR214CY      (UGR1142P,UHR1143P)
UGZ1RFLY     (UGR1142P)
UHUILOGY    (UHR1143P)

*External name*
URVN

*Internal names*
UR10

AVAILABLE FUNCTION KEYS:

F1  - End session
F2  - UMS Menu
F3  - Limited secondary session (requires
        function change)
F4  - Select from scroll screen (requires
        function change)
F5  - Not available

F6  - Screen hopping (requires function
    change)
F7  - Not Available
F8  - Not Available
F9  - Not available
F10 - Not available
F11 - Return to primary session
F12 - Not available

## UGR2141P - GUEST INPUT

INPUT:          *Map*
UGR2140M

*Data*
VIN
Vehicle Make (not required after 1981)
Model Year (not required after 1981)
Odometer

PROCESS:      If the VIN, odometer, make, or model year have been entered or changed, they are edited and moved to a part of the common area, called the guest-to-host block, that is sent to the Host Retrieval program (UHR2143P).

If this program is entered because the F4 key was pressed on a scroll screen, or the F3 key was pressed on a cursor select screen, or the F6 key was pressed from another screen, then either the registration or vehicle surrogate from the common area is moved to the guest-to-host block.

OUTPUT:      If no errors are detected, the output from this program is placed in the guest-to-host block and passed to the Host Retrieval program (UHR2143P).  If an error is detected, an error message is moved to the common area and control is transferred to the Guest Output program (UGR2142P).

ERROR MESSAGES:
    314001001 - VIN Required
    314001002 - Year not numeric
    314001003 - Make required
    314001004 - Year required
    314001005 - Entry not valid
    314001006 - Enter keys

314001007 - Bad surrogate value
314001008 - Bad surrogate value
314001009 - Odom required

CALLED MODULES:        None

# UHR2143P - HOST RETRIEVAL

INPUT:              Guest-to-host block from UGR2141P

PROCESS:            The program first determines whether or not a VIN was entered by examining the entry-reason field, which is passed from the guest input program.  If the program is entered through the use of screen hopping (i.e. F6), cursor select (i.e. F3), or secondary session (i.e. F4), then either the VEHR surrogate or the VEHC surrogate is passed, and the VIN is obtained using VEHC surrogate and/or VEHR surrogate.

After the VIN is obtained, the odometer is checked for a non-zero number.  If true, then a link is performed to the NADA interface module (MRESNADA) to obtain the vehicle's weight, MSRP, retail value, loan value, trade-in value, series, submake, and body style from the NADA system.

Finally, the Host Retrieval program formats the host-to-guest block and converts the system return code received from the NADA system to a meaningful error message.

OUTPUT:             The NADA information is moved to the host-to-guest block when no errors exist.  Otherwise, an error code is moved to the common area.  Control is passed to the Guest Output program (UGR2142P).

ERROR MESSAGES:
314001020 - VIN not found
314001021 - DB error
314001022 - Temporary storage not found
314001023 - Temporary storage write error
314001024 - NADA - program not found
314001025 - Link problem
314001026 - Temporary storage delete error
314001027 - Temporary storage item error
314001028 - LR error
314001029 - Temporary storage read error
314001055 - Bad system RC

314001056 - Vehr record not found
314001057 - Vehc record not found

CALLED MODULES:         UICALLST (For logging errors)

LINKED MODULES:         MRESNADA  - NADA interface module

DATA BASE RECORDS OBTAINED:     MMVR-VEHR
                                MMVR-VEHC

DATA BASE RECORDS STORED:       None

DATA BASE RECORDS MODIFIED:     None

DATA BASE RECORDS ERASED:       None


## UGR2142P - GUEST OUTPUT

INPUT:          Host-to-guest block from UHR2143P containing the NADA
                information for the VIN or any error messages generated by the
                Guest Input or the Host Retrieval programs.

PROCESS:        The information in the host-to-guest block is moved to the
                common area and displayed on the screen.  The registration and
                vehicle surrogates are moved to the common area so that they may
                be used for screen hopping.

OUTPUT:         If no errors occurred, the NADA information is displayed on the
                screen with a message indicating that the inquiry process is
                complete.  Otherwise, an error message is displayed.

ERROR MESSAGES:
                314001015 - NADA INQUIRY PROCESS COMPLETE

CALLED MODULES:     None

LINKED MODULES:     None

# 19     MRB At-Fault Claim Inquiry

## UMA Function

TITLE:            MERIT RATING BOARD - AT FAULT INSURANCE CLAIM

DESCRIPTION:     The UMA function displays detail information about an at-fault insurance claim and allows the addition of new claims or the update of existing ones.

COMPONENTS:     *Guest input program*
UGM0030P

*Guest output program*
UGM0031P

*Host program(s)*
UHM0001P
UHM0030P

*Map*
UGM0030M

*LX Table*
UGM0030T

*Copy books*
UHMCTOWN
UHMCLAIM
UMSLXZT
UGZCOMMC
UGM0030C
UHZCOMMC
UHZCOMMY
MMRYNTRT

*External name*
UMA

*Internal name*

MRB0        (Person lookup via license, state or name and date
of birth for NOLICENSE/XX)

UMA1        (Retrieve/update at-fault claim information)

AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - Main menu
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Screen hop using person surrogate
F7 - Not available
F8 - Obtain next subordinate claim
F9 - Not available
F10 - Not available
F11 - Not available
F12 - Add new or update existing claim

NOTE:  F6 requires a function change

## UGM0030P - INPUT SCREEN HANDLER

INPUT:          *Map*
UGM0030M

*Data*
License (required)
License state (required)
Incident date (required)
Loss type (required)

PROCESS:      After initialization, the program determines from where and under
what circumstances it was accessed.

If access is from a first time call, the screen is initialized and
displayed with a request for the user to enter license, state, incident
date, and loss type.

If accessed via the ENTER key (after the first display), the
program takes action based on the status of the license, license
state, incident date, and loss type fields.  If none of these fields has

changed, the program opens up fields to be edited and exits to the screen display.  If only the incident date and/or loss type have changed, the program calls the UMA1 host program to retrieve the requested incident and pass through to the output screen handler.  If the license number or license state has changed, then the MRB0 host program is called to retrieve person information and pass through to the output screen handler.  If no existing claim is found, fields are opened up to allow the entry of a new claim.

If accessed via F4 or F6, the surrogate key points directly to an MMVR-AUTI record.  This surrogate key is passed directly to the UMA1 host program for a pass through to the output screen handler.

If accessed via F8, the program attempts to retrieve the next SUBM record associated with the current AUTI.  If none exists, it will open the fields to add a new SUBM.

If accessed via F12 and no errors have been found, the information on the screen is used to update an existing or add a new at-fault claim to the database.

OUTPUT:              If no errors are detected, the appropriate host information is placed in the host common area.  If an error is detected, the error message number is displayed.

MESSAGES:       200001303 -   Invalid date
                          600000001 -   No person record found for license entered
                          610000002 -   Invalid key press or function call
                          610000018 -   Enter last name and date of birth
                          620000019 -   Insurance company number invalid or required
                          620000027 -   Policy number invalid or required
                          620000024 -   Town code invalid or required
                          630000002 -   Enter license num, st, incident date, loss type
                          630000005 -   Pay date must be after incident date
                          630000008 -   Policy date must be prior to incident date
                          630000010 -   Invalid premium town
                          630000017 -   Both reverse source and reason must be entered
                          630000018 -   Claim type is required for add transaction
                          630000019 -   Pay date is required
                          630000020 -   Loss amount below limit, must be greater
                          630000021 -   Surcharge code entered is invalid - please correct
                          630000022 -   Claim number invalid or required
                          630000023 -   Rev reason must be 01, 02, 03, 04, 05, 06, 10, SC,
                                              BA, ML
                          630000025 -   Incident date is required

630000026 - Reversed claim may not be modified
630000028 - Reversal source must be numeric
640000002 - Reversal reason must be 01,03,04,05,10 OR ML
640000003 - Rev source invalid for rev reason ML or BA

CALLED MODULES:    None


# UGM0031P - OUTPUT SCREEN HANDLER

INPUT:          Person and at-fault claim information retrieved by the host
                functions and any error message returned by a host program.

PROCESS:        Phase zero processing retrieves the person surrogate number from
                the MRB0 host function, and passes it, along with the incident date
                and loss type from the input screen, to the UMA1 host function.

                Phase one processing formats the screen with the at-fault claim
                information, and displays it back to the user.

                Phase two processing validates policyholder information using the
                MRB0 host function.

                Phase three processing positions the cursor based on the error
                message, or displays the proper message if no errors were
                encountered.

                Phase four processing updates the database.

OUTPUT:         *Map*
                UGM0030P

MESSAGES:       105000003 - Invalid numeric input
                200001007 - Inquiry process complete
                600000002 - No person record found for surrogate number
                600000004 - No record found for dbkey
                600000005 - To return to UMO, change function and press F6
                600000008 - Security exception - change function
                610000002 - Invalid key press or function call
                610000015 - Unexpected database error
                610000017 - No person record found for license entered
                610000019 - No AUTI record found for surrogate number
                610000020 - No RAIN record found for surrogate number
                620000019 - Insurance company number invalid or required
                620000024 - Town code invalid or required

630000003 -    F4 selection record type invalid
630000004 -    Requested claim not on file
630000006 -    Enter changes to claim or F8 for next claim
630000007 -    No errors - enter F12 to update
630000009 -    VIN not on file
630000010 -    Invalid premium town
630000015 -    Claim has been added
630000016 -    Claim has been modified
630000024 -    Matching claim already present on database
630000026 -    Reversed claim may not be modified
630000027 -    Max changes on claim exceeded
630000029 -    Reversal source not a valid Insurance Co. Code

CALLED MODULES:        None

# 20 MRB Comprehensive Claim Inquiry

## UMC Function

TITLE:              MERIT RATING BOARD - COMPREHENSIVE INSURANCE
                    CLAIM

DESCRIPTION:        The UMC function displays detail information about a
                    comprehensive insurance claim and allows the addition of new
                    comprehensive claims or the update of existing ones.

COMPONENTS:         *Guest input program*
                    UGM0040P

                    *Guest output program*
                    UGM0041P

                    *Host program(s)*
                    UHM0001P
                    UHM0040P

                    *Map*
                    UGM0040M

                    *LX Table*
                    UGM0040T

                    *Copy books*
                    UHMCTOWN
                    UHMCLAIM
                    UMSLXZT
                    UGZCOMMC
                    UGM0040C
                    UHZCOMMC
                    UHZCOMMY

                    *External name*
                    UMC

*Internal name*

MRB0   (Person lookup via license, state or name and date
       of birth for NOLICENSE/XX)

UMC1   (Retrieve comprehensive claim information)

AVAILABLE FUNCTION KEYS:

   F1 - End session
   F2 - Main menu
   F3 - Not available
   F4 - Not available
   F5 - Not available
   F6 - Screen hop using person surrogate
   F7 - Not available
   F8 - Obtain next subordinate claim
   F9 - Not available
   F10 - Not available
   F11 - Not available
   F12 - Add new or update existing comprehensive claim

   NOTE:  F6 requires a function change

## UGM0040P - INPUT SCREEN HANDLER

INPUT:     *Map*
       UGM0040M

       *Data*
       License (required)
       License state (required)
       Incident date (required)
       Loss type (required)

PROCESS:   After initialization, the program determines from where and under
       what circumstances it was accessed.

       If access is from a first time call, the screen is initialized and
       displayed with a request for the user to enter license, state, incident
       date, and loss type.

       If accessed via the ENTER key (after the first display), the
       program takes action based on the status of the license, license
       state, incident date, and loss type fields.  If none of these fields has

changed, the program simply exits to the screen display.  If only the incident date and/or loss type have changed, the program calls the UMC1 host program to retrieve the requested incident and pass through to the output screen handler.  If the license number or license state has changed, the MRB0 host program is called to retrieve person information and pass through to the output screen handler.

If accessed via F4 or F6, the surrogate key points directly to an MMVR-AUTI record.  This surrogate key is passed directly to the UMC1 host program for a pass through to the output screen handler.

If accessed via F8, the program attempts to retrieve the next SUBM record associated with the current AUTI.  If none exists, it will open the fields to add a new SUBM.

If accessed via F12 and no errors have been found, the information on the screen is used to update an existing or add a new comprehensive claim to the database.

OUTPUT:         If no errors are detected, the appropriate host information is placed in the host common area.  If an error is detected, the error message number is displayed.

MESSAGES:

| | | |
|---|---|---|
| 200001303 - | Invalid date | |
| 600000001 - | No person record found for license entered | |
| 610000002 - | Invalid key press or function call | |
| 610000018 - | Enter last name and date of birth | |
| 620000019 - | Insurance company number invalid or required | |
| 620000024 - | Town code invalid or required | |
| 620000027 - | Policy number invalid or required | |
| 630000002 - | Enter license num, st, incident date, loss type | |
| 630000005 - | Pay date must be after incident date | |
| 630000008 - | Policy date must be prior to incident date | |
| 630000010 - | Invalid premium town | |
| 630000017 - | Both reverse source and reason must be entered | |
| 630000018 - | Claim type is required for add transaction | |
| 630000019 - | Pay date is required | |
| 630000020 - | Loss amount below limit, must be greater | |
| 630000021 - | Surcharge code entered is invalid - please correct | |
| 630000022 - | Claim number invalid or required | |
| 630000025 - | Incident date is required | |
| 630000026 - | Reversed claim may not be modified | |
| 640000003 - | Rev source invalid for rev reason ML or BA | |

CALLED MODULES:     None

# UGM0041P - OUTPUT SCREEN HANDLER

INPUT:          Person and comprehensive claim information retrieved by the host functions and any error message returned by a host program.

PROCESS:        Phase zero processing retrieves the person surrogate number from the MRB0 host function, and passes it, along with the incident date and loss type from the input screen, to the UMC1 host function.

Phase one processing formats the screen with the comprehensive claim information, and displays it back to the user.

Phase two processing positions the cursor based on the error message, or displays the proper message if no errors were encountered.

Phase three processing updates the database.

OUTPUT:         *Map*
                UGM0040P

MESSAGES:       105000003 -   Invalid numeric input
                200001007 -   Inquiry process complete
                600000002 -   No person record found for surrogate number
                600000004 -   No record found for dbkey
                600000005 -   To return to UMO, change function and press F6
                600000008 -   Security exception - change function
                610000002 -   Invalid key press or function call
                610000015 -   Unexpected database error
                610000017 -   No person record found for license entered
                610000019 -   No AUTI record found for surrogate number
                610000020 -   No RAIN record found for surrogate number
                610000022 -   No RCIN record found for surrogate number
                620000019 -   Insurance company number invalid or required
                620000024 -   Town code invalid or required
                630000003 -   F4 selection record type invalid
                630000004 -   Requested claim not on file
                630000006 -   Enter changes to claim or F8 for next claim
                630000007 -   No errors - enter F12 to update
                630000009 -   Vin not on file
                630000010 -   Invalid premium town
                630000015 -   Claim has been added

630000016 - Claim has been modified
630000024 - Matching claim already present on database
630000026 - Reversed claim may not be modified
630000027 - Max changes on claim exceeded
630000029 - Reversal source not a valid Insurance Co. Code

CALLED MODULES:     None

# 21      **MRB Operator Inquiry**

## UMI9 Function

TITLE:                  MERIT RATING BOARD - OPERATOR INQUIRY

DESCRIPTION:     The UMI9 function requests Safe Driver Insurance Plan (SDIP) statement information on one to ten operators per operator inquiry.

COMPONENTS:    *Guest programs*
UGM0020P
UGM0021P
UGM0029P

*Host programs*
UHM0001P
UHM0022P

*Maps*
UGM0020M
UGM0021M

*LX Table*
UGM0020T
UGM0021T

*Copy books*
MMRYCTWN
MMRYSDIP
MMRYSDP2
MMRY455D
MMRY455P
UGM0020C
UGM0021C
UGZCOMMC
UHMMINQT
UHZCOMMC
UIR1COMR
UMSLXZT

*External name*
UMI9  (Accept Operator Inquiry Requests)

*Internal name*
MRB0 (Person lookup via MMRV-PERS surrogate
          number)
UMIQ (Inquiry display)
UMI3  (Operator incident retrieval)

AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - Main menu
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Not available
F7 - Page backward
F8 - Page forward
F9 - Resolve duplicate drivers license (MRBS)
F10 - Not available
F11 - Not available
F12 - Not available

## UGM0020P - INQUIRY REQUEST HANDLER

INPUT:

*Map*
UGM0020M

*Data*
License number (required)
License state (required)
Last name (required)
Date of birth (required)
Yrs of drv'g exp
Incidents ind

PROCESS:     After initialization, the program determines from where and under
             what circumstances it was accessed.

             If access is from a first time call, the screen is initialized and
             displayed with a request for the user to enter one or more
             operator's license number/state, last name, date of birth, and,
             optionally, years of driving experience and whether or not there

have been any traffic citations and/or accidents within six years prior to receiving a Massachusetts license.

If accessed via the ENTER key (after the first display) and the license number(s) have changed or access is from a first inquiry request, the operator information entered into the first occurance of operator data is passed to MRB0 for data retrieval of person information.

If accessed via F4, a surrogate key points directly to either an MMVR-PERS record or an MMVR-PINQ record. If it's a PERS surrogate, the data is passed to MRB0 as if a single operator had been entered on the initial screen. If it's a PINQ surrogate, it is passed directly to the UMIQ function via an internal function call.

If accessed via F9, a duplicate license number situation was just resolved in the MRBS function screen. In this case, a surrogate key points directly to a MMVR-PERS record and this information is passed to the MRB0 host function for data retrieval.

If accessed via an internal function call, the phase number is checked to determine whether an empty operator list is to be displayed for a brand new set of inquiries, or whether the original list of operators should be re-presented for modifications to the current set of inquiries.

OUTPUT:  If no errors are detected, the appropriate host information is placed in the host common area. If an error is detected, the error message number is displayed.

MESSAGES:
620000001 -  Please input key fields to process request
620000003 -  Invalid key pressed
620000004 -  Invalid surrogate type for F4 - Call DP
620000005 -  Inquiry has been processed
620000010 -  Effective date invalid or required
620000012 -  Incidents indicator must be "y," "n," or blank
620000013 -  Invalid years driving experience
620000014 -  Operator DOB invalid or required
620000016 -  Effective date before 01/01/1990
620000025 -  Operator number invalid or required
620000026 -  Operator name invalid or required
680000002 -  Print unsucessful invalid print id

CALLED MODULES:  None

## UGM0029P - OUTPUT SCREEN HANDLER

INPUT:        Operator information retrieved by the host function and any error message returned by the host program.

PROCESS:     Passes control directly to the UMIQ function, if all operator information has been correctly entered. Otherwise, formats the screen with operator and error information and displays it back to the user.

OUTPUT:      *Map*
UGM0020M

MESSAGES:

| | |
|---|---|
| 600000001 - | No person record found for license entered |
| 600000002 - | No person record found for surrogate number |
| 600000003 - | Logical record database failure |
| 600000008 - | Security exception - change function |
| 610000002 - | Invalid key press or function call |
| 610000015 - | Unexpected database error |
| 610000016 - | Unexpected return code from host call |
| 620000008 - | Operator name/license mismatch |
| 620000009 - | No operators entered |
| 620000012 - | Incidents indicator invalid |
| 620000013 - | Invalid years driving experience |
| 620000014 - | Operator DOB invalid or required |
| 620000019 - | Insurance company number invalid or required |
| 620000024 - | Town code invalid or required |
| 620000025 - | Operator number invalid or required |
| 620000026 - | Operator name invalid or required |
| 620000030 - | Policy not found. Enter all policy information |
| 670000001 - | No NOWN records found for name or reg entered |

CALLED MODULES:    None

# 22     MRB Operator Summary

## UMO Function

TITLE:                 MERIT RATING BOARD - OPERATOR SUMMARY

DESCRIPTION:      The UMO function displays a scrollable list of summary information about incidents associated with a person or company. Incidents displayed are citations, at-fault accidents, comprehensive claims, and insurance inquiries.

A request type option allows the display to be limited to only one of the above incident types (which will include reversed incidents and violation detail information for citations), a combination of all the above types (which will not include reversed incidents), or a list of only surchargeable incidents.

Additionally, a separate list can be displayed showing all MRB administrative requests which have been processed for the selected person.

COMPONENTS:      *Guest input program*
UGM0010P

*Guest output program*
UGM0011P

*Host program(s)*
UHM0001P
UHM0010P

*Map*
UGM0010M

*LX Table*
UGM0010T

*Copy books*
UHMCTOWN
UMSLXZT

UGZCOMMC
UGM0010C
UHZCOMMC
UHZCOMMY
UHM0060C

*External name*
UMO

*Internal name*
MRB0            (Person lookup via license, state or name and date
                of birth for NOLICENSE/XX)

UMO1            (Retrieve incident/administrative request
                information for person or company)

AVAILABLE FUNCTION KEYS:

    F1 - End session
    F2 - Main menu
    F3 - Not available
    F4 - Select from scroll screen
    F5 - Not available
    F6 - Not available
    F7 - Page backward
    F8 - Page forward
    F9 - Not available
    F10 - Not available
    F11 - Not available
    F12 - Not available

    NOTE:  F4 requires a function change

## UGM0010P - INPUT SCREEN HANDLER

INPUT:            *Map*
                  UGM0010M

                  *Data*
                  License (required)
                  License state (required)
                  Request type (required)
                  Name (required if NOLICENSE/XX)
                  Date of birth

PROCESS:        After initialization, the program determines from where and under what circumstances it was accessed.

If access is from a first time call, the screen is initialized and displayed with a request for the user to enter license, state, and request type.

If accessed via the ENTER key (after the first display), the program takes action based on the status of the license, license state, and request type fields. If none of these fields have changed, the program calls the UMO1 host program to redisplay current page and passes through to the output screen handler. If only the request type has changed, the program calls the UMO1 host program with a start browse request and pass through to the output screen handler. If the license number or license state have changed, then the MRB0 host program is called to retrieve person information and pass through to the output screen handler. However, if the license number/state is changed to NOLICENSE/XX, this program will first go back to the user with a request for name and date of birth.

If accessed via F4 or F6, the surrogate key is checked to determine which host module should be called. If the surrogate type is "4" (person) then the surrogate key is passed to the LI10 host function for data retrieval and pass through to the output screen handler. If the surrogate type is "5" (company) then the surrogate key is passed directly to the UMO1 host function for data retrieval and passes through to the output screen handler.

If accessed via F7, the UMO1 host module is called with a request for page back and pass through to the output screen handler.

If accessed via F8, the UMO1 host module is called with a request for page forward and passes through to the output screen handler.

OUTPUT:         If no errors are detected, the appropriate host information is placed in the host common area. If an error is detected, the error message number is displayed.

MESSAGES:       610000001 -   Invalid request code
                610000002 -   Invalid key press or function call
                610000003 -   Enter license number, state and request type
                610000018 -   Enter last name and date of birth

CALLED MODULES:       None

## UGM0011P - OUTPUT SCREEN HANDLER

INPUT:              Person and incident information retrieved by the host functions and
                    any error message returned by a host program.

PROCESS:            Fills in the scroll table surrogate key information, formats the
                    screen, and displays it back to the user.

OUTPUT:             *Map*
                    UGM0010P

MESSAGES:           600000004 -   No record found for dbkey
                    610000001 -   Invalid request code
                    610000002 -   Invalid key press or function call
                    610000004 -   All records displayed
                    610000005 -   All incidents displayed
                    610000006 -   All surchargeables displayed
                    610000007 -   All administrative requests displayed
                    610000008 -   Press PF8 for more
                    610000009 -   Table size exceeded - not all records displayed
                    610000010 -   No incidents on file
                    610000011 -   No inquiries on file
                    610000012 -   Surchargeables not found
                    610000014 -   All inquiries displayed
                    610000015 -   Unexpected database error
                    610000017 -   No person record found for license entered
                    610000019 -   No AUTI record found for surrogate number
                    610000020 -   No RAIN record found for surrogate number
                    610000021 -   No CITA record found for surrogate number
                    610000022 -   No RCIN record found for surrogate number
                    610000023 -   No POLY record found for surrogate number
                    650000003 -   No NOWN record found for surrogate number

CALLED MODULES:        UICALLST (call date conversion routine)

# 23

# MRB Operator Summary

## UMON Function

TITLE:            MERIT RATING BOARD - OPERATOR SUMMARY

DESCRIPTION:      The UMON function displays a scrollable list of summary
                  information about citation incidents associated with a company.

COMPONENTS:       *Guest input program*
                  UGM0070P

                  *Guest output program*
                  UGM0071P

                  *Host program(s)*
                  UHM0001P
                  UHM0010P

                  *Map*
                  UGM0070M

                  *LX Table*
                  UGM0070T

                  *Copy books*
                  UHMCTOWN
                  UMSLXZT
                  UGZCOMMC
                  UGM0070C
                  UHZCOMMC
                  UHZCOMMY

                  *External name*
                  UMON

                  *Internal name*
                  MRB0          (Company lookup via Company Name and/or
                                vehicle registration.)

UMO1    (Retrieve incident/administrative request
         information for company)

AVAILABLE FUNCTION KEYS:

    F1 - End session
    F2 - Main menu
    F3 - Not available
    F4 - Select from scroll screen
    F5 - Not available
    F6 - Not available
    F7 - Page backward
    F8 - Page forward
    F9 - Not available
    F10 - Not available
    F11 - Not available
    F12 - Not available

    NOTE:  F4 requires a function change

## UGM0010P - INPUT SCREEN HANDLER

INPUT:      *Map*
        UGM0070M

        *Data*
        Company Name (required if Registration blank)
        Registration (required if Company Name blank)

PROCESS:    After initialization, the program determines from where and under
        what circumstances it was accessed.

        If access is from a first time call, the screen is initialized and
        displayed with a request for the user to enter Company Name
        and/or vehicle registration information.

        If accessed via the ENTER key (after the first display), the
        program takes action based on the status of the Company name and
        registration fields.  If none of these fields have changed, the
        program calls the UMO1 host program to redisplay current page
        and passes through to the output screen handler.  If the Company
        name or vehicle registration have changed, the MRB0 host
        program is called to retrieve company information and passes
        through to the output screen handler.

If accessed via F4 or F6 the surrogate key is checked to determine which host module should be called. If the surrogate type is "5" (company) then the surrogate key is passed directly to the UMO1 host function for data retrieval and passes through to the output screen handler.

If accessed via F7, the UMO1 host module is called with a request for page back and passes through to the output screen handler.

If accessed via F8, the UMO1 host module is called with a request for page forward and passes through to the output screen handler.

OUTPUT:        If no errors are detected, the appropriate host information is placed in the host common area. If an error is detected, the error message number is displayed.

MESSAGES:        610000001 -   Invalid request code
670000002 -   Enter Company Name or Massachusetts Registration

CALLED MODULES:      None


## UGM0071P - OUTPUT SCREEN HANDLER

INPUT:        Company and incident information retrieved by the host functions and any error message returned by a host program.

PROCESS:        Fills in the scroll table surrogate key information, formats the screen, and displays it back to the user.

OUTPUT:        *Map*
UGM0070P

MESSAGES:        600000004 -   No record found for dbkey
610000001 -   Invalid request code
610000002 -   Invalid key press or function call
610000004 -   All records displayed
610000005 -   All incidents displayed
610000006 -   All surchargeables displayed
610000007 -   All administrative requests displayed
610000008 -   Press F8 for more
610000009 -   Table size exceeded - not all records displayed
610000010 -   No incidents on file

610000011 -   No inquiries on file
610000012 -   Surchargeables not found
610000014 -   All inquiries displayed
610000015 -   Unexpected database error
610000017 -   No person record found for license entered
610000019 -   No AUTI record found for surrogate number
610000020 -   No RAIN record found for surrogate number
610000021 -   No CITA record found for surrogate number
610000022 -   No RCIN record found for surrogate number
610000023 -   No POLY record found for surrogate number
650000003 -   No NOWN record found for surrogate number
670000001 -   No NOWN records found for name or reg entered


CALLED MODULES:       UICALLST (call date conversion routine)

# 24

# MRB Traffic Citation Inquiry

## UMVH Function

TITLE:          MERIT RATING BOARD - TRAFFIC CITATION

DESCRIPTION:    The UMVH function displays history information about a traffic
                citation.

COMPONENTS:     *Guest input program*
                UGM0052P

                *Guest output program*
                UGM0053P

                *Host program(s)*
                UHM0050P

                *Map*
                UGM0052M

                *LX Table*
                UGM0052T

                *Copy books*
                UHMCTOWN
                UMSLXZT
                UGZCOMMC
                UGM0052C
                UHZCOMMY

                *External name*
                UMVI

                *Internal name*
                UMV1          (Retrieve citation information)

AVAILABLE FUNCTION KEYS:

                F1 - End session

F2 - Main menu
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Screen hop using person/company surrogate
F7 - Not available
F8 - Not available
F9 - Not available
F10 - Not available
F11 - Not available
F12 - Not available

NOTE:  F6 requires a function change


## UGM0052P - INPUT SCREEN HANDLER

INPUT:  
*Map*  
UGM0052M  

*Data*  
Citation number (required)

PROCESS:  
After initialization, the program determines from where and under what circumstances it was accessed.

If access is from a first time call, the screen is initialized and displayed with a request for the user to enter a citation number.

If accessed via the ENTER key (after the first display) and the citation number has changed, the citation number is passed to the UMV1 host program to retrieve the detail information and passes through to the screen output handler.  If the citation number has not changed, this program calls the screen "sendback" module.

If accessed via F4 or F6, the surrogate key points directly to an MMVR-CITA record.  This surrogate key is passed directly to the UMV1 host program for a pass through to the output screen handler.

OUTPUT:  
If no errors are detected, the appropriate host information is placed in the host common area.  If an error is detected, the error message number is displayed.

MESSAGES:  
610000002 -   Invalid key press or function call  
650000001 -   Please enter citation number

CALLED MODULES:        None

## UGM0053P - OUTPUT SCREEN HANDLER

INPUT:              Traffic citation history information retrieved by the host function
                    and any error message returned by the host program.

PROCESS:            Formats the screen with the traffic citation information, and
                    displays it back to the user.

OUTPUT:             *Map*
                    UGM0052M

MESSAGES:           200001007 -   Inquiry process complete
                    600000002 -   No person record found for surrogate number
                    600000005 -   To return to UMO, change function and press F6
                    610000002 -   Invalid key press or function call
                    610000015 -   Unexpected database error
                    630000003 -   F4 selection record type invalid
                    650000002 -   Citation not found
                    650000003 -   No NOWN record found for surrogate number
                    650000004 -   Citation displayed - no additional history
                    650000005 -   Citation displayed - F8 for more history

CALLED MODULES:        None

# 25 MRB Duplicate Citation Inquiry

## UMVS Function

TITLE:              MRB DUPLICATE CITATION SCROLL

DESCRIPTION:    The UMVS function displays any duplicate citations in the system. License number and license state are optional fields that can be used to restrict the display of duplicate citations to specific operators.

The UMVS function can only be invoked by another function for duplicate resolution. The user can then return to the original function by positioning the cursor at the desired citation information and pressing F9. Up to five citations are displayed per page.

COMPONENTS:     *Guest input program*
UGM0055P

*Guest output program*
UGM0056P

*Host program(s)*
UHM0055P

*Map*
UGM0055M

*LX Table*
UGM0055T

*Copy books*
UMSLXZT
UGZCOMMC
UGM0055C
UHZCOMMY

*External name*
UMVS

*Internal name*
UMVX

AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - Main menu
F3 - Not available
F4 - Select from scroll screen
F5 - Not available
F6 - Not available
F7 - Page backward
F8 - Page forward
F9 - Select from scroll and refresh previous screen
F10 - Not available
F11 - Not available
F12 - Not available

NOTE:  F4 requires a function change

## UGM0055P - INPUT REQUEST HANDLER

INPUT:          *Map*
                UGM0055M

                *Data*
                UMVX host data:
                License
                License state

PROCESS:        After initialization, the program determines from where and under
                what circumstances it was accessed.

                First time access directly from a terminal is not allowed.

                If access is from an internal dupkey request, the screen area is
                cleared and a start browse request is sent to the UMVX host
                module for passes through to the output screen handler.

                If accessed via the ENTER key (after the first display), any change
                to license number or license state is passed to the UMVX host
                module for passes through to the output screen handler.

If accessed via F7, the UMVX host module is called with a request for page back and passes through to the output screen handler.

If accessed via F8, the UMVX host module is called with a request for page forward and passes through to the output screen handler.

OUTPUT:            If no errors are detected, the UMVX host information and request type are placed in the host common area. If an error is detected, the error message number is displayed.

MESSAGES:       100000005 - Invalid module call

CALLED MODULES:     None


## UGM0056P - OUTPUT SCREEN HANDLER

INPUT:             Citation, license, and license state information retrieved by the UHM0055P or any error message returned by the host program.

PROCESS:        Fills in the scroll table surrogate key information, formats the screen, and displays it back to the user.

OUTPUT:           *Map*
UGM0055M

MESSAGES:      

| | | |
|---|---|---|
| 600000004 - | No record found for dbkey | |
| 600000006 - | Cursor to selection and F9 - F8 for more | |
| 600000007 - | Cursor to selection and F9 - all recs displayed | |
| 610000002 - | Invalid key press or function call | |

CALLED MODULES:     None

# 26    **MRB Traffic Citation Inquiry**

## UMVI Function

TITLE:               MERIT RATING BOARD - TRAFFIC CITATION

DESCRIPTION:      The UMVI function displays detail information about a traffic citation.

COMPONENTS:      *Guest input program*
UGM0050P

*Guest output program*
UGM0051P

*Host program(s)*
UHM0050P

*Map*
UGM0050M

*LX Table*
UGM0050T

*Copy books*
UHMCTOWN
UMSLXZT
UGZCOMMC
UGM0050C
UHZCOMMY

*External name*
UMVI

*Internal name*
UMV1        (Retrieve citation information)

AVAILABLE FUNCTION KEYS:

F1 - End session

F2 - Main menu
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Screen hop using person/company surrogate
F7 - Not available
F8 - Not available
F9 - Not available
F10 - Not available
F11 - Not available
F12 - Not available

NOTE:  F6 requires a function change

# UGM0050P - INPUT SCREEN HANDLER

INPUT:  
*Map*  
UGM0050M

*Data*  
Citation number (required)

PROCESS:  
After initialization, the program determines from where and under what circumstances it was accessed.

If access is from a first time call, the screen is initialized and displayed with a request for the user to enter a citation number.

If accessed via the ENTER key (after the first display) and the citation number has changed, the citation number is passed to the UMV1 host program to retrieve the detail information and passes through to the screen output handler.  If the citation number has not changed, this program calls the screen "sendback" module.

If accessed via F4 or F6, the surrogate key points directly to an MMVR-CITA record.  This surrogate key is passed directly to the UMV1 host program for a pass through to the output screen handler.

OUTPUT:  
If no errors are detected, the appropriate host information is placed in the host common area.  If an error is detected, the error message number is displayed.

MESSAGES:  
610000002 -   Invalid key press or function call

650000001 -   Please enter citation number

CALLED MODULES:      None

## UGM0051P - OUTPUT SCREEN HANDLER

INPUT:            Traffic citation information retrieved by the host function and any
                  error message returned by the host program.

PROCESS:          Formats the screen with the traffic citation information, and
                  displays it back to the user.

OUTPUT:           *Map*
                  UGM0050M

MESSAGES:         200001007 -   Inquiry process complete
                  600000002 -   No person record found for surrogate number
                  600000005 -   To return to UMO, change function and press F6
                  610000002 -   Invalid key press or function call
                  610000015 -   Unexpected database error
                  630000003 -   F4 selection record type invalid
                  650000002 -   Citation not found
                  650000003 -   No NOWN record found for surrogate number
                  650000004 -   Citation displayed - no additional history
                  650000005 -   Citation displayed - F8 for more history

CALLED MODULES:      None

# 27 **Insurance Submenu (UMS Submenu Screen)**

## UP, UR, UL Function

TITLE:                INSURANCE SUBMENU  (UMS SUBMENU SCREEN)

DESCRIPTION:     The UP function is an insurance function of the Uninsured Motorist System (UMS).  The insurance submenu screen displays seven (7) functions:

| | | |
|---|---|---|
| UPA | – | Policy Amend |
| UPH | – | Policy Holder History Inquiry |
| UPTH | – | Policy Transaction History Inquiry |
| UPIC | – | Policy Information |
| UPOI | – | Policy Operator Inquiry |
| UVH | – | Vehicle History |
| UPMV | – | Multiple Vehicle Amend |

Each of these functions could be invoked by entering an appropriate function code in the Function field.

The UP function is invoked by entering UP in the FUNCTION field.

The UR Registration Submenu of the Uninsured Motorist System (UMS) displays eleven (11) functions:

| | | |
|---|---|---|
| R1A | - | RMV-1 APPLICATION |
| RA | - | REGISTRATION AMEND |
| RI | - | REGISTRATION/TITLE INQUIRY |
| RH | - | REGISTRATION HISTORY |
| RBS | - | BANK/LIENHOLDER SCROLL |
| URSN | - | REGISTRATION SCROLL/NAME |
| URSR | - | REGISTRATION SCROLL/REG |
| URSV | - | REGISTRATION SCROLL/VIN |
| URN | - | CORPORATE-OWNER DATA SCROLL |
| RNF | - | CORPORATE-OWNER FID SCROLL |
| URVN | - | NADA INQUIRY |

Each of these functions can be invoked by entering an appropriate function code in the Function field.

The UR function is invoked by entering UR in the FUNCTION field.

The UL Licensing Submenu of the Uninsured Motorist System (UMS) displays seven (7) functions:

| | | |
|---|---|---|
| LI | - | LICENSE NUMBER INQUIRY |
| LN | - | LICENSE NUMBER SCROLL |
| LNO | - | OUT-OF-STATE NUMBER SCROLL |
| LNS | - | SOCIAL SECURITY NUMBER SCROLL |
| ULP | - | PERSON-NAME SCROLL |
| LH | - | LICENSE HISTORY |
| LTH | - | LICENSE TRANSACTION HISTORY |

Each of these functions can be invoked by entering an appropriate function code in the Function field.

The UR function is invoked by entering UR in the FUNCTION field.

COMPONENTS:     *Guest Side Menu program*
UGZ0010P
        103003001 - Submenu in PCTEG absent from module

*Copy books*
REGEQU
UGZCOMMA
UGZGCTLT

*External name*
UP, UR, UL

*Internal name*
UP, UR, UL

AVAILABLE FUNCTION KEYS:

F1 - Main menu
F2 - UMS Submenu screen
F3 - Not available
F4 - Not available
F5 - Not available
F6 - Not available
F7 - Not available

F8 - Not available
F9 - Not available
F10 - Not available
F11 - Not available
F12 - Not available

# 28

# Policy Amendment

## UPA Function

TITLE:               POLICY AMEND

DESCRIPTION:     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.  The key data fields are insurance company code, policy number, policy effective date, and policy type.  The policy type field will either be "C" (Commercial) or "P" (Private).  The screen will display policy and policyholder information along with all the vehicles, registrations, and owners currently insured on the policy.

To process a policy inquiry, an action code of "I" is entered with the policy key data fields.  If no action code is entered, it will default to "I."

To process a policy cancellation, an action code of "C" is entered with the policy key data fields.  Three types of policy cancellations exist: cancellation prior to the policy becoming active or bound, advance cancellation of an active policy (in which the cancellation effective date is in the future), or immediate cancellation of an active policy (in which the cancellation effective date is the current date or sooner).  If the cancellation is of an advance policy (policy not active or bound), the effective date must equal the policy effective date.  If the cancellation is an advance cancel of an active policy, the effective date must be greater than the current date and within the policy effective dates.  If the cancellation is an immediate cancel of an active/expired policy, the effective date must be less than or equal to the current date and within the policy effective dates.  A reason code must be entered to complete the cancellation.  Unpaid premiums are entered when an amount exists.  The F12 key is used to apply updates to the database.  After the cancellation is complete, the policy status and status date will reflect the cancellation.  If an advanced cancellation was performed, a message stating the policy has been advance-cancelled is displayed on the message line.

To process a policy reinstatement, an action code of "R" is entered with the policy key data fields. The cancellation effective date and reason code, along with any unpaid premiums, are displayed. When reinstating cancelled policies, the reinstatement effective date defaults to the policy's status date (equal to the cancellation effective date). When reinstating advance-cancelled policies, the reinstatement effective date defaults to the cancellation effective date and may not be changed. A reinstatement reason code must be entered to complete the reinstatement. If the reinstatement reason code entered is 'BOA' (reinstatement Board of Appeals), then the user must have CAB authority. The reinstatement source field defaults to the user's ID. Additionally, a reinstatement will erase the full amount of the unpaid premium. The F12 key is used to apply updates to the database. After the reinstatement is complete, the policy status will return to active and the cancellation/reinstatement effective dates and reason codes on the screen are cleared out. Also, for reinstatements of cancelled policies, the policy status date will reflect the reinstatement effective date.

To process a policy bind, an action code of "B" is entered with the policy key data fields. The policy must be in bound status to process a bind action. The policy number must contain a "#" in the first digit and be followed by fifteen (15) numeric characters. If the bound policy is found, a new insurance company policy number must be entered and it must not contain a "#" in the first digit. Policy effective date and expire date may also be changed. The F12 key is used to apply updates to the database.

To process a policy clear unpaid premium, an action code of "U" is entered with the policy key data fields. The policy must be in cancelled status and the unpaid premium amount must be greater than zero to process a clear unpaid premium action. A reason code must be entered to complete the clear unpaid premium action. The F12 key is used to apply updates to the database. After the clear unpaid premium action is complete, the policy unpaid premium amount will reflect a zero balance.

To process a policyholder amend, an action code of "P" is entered with the policy key data fields. The policy must not be in cancelled status to process a policyholder amend action. A license code and license state must be entered to complete the policyholder amend action. If the license state is MA, the license must be on the database. If the license is not MA, a new out-of-state license will only be added if there currently is no policyholder on the policy. If an out-of-state operator is being added, last name, DOB, mail

address, city, state, and zip must be entered. If the policyholder has no valid license, "NOLICENSE" must be entered for the license number and "XX" must be entered for the license state. If a duplicate license number/state is entered, a screen of duplicate key choices is displayed to allow the user to select the desired duplicate. The F12 key is used to apply updates to the database. After the policyholder amend is complete, the policyholder information will reflect the new policyholder data.

Security will only allow insurance companies to update their own policies. Inquiries may be performed on policies for any company.

The F3 key provides access to a limited secondary session. The Registration/Title Inquiry screen (URI) will be used in this secondary session example. After the user has displayed the information for a policy on the UPA screen, which includes the VINS and registrations connected with that policy, he/she changes the function code from UPA to URI, places the cursor on the desired VIN/Registration detail line and presses F3. This will transfer him to the URI screen and display the information for the selected registration. To return to the UPA screen, he/she may press the Clear key or the F1 key. Once he/she has returned to the UPA screen, a message is displayed saying that the primary session has been resumed.

F6 can be used for screen hopping. The user will be able to screen hop to screens that have a policy or license number as their primary key. For example the user may F6 to UPTH using the policy displayed on UPA, or F6 to UPH using the policyholder's license displayed on UPA.

When a tape of a new UMS release is sent to the insurance companies, the companies have 60 days to make changes to the guest software and maps to make the applications more suitable to their individual business needs. For this reason, it is necessary to maintain two versions of the software. During these 60 days, the UPCR screen, which UPA is replacing, may be accessed by entering the function code "TPCR," while the function code "UPA" will execute the recently modified modules. After the 60-day period, TPCR will no longer be available.

COMPONENTS:    *Guest input program*
UGU3121P

*Guest output program*
UGU3122P

*Host programs*
UHU3123P
UHU3124P

*Map*
UGU1120M

*Lx table*
UGU1120T

*Copy books*
UGZCOMMY       (UGU31121P, UGU31122P)
UHZCOMMY       (UHU31123P, UHU31124P)
UIU3112AY        (UGU31121P, UGU31122P,
                      UHU31123P, UHU31124P)
UGU3112BY       (UGU31121P)
UGU3112CY       (UGU31122P)
UGZ1RFLY        (UGU31122P)
UHUILOGY        (UHU31123P, UHU1124P)
MSUYTRAN       (UHU31124P)
MREYIORC       (UHU3123P, UHU3124P)

*External name*
UPA

*Internal names*
PA10, PA11, PA12, PA13, PA14

## AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - UMS Menu
F3 - Limited secondary session (requires function change)
F4 - Screen hopping required function change
F5 - Not available
F6 - Screen hopping (requires function change)
F7 - Not available
F8 - Not available
F9 - Not Available
F10 - Not available
F11 - Not available
F12 - Update

## UGU3121P - GUEST INPUT

INPUT:              *Map*
UGU3120M

*Data*
Action code (Required)
Policy type (Required)
Insurance company number (Required)
Policy number (Required)
Policy effective date (Required)
Cancel effective date (Required to cancel)
Cancel reason code (Required to cancel)
Unpaid premium (Optional to cancel)
Reinstate effective date (Required to reinstate)
Reinstate reason code (Required to reinstate)
Clear/Amend Unpaid Reason (Required to clear unpaid)
Policyholder license number (Required for policyholder amend for a person owner)
Policyholder license state (Required for policyholder amend as above)
Last name (Optional for policyholder amend)
First name (Optional for policyholder amend)
Middle name (Optional for policyholder amend)
DOB (Optional for policyholder amend)
Mail address (Optional for policyholder amend)
City (Optional for policyholder amend)
State (Optional for policyholder amend)
Policyholder FID (Required for policyholder amend for a nown owner)
Zip (Optional for policyholder amend)
Bldg/Apt (Optional for policyholder amend)

PROCESS:    If this program is being accessed for the first time, the message "Please Enter Keys" is displayed on the screen. The user must respond by entering the required key data fields. The policy effective date is required and may be entered in several formats. For example, if the policy effective date is January 5, 1990, the user may enter it as "010590," "01051990," or "01/05/1990." This date will be displayed on the screen as "01/05/1990" when the enter key is pressed.

If the program is entered as the result of the user pressing the enter key, the program edits the key data fields that have been entered or changed. If the user is updating the policy and the update fields have changed, then the update fields are also edited.

The primary key data fields include the policy type, insurance company number, policy number, and policy effective date. The policy type is "P" for private or "C" for commercial. The insurance company number cannot be zeroes and the policy effective date must be entered. The data in the policy number field is edited as a bind number or a policy number. If the data entered in the policy number field begins with a "#," it is a bind number and must be followed by 15 numeric characters. Otherwise, it is assumed to be a policy number, and the program removes any embedded spaces, left justifies the field, and edits for alphanumeric characters. If the key data fields pass the edits, they are moved to the guest-to-host block and passed to the Host Retrieval program (UHU3123P). Also moved to this block is the internal name, PA10, PA11, PA12, PA13, or PA14. PA10 is used for requesting policy information, PA11 is used for requesting Massachusetts license information, PA12 is used for requesting out-of-state license information, PA13 is used for updating policy information, and PA14 is used for inquiring by FID.

The update data fields for cancellation or reinstatement actions include the effective dates, reason codes, and unpaid premium. The valid cancellation reason codes are "NONP," "UNDW," "VOLU," "FRAU," "SURC," "REVO," "VOID," "DISS," "SOLD," "XFER," "FINC," "CANC," and "OTHR." The valid reinstatement reason codes are "RCAN," "ECAN," and "BOA." To reinstate with a reason of "BOA" (reinstatement Board of Appeals), the user must have CAB authority. If a cancellation is being processed, an unpaid premium amount can be entered in dollars.

Before any update may be performed on a policy, the user must first have security to perform the update. This means that the user may only update their own insurance policies.

To be eligible for cancellation, an insurance policy must be in "active" or "bound" status. If the policy is already in advance-cancel status, a message will be displayed. If the user wishes to cancel an advance policy (not in active or bound status), the effective date must equal the policy effective date. If the user wishes to advance cancel an active policy, the effective date must be greater than the current date and within policy effective dates. If the user wishes to do an immediate cancel of an active policy, the cancellation effective date must be less than or equal to the current date and within the policy's effective dates.

To be eligible for reinstatement, an insurance policy must be in "cancel" status or "advance-cancelled" status, and must have no vehicle registrations associated with it in "revoked" status. For reinstatements of cancelled policies, the reinstatement effective date will default to the policy's status date (equal to the cancellation effective date). For reinstatements of advance-cancelled policies, the reinstatement effective date will default to the advance-cancellation effective date.

To be eligible for a clear/amend unpaid premium action, an insurance policy must be in "cancel" status and, in the case of a clear unpaid premium, the unpaid premium amount must be greater than zero. The update data field for a clear/amend unpaid premium action is the clear reason code. The valid clear unpaid reason codes are "PAID," "EPAY," and "EAMT."

To be eligible for a bind action, an insurance company policy must be in "bind" status and the first digit of the policy number must be a "#". The update data fields for a bind action include policy number and the policy effective and expire dates. The new insurance company policy number entered must not contain a "#" in digit one and it must not be found on the database.

To be eligible for a policyholder amend, an insurance company policy must not be in "cancel" status. The update data fields for a policyholder amend include license number and license state for private policies, or FID for commercial. If an out-of-state license can be added, the update fields also include last name, first name, middle name, DOB, mail address, city, state, zip, and bldg/apt. If the policyholder is changed to a Massachusetts license, that license must exist on the database. Likewise for FID. If the policyholder is changed to an out-of-state license that does not exist on the database, the out-of-state license may only be added if the policy being amended currently has no policyholder. If the policyholder is not a licensed operator, "NOLICENSE" and "XX" can be entered in the license number and license state.

To be eligible for a vehicle amend, an insurance company policy must not be in "cancel" status. Enter "V" and the screen hops to the UPMV screen to do this.

If the program is accessed because the F12 key has been pressed (the update key), the program checks for key data field changes. If any of these fields have changed since the update process began, the key data fields are edited. If no errors are encountered, the data is moved to the guest-to-host block and passed to UHU3123P for

retrieval.  If the key data fields have not changed, the update data fields are edited.  If no errors are encountered, the data is moved to the guest-to-host block and passed to the Host Output program (UHU3124P) to perform the policy update.

OUTPUT:     If no errors are detected, the output from this program is placed in the guest-to-host block.  This block is passed to UHU3123P when database retrieval is performed and to UHU3124P when database update is performed.  If an error is detected, an error message is moved to the common area and control is transferred to the LX Table (UGU3120T).

MESSAGES:     410001001 - PLEASE ENTER KEYS
410001002 - POLICY EFFECTIVE DATE MISSING
410001003 - POLICY # MISSING OR INVALID
410001004 - INS COMPANY # INVALID
410001005 - REASON CODE INVALID
410001006 - ENTRY NOT VALID
410001008 - POLICY # CONTAINS INVALID CHARACTERS
410001010 - NO SURROGATE FOR F9
410001011 - REQUIRED FIELD MISSING, PLEASE KEY
410001012 - CANCELLATION EFFECTIVE DATE INVALID
410001013 - REINSTATEMENT EFFECTIVE DATE INVALID
410001014 - NO ERRORS - PRESS F12 TO UPDATE
410001024 - NO SURROGATE FOR F4
410001025 - F7/F8 NOT ALLOWED
410001035 - POLICY IN FUTURE CANCEL STATUS
                ALREADY
410001038 - MUST HAVE CAB AUTHORITY TO USE
                 REASON CODE OF BOA
410001058 - CANT F12 AFTER UPDATE COMPLETE
410001060 - MUST CHANGE TO A NEW PLCY HLDR TO F12
410001101 - UNKNOWN NOWN NOT ALLOWED
410001102 - COMM EFF DATE INVALID
410001107 - 24 VEHC WARNING
410001105 - INV. POLICY TYPE

CALLED MODULES:     None


# UHU3123P-HOST RETRIEVAL

INPUT:     Guest-to-host block from UGU3121P

PROCESS:  After initialization, the program accesses the database to retrieve the policy and policyholder data for an inquiry action code or when the read-all-records flag is set. This flag is set (turned on) by the Guest Input program (UGU3121P) in three different cases. The first case is when the screen is entered for the first time and the action code entered was not an "I" (inquiry). The second case is when the user is updating a policy and he/she changes the action code before pressing F12 to complete the current action. The third case is when the user changed any of the key data fields.

The program obtains the policy record (MMVR-PLCY). This is performed using the policy surrogate, if it is known, or by obtaining the policy stub record (MMVR-PLCY-R) to get the policy surrogate. If the policy is cancelled or advance-cancelled, then the corresponding policy history record (MMVR-PLCY-HIST) that contains the original cancel reason code is obtained. If the person surrogate on the policy record is not zero, the person record (MMVR-PERS) for the policyholder is obtained. Otherwise, obtain the MMVR-NOWN record to get the policyholder. If an address record (MMVR-ADDR) exists for this policyholder, it is obtained and in some cases, the unknown operator record (MMVR-UNOP) is obtained.

The policy's status is converted to a meaningful four character representation and the policy's status date and effective dates are moved to the host-to-guest block. If the advance-cancel indicator on the policy record is set, then a flag is set in the host-to-guest block. If the policy is cancelled or advance-cancelled, the cancel reason code is also converted to a meaningful four character representation and any unpaid premium is moved to the block. For cancelled policies, the policy's status date is moved to the cancellation effective date, but for advance-cancelled policies, the date of the advance-cancellation is moved. The policyholder information is moved to the host-to-guest block. If no policyholder was indicated on the policy record, then "NOLICENSE" is moved as the license and "XX" is moved as the state.

If the action code is an update action code, a call is made to verify that the clerk has update authority. An error message appears if not. This allows inquiry only in production for support staff.

If the action code is an update action code (B, C, R, U, or P), a call is made to UICALLST to verify that the user is updating only his own policies. If he is, then the program verifies that the requested action can be performed on the policy (this verification is only

done when read-all-records flag is set). The verification performed is based on the action code and, when completed, a status indicator and a message code are set in the host-to-guest block. The status indicator and message code will indicate if the requested action is possible or not. The message will get displayed on the screen and the Guest Output program (UGU3122P) will interrogate the status indicator and protect or unprotect the proper fields for that action code.

For a cancellation to be valid, the policy must be in "active" or "bound" status. If it is, the cancellation effective date is initialized using the policy expiration date for expired policies, the policy effective date for advanced policies, and the current date for active policies.

For a reinstatement to be valid, the policy must be in "cancel" or "advance-cancelled" status and have no revoked vehicles attached to it. For cancelled policies, the reinstatement effective date is initialized using the policy status date (date of cancellation). For advance-cancelled policies, the reinstatement effective date is initialized using the effective date of the advance-cancellation. The user's ID is moved to the host-to-guest block. A call to UICALLST is made to determine if the clerk will have the security to use the reason code of "BOA," if he/she should enter it.

For a clear/amend unpaid premium to be valid, the policy must be in "cancel" status. A clear unpaid premium must have an unpaid premium amount greater than zero.

For a bind verification to be valid, the policy number must begin with a "#" sign and the policy must be in "bound" status. If it is, the user will be allowed to continue with the bind verification. To continue, he/she must enter a new policy number (one that does not exist on the database) that does not begin with a "#" sign. By using the read-all-records flag as an indicator, the Host Retrieval program can determine if this is the first time in the program. Policy number verification is only performed when the policy does not begin with a "#" sign (i.e. the "new" policy number) and when the flag is off (not the first time in). When a bind verification is determined to be valid, the user has the option to change the policy effective dates before pressing F12 to apply the updates.

For a policyholder amend to be valid, the policy must not be in "cancel" status. If the policy is not cancelled, the user will be allowed to enter the license/state or FID of the new policyholder. If a Massachusetts license number is entered, it must be found on

the database.  If duplicates exist, the user will be transferred to the License Number scroll screen (LN) so that he/she may select the desired license.  If an out-of-state license number is entered and duplicates exist on the database, the user is transferred to the Out-Of-State License Number scroll screen (LNO) to allow the user to select the desired duplicate.  If an FID was entered, it must be found on the database.  If duplicates are found, the FID scroll screen (RNF) is entered for user selection.

If the policy does not have a policyholder and a new out-of-state license number is entered for a policyholder amend, the user is allowed to add the license.  If a policy does not have a policyholder, then when the policy is inquired upon, "NOLICENSE" is displayed as the license number and "XX" is displayed as the state.  When the user is allowed to add the out-of-state license, he will be able to key in the name, address, and DOB of the policyholder.  If the policyholder does not have a valid license, the user may enter "NOLICENSE" as the license number and "XX" as the state and no database retrieval will be performed.

OUTPUT:         After all the information is obtained from the database and moved to the host-to-guest block, control  is passed to the Guest Output program.

MESSAGES:       410001015 - LR ERROR
                410001016 - IDMS ERROR
                410001017 - RECORD MATCHING KEYS NOT FOUND
                410001018 - INQUIRY COMPLETE
                410001019 - INQUIRY COMPLETE-PLCY CANT BE
                            CANCELLED
                410001020 - INQUIRY COMPLETE-PLCY CANT BE
                            REINSTATED
                410001022 - INQUIRY COMPLETE - PROCEED WITH
                            CANCEL
                410001023 - INQUIRY COMPLETE- PROCEED WITH
                            REINSTATE
                410001026 - BAD PROGRAM CALL
                410001027 - INQUIRY COMPLETE - NOT AUTHORIZED TO
                            PDATE
                410001048 - LICENSE NOT FOUND
                410001049 - OOS LICENSE NOT FOUND - PROCEED WITH
                            ADD
                410001050 - OOS LICENSE NOT FOUND - ADD NOT
                             ALLOWED
                410001051 - INQUIRY COMPLETE - UNPAID PREM CANT
                            BE CLEARED

410001052 - INQUIRY COMPLETE - BIND REQUEST IS NOT
VALID
410001053 - INQUIRY COMPLETE - PLCY CANT BE
AMENDED
410001054 - INQUIRY COMPLETE - BIND ERROR, PLCY
ALREADY EXISTS
410001055 - INQUIRY COMPLETE - PROCEED WITH CLEAR
410001056 - INQUIRY COMPLETE - PROCEED WITH BIND
410001057 - INQUIRY COMPLETE - PROCEED WITH
AMEND
410001101 - UNKNOWN NOWN NOT ALLOWED
410001103 - COMPANY NOT FOUND 1
410001104 - COMPANY NOT FOUND 2
431230001 - BAD LINK LOGGING MOD

CALLED MODULES:     UICALLST (For security, and logging of database errors)

LINKED MODULES:     UHZ0020P (Message logging)

DATA BASE RECORDS OBTAINED:     MMVR-ADDR
MMVR-NOWN
MMVR-PERS-R
MMVR-PERS
MMVR-UNOP
MMVR-VEHC
MMVR-VEHR
MMVR-VMOD
MMVR-PLCY
MMVR-PLCY-HIST
MMVR-PLCY-R
MMVR-PLCY-VEHR
MMVR-NOWN-FID-R

DATA BASE RECORDS STORED:     None

DATA BASE RECORDS MODIFIED:     None

DATA BASE RECORDS ERASED:     None

## UHU3124P-HOST OUTPUT

INPUT:     Guest-to-host block from UGU3121P

PROCESS:      For each action, except vehicle amends, the program builds a policy history record (MMVR-PLCY-HIST) which records the action processed on the policy.  This record is then added to the database and will reflect the new policy status, if it changed.  The database records are built from the data placed in the guest-to-host block by the Guest Input program (UGU3121P).  If the action processed to the policy causes the policy status and status date to change, these are updated on the policy record (MMVR-PLCY) and are moved to the host-to-guest block.  The host-to-guest block is passed to the Guest Output program (UGU3122P) and contains data to be displayed on the screen.

The program obtains the policy record using the policy surrogate in the guest-to-host block.  Once obtained, the program compares the "enqueue count" on the policy record to that in the guest-to-host block, which represents the policy as it appeared when it was initially obtained.  If they are not equal, then the policy has been updated since the initial inquiry and the user must re-inquire on the policy before updating.

For cancellations, the four-character reason code entered by the user is converted to a one-character code and placed on the policy history record.  Any unpaid premium amount is placed on the policy history record and the policy record.  Also, if this is an advance cancellation, then an indicator is set on the policy record and a non-cash record (MMVR-NCSH) is built.  For advance cancellations, the non-cash record will trigger the actual cancellation in batch processing the night of the cancellation effective date.

For reinstatements, the four-character reason code entered by the user is converted to a one-character code and placed on the policy history record.  The unpaid premium amount on the policy record is moved as a negative value to the policy history record and then zeroed out on the policy record.  If this is a reinstatement of an advance-cancelled policy, the advance-cancel indicator on the policy record is turned off.

For bind verifications, the MMVR-PLCY-R record for the bound policy is erased.  A MMVR-PLCY-R record is stored for the new insurance company policy number.  The MMVR-PLCY record is modified with the new policy number and policy effective dates.  If the policy effective dates have changed, the MMVR-PLCY-VEHR and MMVR-VEHR records may be modified in the following manner.  If the current date is greater than the policy expire date and the MMVR-PLCY-VEHR records have status codes of

"currently insured" or "has insured," the MMVR-PLCY-VEHR records are updated. If the current date is equal or less than the policy expire date and the MMVR-PLCY-VEHR records have status codes of "will insure" or "currently insured," the MMVR-PLCY-VEHR records are updated. The MMVR-PLCY-VEHR records are updated with the new effective dates, their new status (if changed), and the bind reason code. If the insurance company (ICO) on a MMVR-VEHR record differs from the policy ICO, and its corresponding MMVR-PLCY-VEHR record status code is not "will insure," the MMVR-VEHR ICO is modified to reflect the policy ICO.

For clear/amend unpaid premiums, the four-character reason code entered by the user is converted to a one-character code and placed on the policy history record (MMVR-PLCY-HIST). The new unpaid premium amount is placed on the MMVR-PLCY record and the amount of the unpaid premium adjustment is placed on the MMVR-PLCY-HIST record.

For policyholder amends, the MMVR-PLCY record is modified with the new owner surrogate and owner type for the policyholder. If the policyholder did not have a valid FID or license number/state, a person surrogate of zero is moved to the MMVR-PLCY record. If an out-of-state license operator is added for the policyholder, MMVR-PERS, MMVR-UNOP, and MMVR-PERS-R records are stored.

OUTPUT:    If any errors are detected when the database is being updated, a rollback is performed. A status indicator and informational message, concerning the update, are placed in the host-to-guest block and passed to the Guest Output program (UGU3122P).

MESSAGES:    410001015 - LR ERROR
410001016 - IDMS ERROR
410001028 - DATA HAS CHANGED SINCE UPDATE
            STARTED, RECHECK
410001029 - UPDATE COMPLETE
410001030 - VEHICLE REGISTRATION NOT FOUND
410001031 - UPDATE FAILED
410001032 - POLICY NOT FOUND
410001037 - UPDATE COMPLETE - PLCY HAS BEEN
            ADVANCE CANCELLED
410001066 - POLICY EFFECTIVE DATE INVALID
410001067 - POLICY EFFECTIVE DATE > 8000
410001068 - INVALID CANCELLED DATE
410001070 - PREMIUM NOT NUMERIC

410001071 - INVALID CANCELLED REASON
410001072 - REINSTATE DATE NOT EQUAL TO POLICY
       DATE
410001073 - REINSTATE EFFECTIVE DATE > 8000
410001074 - INVALID ZIP
410001075 - INVALID REINSTATE REASON
410001076 - UNPAID REASON CODE IS CLEAR
410001077 - PERSON SURROGATE EQUAL ZERO
410001078 - INVALID ADDRESS
410001079 - INVALID NAME
410001080 - INVALID DATE OF BIRTH
410001081 - INVALID LICENSE
410001082 - INVALID LICENSE STATE
410001083 - INVALID NUMBER OF DETAILS
410001084 - INVALID VEHICLE EFFECTIVE DATE
410001086 - INVALID VEHICLE SURROGATE KEY
410001087 - INVALID TOWN CODE

CALLED MODULES:     UICALLST (For logging database errors)

LINKED MODULES:    None

DATA BASE RECORDS OBTAINED:    MMVR-VEHR
                    MMVR-PLCY
                    MMVR-PLCY-R
                    MMVR-PLCY-VEHR
                    MMVR-PLCY-ENQ
                    MMVR-INCD-OFNS-R
                    MMVR-ACTN
                    MMVR-ACTN-ADJD
                    MMVR-SURR-PERS
                    MMVR-DSUR-PERS
                    MMVR-NOWN-FID-R

DATA BASE RECORDS STORED:    MMVR-PLCY-HIST
                    MMVR-NCSH
                    MMVR-PERS
                    MMVR-PERS-R
                    MMVR-NOWN
                    MMVR-UNOP
                    MMVR-ADDR
                    MMVR-PLCY-R
                    MMVR-EXPA
                    MMVR-INCD-OFNS-R

DATA BASE RECORDS MODIFIED:    MMVR-PLCY

MMVR-PLCY-VEHR
MMVR-VEHR
MMVR-ACTN
MMVR-INCD-OFNS-R
MMVR-SURR-PERS


DATA BASE RECORDS ERASED:    MMVR-DSUR-PERS
MMVR-PLCY-R


DATA BASE INDEXES CONNECTED:  MMVS-UNOP-CODE-X
MMVS-PLCY-HLDR-X


## UGU3122P - GUEST OUTPUT

INPUT:        If the action code is "V" for Vehicle Amend, control is passed to the UPMV screen, passing it the surrogate of the policy record.

If control is received from the Host Retrieval program (UHU3123P), input is the host-to-guest block containing the host status indicator and the policy, policyholder, vehicle, registration, and owner information for the entered policy. If control is received from the Host Output program (UHU3124P), the host-to-guest block will contain the host status indicator and an informational message regarding the status of the update. Also, the block will contain the policy's status and status date if they have changed due to the update. If any errors occurred in the Guest Input, Host Retrieval, or Host Output programs, the common area will contain the error message. The host status indicator in the block is set by the host programs and its purpose is to indicate to the Guest Output program the results of the database retrieval or update.

PROCESS:     Since the host status indicator indicates what occurred in the host programs, it's value is checked. If an update was not completed due to a policy change, the host status indicator will be a "7." A message is displayed to reinquire upon the policy and start the update again.

If an update is completed, the host status indicator will be a "5" and the information on the screen is updated. The purpose of this is to save the user from doing an inquiry transaction to view the updated policy information. When the action performed is a cancellation, reinstatement, or bind, the policy status and status date are updated. Also, for reinstatements, the cancel and

reinstatement header lines are cleared. When the action performed is a clear/amend unpaid premium, the clear reason and the unpaid premium amount are cleared. If a vehicle amend is performed and the message from the Host Output program is update completed, a different message will be displayed to the user. This message will specify that the update was completed.

If the host status indicator is not a "7" or a "5," selected information in the host-to-guest block is moved to the common area and displayed on the screen. The information that was in the common area when control was transferred to the host programs is still in the common area. Only the relevant information that has changed will be moved back to the common area. The relevancy of the information is determined by three factors: the host status indicator, the action performed, and the read-all-records flag. When the read-all-records flag is set or the action is an inquiry, this indicates that the Host Retrieval program (UHU3123P) retrieved all the applicable records for the entered policy and they must be moved to the common area. Before they are moved to the common area, the host status indicator is checked. If it is low-values, which indicates the inquiry was not complete, only the key data fields are moved to the common area. When the Guest Output program is finished interrogating the read-all-records flag, the flag is turned off. This indicates the initial read of all the applicable records for the entered policy has been performed and the records have been moved to the common area.

If the read-all-records flag is off and the action code is not an inquiry, then the action code determines what is moved from the block to the common area and thus displayed on the screen. If a policyholder amend action has been performed, the policyholder data is moved because it is the only thing that will have changed on the screen.

All the updateable fields on the screen are then protected and, if the action is an update action, the applicable fields are unprotected based on the action code and the host status indicator that was set by the Host Retrieval program (UHU3123P). The host status indicator is set to indicate if the desired action is valid for the entered policy. The following lists the fields that are unprotected if the action performed is valid for the policy. For binds, the policy expiration date is unprotected. For cancellations, the cancellation effective date, reason code, and unpaid premium are unprotected. For reinstatements, the reinstatement reason code is unprotected. For clear/amend unpaid premiums, the clear reason code is unprotected. For policyholder amends, the policyholder license

and state are unprotected, along with the FID. If it is determined that an out-of-state policyholder may be added, the policyholder name, address, and DOB fields are also unprotected.

For reinstatements, the reason code is checked and if it is "BOA," the user must have CAB authority or an error will occur.

If the error code in the common area is zero, indicating that no errors were found, a message is moved to the common area to be displayed on the screen. For binds, the message displayed is to press F12 to update. For policyholder amends, the new policyholder person surrogate is compared to the original policyholder person surrogate (from when the policy was initially inquired upon) to make sure they are different before allowing the user to press F12 to update.

OUTPUT:  If no errors occurred, the policy, policyholder, registration, and owner information is displayed on the screen, along with the applicable message. Otherwise, the error message is displayed.

MESSAGES:  410001014 - NO ERRORS - PRESS F12 TO UPDATE
410001038 - MUST HAVE CAB AUTHORITY TO USE
                  REASON CODE OF BOA
410001060 - MUST CHANGE TO A NEW PLCY HLDR TO F12

CALLED MODULES:  None

LINKED MODULES:  UGZ0022P - Reference manager

# DOCUMENTATION OF UNINSURED MOTORIST HOST INTERFACE

**PA10 -Request for policy information using insurance company code, policy type, policy number, and policy effective date or by using the policy surrogate.**

This request may also be for policyholder information using a person or nown surrogate. This request invokes the Host Retrieval program (UHU3123P) to perform database retrieval. Policy and policyholder information is retrieved and then transmitted back to the guest.

**PA11 -Request for policyholder information using a Massachusetts license number.**

This request invokes the Host Retrieval program (UHU3123P) to perform database retrieval. If a duplicate is found, control is transferred to the LN

screen for resolution.  The policyholder information is retrieved and then transmitted back to the guest.

**PA12 - Request for policyholder information using an out-of-state license number/state.**

This request invokes the Host Retrieval program (UHU3123P) to perform database retrieval.  If a duplicate is found, control is transferred to the LNO screen for resolution.  The policyholder information is retrieved and then transmitted back to the guest.

**PA13 - Request to update policy information based on the action code.**

This request invokes the Host Output program (UHU3124P) to perform database updates.

**PA14 - Request for policyholder information using a Federal ID number.**

This request invokes the Host Retrieval program (UHU3123P) to perform database retrieval.  If a duplicate is found, control is transferred to the RNF screen for resolution.  The policyholder information is retrieved and then transmitted back to the guest.

# 29

# Policy History Inquiry

## UPH Function

TITLE:              POLICY HISTORY INQUIRY

DESCRIPTION:     The UPH function is used to display insurance policy information
for a policyholder's license number or FID number.  The user must
enter the license number to view this screen.  The state code must
also be entered for out-of-state licenses.  If more than one person
has the same license number/state, the user is transferred to one of
two license number scroll screens to resolve the duplicate license
number.  For Massachusetts duplicate license numbers, the user is
transferred to the License Number Scroll (LN) screen.  Out-of-state
license duplicates are resolved on the Out-Of-State License
Number Scroll (LNO) screen.

The F3 key provides access to the UPA and UPTH screens.  The
UPA (Policy Amend) screen will be used in this secondary session
example.  After the user has displayed the policy history for a
person using the UPH screen, the user places the cursor on the
desired policy detail line, changes the function code from UPH to
UPA and presses F3.  This will transfer the user to the UPA screen
and display the information for the desired policy.  At this time, the
user is in inquiry mode, but may change the action code and press
the Enter key to change the mode to update.  When the user is
finished inquiring or updating a policy, he/she may press the Clear
key or the F1 key to return to where he/she was on the UPH
screen, thus resuming the primary session.

The F11 key is used for rescrolling.  When the user has been
transferred to the UPH screen because he/she pressed the F4 or F9
key on a scroll screen, the user may decide he/she has selected the
wrong person.  The user may return to the scroll screen, in order to
make a new selection, by changing the function code to the
appropriate scroll screen's function and pressing the F11 key.

When a tape of a new UMS release is sent to the insurance
companies, the companies have 60 days to make changes to the
guest software and maps to make the applications more suitable to

their individual business needs.  For this reason, it is necessary to maintain two versions of the software.  During these 60 days, the old version of UPH may be accessed by entering the function code "TPH," while the function code "UPH" will execute the recently modified modules.  After the 60-day period, TPH will no longer be available.

NOTE:  A typical use of the UPH screen would be to find the insurance policy information for policyholders using their license number/state.

COMPONENTS:

*Guest input program*
UGU3041P

*Guest output program*
UGU3042P

*Host program*
UHU3043P

*Map*
UGU3040M

*Lx table*
UGU3040T

*Copy books*

| | |
|---|---|
| UGZCOMMY | (UGU2041P,UGU2042P) |
| UHZCOMMY | (UHU2043P) |
| UGU304IY | (UGU2041P,UGU2042P) |
| UGU3UPHY | (UGU2041P) |
| UIU304OY | (UGU2042P,UHU2043P) |
| UGZ2RFLY | (UGU2042P) |
| UHUILOGY | (UHU2043P) |
| UHU3DIPY | (UHU2043P) |

*External name*
UPH

*Internal names*
UU22, UU23, UU24

AVAILABLE FUNCTION KEYS:

F1  - End session
F2  - UMS Menu

F3  - Limited secondary session
F4  - Select from scroll screen
F5  - Not available
F6  - Screen hopping
F7  - Page backward
F8  - Page forward
F9  - Resolve duplicates from License Scroll screens
F10 - Not available
F11 - Rescroll
F12 - Not available

NOTE:  F3, F4, and F6 requires function change

## UGU3041P - GUEST INPUT

INPUT:
*Map*
UGU3040M

*Data*
License number (Required if FID is blank)
License state (Required for out-of-state licenses)
FID number (Required if license is blank)

PROCESS:
The first time the screen is displayed, it displays the message "PLEASE ENTER REQUIRED FIELDS."  If a license number is entered but no license state is keyed, the program initializes the state to 'MA.'  If the license number and/or state, or the FID number have been entered or changed, they are moved to a part of the common area, called the guest-to-host block, that is sent to the Host Retrieval program (UHU2043P).  Also, the internal name UU22 is moved to the guest-to-host block for Massachusetts license numbers, the internal name UU23 is moved for out-of-state license numbers, or the internal name UU24 is moved for federal identification (FID) numbers.

If this program is entered because the F4 key was pressed on a scroll screen, then the person surrogate from the common area is moved to the guest-to-host block.  If the user pressed F7/F8 for paging, the appropriate surrogate is moved from the common area to the guest-to-host block for the Host Retrieval program to process.

OUTPUT:
If no errors are detected, the output from this program is placed in the guest-to-host block and passed to UHU3043P.  If an error is

detected, an error message is moved to the common area and control is transferred to the Guest Output program (UGU3042P).

MESSAGES:      411001016 - F7 is not valid
411001015 - No surrogate found for F4
411001012 - Entry not valid
411001011 - Required field missing - Please key
411001014 - End of set - No more records
411001013 - F8 for more records

CALLED MODULES:    None

## UHU3043P - HOST RETRIEVAL

INPUT:      Guest-to-host block from UGU3041P

PROCESS:    First, it is determined whether a license number or FID number was entered. If a license number was entered, the program determines if the license is an in-state or out-of-state license before using the license number/state in obtaining the person information. If the state is 'MA,' the person stub record (MMVR-PERS-R) and person record (MMVR-PERS) are obtained. In some situations, the program will also obtain the unknown operator record (MMVR-UNOP) to display out-of-state license information. If the state is not 'MA,' the unknown operator record and the person record are obtained. Next, the address record (MMVR-ADDR) is obtained for address information. If an FID was entered, the FID stub record (MMVR-NOWN-FID-R) is used to obtain the non-individual owner, aka the nown, (MMVR-NOWN) record and the FID (MMVR-FID) record.

If the license number/state entered by the user is found to have duplicates, the user is transferred to one of two license number scroll screens to resolve the duplicate, one for Massachusetts licenses and the other for out-of-state licenses. The user would then resolve the duplicate by placing the cursor on the desired license and pressing the F9 key. The person surrogate for the chosen license is used to obtain the person and policy information. The person surrogate is also used this way when a user presses F4 to select from a scroll screen.

If an FID entered by the user is found to have duplicates, the user is transferred to the duplicate resolution screen, Corporate Scroll by FID (RNF). The user would then resolve the duplicate by

placing the cursor on the desired FID and pressing the F9 key. The nown surrogate for the chosen FID is used to obtain the nown and policy information. The nown surrogate is also used this way when a user presses F4 to select from the scroll screen.

The policy surrogates and database keys are used when the user presses F7/F8 for paging. To page forward, the user presses F8. To page backward, the user presses F7.

The program then obtains the owner's policy records (MMVR-PLCY). The policy information is moved, along with the owner/policy holder information, to a part of the common area called the host-to-guest block that is sent back to the Guest Output program (UGU3042P).

The Host Retrieval program also converts the policy history status code to meaningful four character representations. The status code conversion is determined using the policy history status code, policy effective date, policy expiration date, and the current date. Once the status is converted, it is moved to the host-to-guest block.

A link is performed to the SDIP (Safe Driver Insurance Points) program (UHU301CP) to calculate the unpaid premium amount.

OUTPUT:      The owner/policy holder information and policy information are moved to the host-to-guest block when no errors exist. Otherwise, an error code is moved to the common area. Control is passed to the Guest Output program (UGU3042P).

MESSAGES:      411001003 - A record matching entered key(s) was not found
411001006 - No policy records for this person
411001004 - LR error
411001007 - Bad program link
411001008 - Database error
412043001 - Response not normal
412043002 - Response not normal

CALLED MODULES:      UICALLST (For logging errors)

LINKED MODULES:      UHU301CP  - SDIP

DATA BASE RECORDS:      *Obtained*
MMVR-ADDR
MMVR-NOWN
MMVR-NOWN-FID-R
MMVR-PERS

MMVR-PERS-R
MMVR-PLCY
MMVR-UNOP

*Stored*
None

*Modified*
None

*Erased*
None

# UGU3042P - GUEST OUTPUT

INPUT:           Host-to-guest block from UHU3043P containing the owner/policy holder and policy information for the license number-state/FID number and/or any error messages generated by the Guest Input or the Host Retrieval programs.

PROCESS:         The information in the host-to-guest block is moved to the common area and displayed on the screen.

                 A link is performed to the reference manager to manage the reference list that is needed for scrolling. A page table is maintained with surrogates for the first and last entry on each page. The next time the F7 or F8 key is pressed, the appropriate surrogate is moved from the page table to the common area. Also, the owner/policy holder surrogate is moved to the common area so that it may be used for screen hopping.

OUTPUT:          If no errors occurred, the owner/policy holder and policy information is displayed on the screen. Otherwise, the error message is displayed.

MESSAGES:        411001006 - No policy records for this person
                 411001001 - F8 for more records
                 411001002 - No more records

CALLED MODULES:     None

LINKED MODULES:     UGZ0022P  -  Reference Manager

# DOCUMENTATION OF UNINSURED MOTORIST HOST INTERFACE

**UU22 - Request for operator policy history information using a Massachusetts license number.**

> This request invokes the first host program to obtain a person surrogate using the given license number. If a duplicate is found, control is transferred to the LN screen for resolution. The person and policy information is retrieved and then transmitted back to the guest.

**UU23 - Request for operator policy history information using an out-of-state license number.**

> This request invokes the first host program to obtain a person surrogate using the given license number/state. If a duplicate is found, control is transferred to the LNO screen for resolution. The person and policy information is retrieved and then transmitted back to the guest.

**UU24 - Request for operator policy history information using a federal identification (FID) number.**

> This request invokes the first host program to obtain a non-individual (NOWN) surrogate using the given FID number. If a duplicate is found, control is transferred to the RNF screen for resolution. The nown and policy information is retrieved and then transmitted back to the guest.

# 30      Policy Change of Carrier

## UPIC Function

TITLE:             POLICY INFORMATION CHANGE OF CARRIER REQUEST

DESCRIPTION:      UPIC is used to process policy change of carriers. This function allows the user to enter a new policy with up to 24 vehicles. The user is only allowed access to UPIC after successful inquiry of the operator has been done on the UPOI screen. The policy information, name, and address information from the UPOI screen carries over to the UPIC screen for further processing. The UPIC screen has eight pages, with each page holding up to three vehicles.

The program checks each vehicle entered for a duplicate registration or VIN on the database. If a duplicate exists, the user is transferred to the appropriate scroll screen to resolve the duplicate condition.

NOTE: A typical use of the UPIC function would be to change the insurance carrier when only the operator's license number is known.

COMPONENTS:     *Guest input program*
UGU4021P

*Guest output program*
UGU4022P

*Host program(s)*
UHU4023P
UHU4024P
UHU4025P

*Map*
UGU1020M

*Copy books*
UGZCOMMY         (ALL)

|              |               |
|--------------|---------------|
| UIU3010Y     | (UGU1021P)    |
| UIU4120Y     | (ALL)         |
| UGU4PICY     | (UGU1021P)    |
| UIU3020Y     | (UGU1022P)    |
| UHUILOGY     | (UHU1023P)    |
| UHRREGSY     | (UHU1023P)    |
| UILXCNST     | (UHU4025P)    |
| MREYIOWK     | (UHU4025P)    |
| MUMYVEHC     | (UHU4025P)    |

*External name*
UPIC

*Internal name*
UU21, UU20

## AVAILABLE FUNCTION KEYS:

F1  - End session
F2  - UMS menu
F3  - Not available
F4  - Not available
F5  - Not available
F6  - Not available
F7  - Scroll to the first page
F8  - Scroll to the second page
F9  - Not available
F10 - Not available
F11 - Not available
F12 - Update

## UGU4021P - GUEST INPUT

INPUT:

*Map*
UGU4020M

*Data*
Common area from UPOI screen:
Policy type (Required)
Insurance company (Required)
Effective date (Required)
Expiration date (Required)
Renewal indicator (Optional)
Policyholder info (Optional)

Common area from the UPIC screen:
Policy type (Required)
Policy number (Optional)
VIN (Either the VIN or Registration)
First/Last name (Required if the license number is an out of state and is not found)
Federal Id Number (Required if the FID number is not found)

PROCESS:     After initialization, the program determines from where and under what circumstances it was accessed.

If accessed the first time, the message "PLEASE ENTER THE REQUIRED KEYS" is displayed on the screen. The user must respond by entering the requested keys.

After the required data is entered, the program edits the policy number and town code. The UPOI screen requires either a license number or a Federal Identification number (FID). If the FID is not found on the database, the user will be required to enter the address information. If the license is an out-of-state license that is not found on the database, the user is required to enter the full name, date of birth, and address information. If the license and state entered on the UPOI screen were "NOLICENSE" and "XX," the address fields are protected on the UPIC screen.

Vehicles that exist on the database are added to the policy by the user. To find a vehicle on the database, the user must enter the VIN and/or registration number. If the vehicle is found, the corresponding information is displayed on the screen. Otherwise, an error message is displayed indicating why the vehicle is not found. Before the policy can be added to the database, all errors on the screen must be corrected.

Up to twenty-four vehicles may be added to a policy. Since there are only three vehicles per page, the user must enter three vehicles, then F8 to the following pages to enter the rest. Again, if there are any errors on the current page, the user is not allowed to scroll to the other page.

The same VIN or registration number cannot be entered more than once. When a VIN or registration number is entered, it is checked against the other vehicles to make sure a duplicate is not entered. If duplicate information is entered, an error message is displayed.

The vehicle information must be entered in a serial format. If the user skips a vehicle, the program checks the previous vehicle entries for an empty one. If any of the previous vehicle entries are blank, the vehicle information that was entered is moved to the first available vehicle entry. For example, if no vehicle information is entered for vehicle one, and a registration number is entered for vehicle two, the program moves the information obtained about vehicle two to vehicle one and blanks out vehicle two.

OUTPUT:
If no errors are detected, the output from this program is placed in the common area and passed to the Host Input program (UHU4023P). If an error is detected, an error message is formatted and displayed back to the user requesting further action.

MESSAGES:
413001004 - F8 for more or F12 to update
413001005 - Record not found
413001009 - F7 to page backward or F12 to update
413001008 - Duplicates exist - press enter to resolve
413001010 - No REG found for vehicle
413001006 - LR error
413001002 - Update complete
413001022 - F12 to update
413001012 - Policy number invalid
413001013 - Required field missing
413001014 - F7/backward or F8/forward
413001015 - Please enter required keys
413001016 - No more vehicles to display
413001017 - Duplicate REG entered
413001018 - Enter all vehicle info before F8
413001019 - Invalid characters keyed
413001020 - Duplicate VIN entered
413001021 - Entry not valid
413001025 - Need at least one vehicle for F12
413001027 - Enter VIN or reg for town code
413001028 - New town code entered, F8 or F12 to update
413001029 - New town code entered, F7 or F12 to update
413001026 - New town code entered, press F12 to update
413001045 - Corporate name required
413001046 - Address required
413001051 - Last vehicle
413001055 - Bad DOB
413001056 - Bad DOB convert date
413001057 - Bad current convert date

CALLED MODULES:    None

## UHU4023P - HOST INPUT

INPUT:              Common area from UGU4021P

PROCESS:            During initialization the following occurs:

        1) Set up commarea

        2) Initialize the vehicle table

        3) Get the application ID and the system ID

        4) If VSAM processing is being done, link to UHU4025P to edit check the vehicles on the current screen with respect to the rest of the vehicles entered in previously

        5) trap any errors returned from the vehicle table processing (UGU4025P)

        6) Bind the run unit if no errors have occurred.  The program determines if the address information needs to be displayed on the screen.  If so, the MMVR-PERS or MMVR-NOWN record is obtained from the database for the name and address information.

The program determines if the address information needs to be displayed on the screen.  If so, the MMVR-PERS or MMVR-NOWN record is obtained from the database for the name and address information.  Before the vehicle information is obtained, the program checks if a VIN or registration number has been passed to the program.  If the VIN is passed to the program, the vehicle and registration information is obtained by either the VIN or VEHC-NUMB-SURR.  If a duplicate VIN is found, an error number is placed in the common area, and control is passed to the Guest Output program (UGU4022P) to display the error message.

If the registration number has been passed to this program, the vehicle and registration information is obtained by either the registration number or VEHR-NUMB-SURR.  If a duplicate registration number is found, an error number is placed in the common area.  Control is passed to UGU4022P to display the error message.

OUTPUT:    If no errors are detected and VSAM processing is being done, output the VSAM record.  If no errors are detected, the output from this program is moved to the common area for use by the Guest Output program (UGU4022P).  If errors are detected, control is transferred to the protocol processor.

MESSAGES:    413001011 - Policy number already on file
413001006 - LR error
413001007 - DML error
413001016 - No more vehicles

LINKED MODULES:    UHU4025P (Edit/merge current vehicles from  screen into vehicle table)

CALLED MODULES:    UHRSREGS (Determine status of registration and confidentiality)

UICALLST (For logging database errors)

VSAM FILE:    DDNAME:    TEST REGION - VEHCCV10
PROD REGION - VEHCCV11
TRAINING REGION - VEHCCV12
MODEL OFFICE - VEHCCV13
FULL VOLUME - VEHCCV14

DATA BASE RECORDS:    *Obtained*
MMVR-PERS
MMVR-ADDR
MMVR-PLCY-R
MMVR-VEHC
MMVR-VMOD
MMVR-VEHR
MMVR-UNOP
MMVR-VEHR-OWNR
MMVR-NOWN
MMVR-ERMV
MMVR-ERAP

*Stored*
None

*Modified*
None

*Erased*
None

## UHU4025P - Vehicle Table Processing

INPUT:               Common area from UHU4023P

PROCESS:             Read the VSAM file and load the current vehicle data into the vehicle table.  Then all the vehicles in the table go through the same vehicle edit checks that are done in the guest input program (UGU4021P).  That is to say, the current vehicles are compared with the rest of the table searching for duplicate registrations and/or VIN's.  Also, if any of the current vehicles on the screen have been spaced out, any remaining vehicles following the vehicle that was spaced out will be moved so as to eliminate the empty table entry.

OUTPUT:              The vehicle table and any errors are passed back to the Host Input program (UHU4023P).

MESSAGES:            413001008 - Resolve duplicates
                     413001005 - Record not found
                     413001010 - No registration
                     413001006 - LR error
                     413001002 - Update successful
                     413001016 - No more VEHC
                     413001017 - Duplicate registration
                     413001020 - Duplicate VIN

## UHU4024P - HOST UPDATE

INPUT:               Common area from UHU4023P

PROCESS:             After initialization, fields that are passed from the guest programs are verified for reasonability to ensure the validity of the data.  If the reasonability edits are passed, the program builds the new policy (MMVR-PLCY MMVR-PLCY-R, and MMVR-PLCY-HIST), policy registration records (MMVR-PLCY-VEHR), and vehicle registration records (MMVR-VEHR) for the new policy.  If no policy number exists for this policy, a bind number is created to be used instead of the policy number.  If the license number is an out-of-state license that is not present on the database, the person information is stored in the database (MMVR-PERS, MMVR-PERS-R, MMVR-ADDR, and MMVR-UNOP).  If a Federal Identification number (FID) has been supplied by the user that is

not on the database, the nown information is stored on the database (MMVR-NOWN and MMVR-NOWN-FID-R).

Next, the program searches the policy vehicle registration records (MMVR-PLCY-VEHR) for the policy until it finds one with the status of five (revoked).  The five is changed to a three (expired) and the vehicle registration record is modified.  An incident/offense record (MMVR-INCD-OFNS-R) is stored with an INCD-CODE-TYPE-PHYS of 'M' (action reinstatement) and an SC non-cash record is stored.  This process is performed for each policy vehicle registration record on the policy.

OUTPUT:    The output from this program is an error number or a number for an informational message.  This number is moved to the common area so a message may be displayed on the screen.  If the policy number is not present, the bind number is moved to the common area.

MESSAGES:    UHU4024L00001102 - Record obtained
UHU4024L00001202 - Other actions
UHU4024L03261101 - Record not found
UHU4024L00009010 - Modified record OK
UHU4024L00001001 - OFNS-NCSH record stored
UHU4024L03261301 - VEHR not found
UHU4024L00001401 - SLR-NCSH record stored

CALLED MODULES:    UICALLST (for logging database errors and for date conversion)

DATA BASE RECORDS:  *Obtained*
MMVR-SURR-PERS
MMVR-DSUR-PERS
MMVR-SURR-PLCY
MMVR-DSUR-PLCY
MMVR-VEHR
MMVR-ACTN
MMVR-INCD-OFNS-R
MMVR-PLCY-VEHR
MMVR-ACTN-ADJD
MMVR-ERAP

*Stored*
MMVR-PERS
MMVR-PERS-R
MMVR-UNOP
MMVR-NOWN

MMVR-NOWN-FID-R
MMVR-PLCY
MMVR-PLCY-R
MMVR-PLCY-HIST
MMVR-PLCY-VEHR
MMVR-EXPA
MMVR-INCD-OFNS-R

*Modified*
MMVR-SURR-PERS
MMVR-SURR-PLCY
MMVR-VEHR
MMVR-ACTN
MMVR-INCD-OFNS-R
MMVR-PLCY-VEHR
MMVR-ERAP

*Erased*
MMVR-DSUR-PERS
MMVR-DSUR-PLCY


## UGU4022P - GUEST OUTPUT

INPUT:         Registration and vehicle information is returned for each vehicle. If the person's information is not already displayed on the screen, it is passed to this program to be displayed. The bind number is also passed if the user pressed F12 and no policy number was provided.

PROCESS:     After initialization, the specialized logic for scrolling and the enter key. This logic reloads the screen fields, if necessary, and properly sets field display attributes. Also, error messages are moved out to the commarea for display when necessary.

OUTPUT:      The registration and vehicle information and/or an informational message is displayed on the screen.

MESSAGES:   413001018 - Enter all vehicle info before F8
413001016 - No more vehicles
413001014 - F7 or F8
413001028 - New town code entered, F8 or F12 to update
413001129 - New town code entered, F7 or F12
413001004 - F8 or F12 to update
413001009 - F7 or F12 to update

413001008 - Resolve duplicates
413001005 - Not found
413001010 - REG not found
413001006 - LR error
413001002 - Update complete
413001022 - F12 to update
413001026 - New town code entered, press F12 to update
413001015 - Enter required keys
413001017 - Duplicate REG
413001020 - Duplicate VIN

CALLED MODULES:     None

# 31      Policy Vehicle Amendment

## UPMV Function

TITLE:                 MULTIPLE VEHICLE AMEND

DESCRIPTION:     The UPMV screen is used to inquire on, add, or delete the vehicles associated with an insurance policy. The required key data fields are policy type, insurance company code, policy number, and policy effective date. The screen will display policy information, policyholder name, and all the vehicles, registrations, and owners currently insured on the policy. Optional key data fields are plate type and registration number. When these are keyed, the screen will display vehicles starting with the keyed registration.

To process a policy vehicle inquiry, an action code of "I" is entered with the required and optional key data fields.

To process a policy vehicle add, an action code of "A" is entered with the required key data fields. The optional key data fields are not allowed on an add. The 12 vehicle detail lines will be cleared and the new vehicles may be added. The keys that may be entered are VIN or plate type, registration, and plate color. The keys entered on each detail line must be unique and must exist on the database. If there are duplicate records on the database for the VIN or registration entered, a screen of duplicate key choices is displayed to allow the user to select the desired duplicate. The vehicle effective date is a required field, while the premium town code is optional. The vehicle effective date must be within the policy effective dates. When updates are applied to the database for an added vehicle, this date will become the vehicle's beginning coverage date. If a premium town code is entered and it is different from the registration's town code, an informational message is displayed. The F12 key is used to apply the updates to the database. Twelve vehicles may be added at one time. Once these vehicles have been added to the database, pressing F8 or Enter will clear the vehicle detail lines and allow 12 more vehicles to be added.

To process a policy vehicle delete, an action code of "D" is entered with the required and optional key data fields. The vehicle effective date initially displayed, (i.e. the vehicle's beginning coverage date), is cleared and the user must enter the effective date of the delete. The entered vehicle effective date must be within the policy effective dates and not less than the vehicle's beginning coverage date. When updates are applied to the database for a deleted vehicle, this date will become the vehicle's ending coverage date. The F12 key is used to apply the updates to the database. Once the database updates are complete, the updated vehicle information will automatically be displayed.

Security will only allow insurance companies to update their own policies. However, inquires may be performed on policies for any company.

The F3 key provides access to a limited secondary session. The Registration/Title Inquiry screen (URI) will be used in this secondary session example. After the user has displayed the information for a policy on the UPMV screen, which includes the VINs and registrations connected with that policy, they change the function code from UPMV to URI, place the cursor on the desired VIN/Registration detail line, and press F3. This will transfer them to the URI screen and display the information for the selected registration. To return to the UPMV screen, the user may press the Clear or F1 key. After being returned to the UPMV screen, a message is displayed saying that the primary session has been resumed.

The F6 key can be used for screen hopping. The user will be able to screen hop to screens that have a policy, license, or FID number as their primary key. For example, the user may F6 to UPTH using the policy displayed on UPMV or F6 to UPH using the policyholder's license or FID number.

The F7 and F8 keys can be used for paging backward and forward if the policy covers more than 12 vehicles.

The F9 key can be used as a quick way to jump to the UPA screen. If a policy has been displayed and the user presses the F9 key while the cursor is located anywhere on the first 12 lines of the screen, the user will be screen hopped to UPA. It is important to note that if the user is on a screen that allows limited secondary sessions (F3 key) and they transfer to UPA and then use the "V" action code to transfer to UPMV, they must use F9 to return to UPA. If the Clear or F1 key is pressed, they will bypass the UPA

screen and be returned to the primary session. The F9 key may also be used to resolve duplicates from Registration and VIN scroll screens.

The F12 key will perform database updates.

COMPONENTS:     *Guest input program*
UGU1141P

*Guest output program*
UGU1142P

*Host programs*
UHU1143P, UHU1144P

*Map*
UGU1140M

*LxTable*
UGU1140T

*Copy books*
UGZCOMMY        (UGU1141P, UGU1142P)
UHZCOMMY        (UHU1143P)
UIU114AY         (UGU1141P)
UIU114BY         (UGU1141P, UGU1142P, UHU1143P)
UIU114CY         (UHU1143P, UHU1144P)
UGZ2RFLY        (UGU1142P)
UILXCNST        (UGU1141P,UGU1142P, UHU1143P)
UHUILOGY        (UHU1143P, UHU1144P)
MREYIOWK        (UHU1143P)
MREYEDIT        (UHU1143P)
MSUYTRAN        (UHU1144P)

*External name*
UPMV

*Internal name*
PA09

AVAILABLE FUNCTION KEYS:

        F1 - End session
        F2 - UMS Menu
        F3 - Limited secondary session
        F4 - Not available

F5 - Not available
F6 - Screen Hopping
F7 - Scroll backward
F8 - Scroll forward
F9 - Screen hop to UPA
    Resolves duplicates from
    Registration and VIN scroll screens
F10 - Not available
F11 - Not available
F12 - Update

# UGU1141P - GUEST INPUT

INPUT:

*Map*
UGU1140M

*Data*
Action Code (Required)
Policy Type (Required)
Insurance company number (Required)
Policy Number (Required)
Policy Effective date (Required)
Specific Plate type (Optional)
Specific Reg number (Optional)
Delete flag (Required for vehicle delete)
Vehicle ID number (Required for vehicle add)
Plate type (Required for vehicle add)
Registration number (Required for vehicle add)
Plate color (Required for vehicle add)
Vehicle effective date (Required for vehicle add or delete)
Premium town code (Optional)

PROCESS:

After initialization, the program determines from where and under what circumstances it was accessed.

If accessed for the first time, the message "PLEASE ENTER KEYS" is displayed on the screen. The user must respond by entering the requested keys. If the program is entered via screen hopping or from the "UPA" screen, the passed policy and it's covered vehicles are retrieved from the database and displayed on the screen.

If the program is entered as the result of the user pressing the Enter key, the program edits the key data fields that have been entered or

changed. If the user is adding or deleting vehicles and the vehicle update fields have changed, these fields are also edited.

The primary key data fields include the policy type, insurance company number, policy number, and policy effective date. The policy type must be "C" (commercial) or "P" (personal). The insurance company number cannot be zeroes and must be numeric. The policy number is edited as a bind number or a policy number. If the policy number field begins with a "#," it is a bind number and must be followed by 15 numeric characters. Otherwise, it is assumed to be a policy number, and the program removes any embedded spaces, left justifies the field, and edits it for alphanumeric characters. The policy effective date may be entered in several formats. For example, if the policy effective date is January 5, 1997, the user may enter it as "010597," "01051997," or "01/05/1997." This date will be displayed on the screen as "01/05/1997" when the enter key is pressed.

The optional key data fields include the specific plate type and registration number. These fields may be used on Inquiry ("I") and Delete ("D") actions. The program will display the vehicles covered by the policy beginning with the specific registration that was entered.

To be eligible for a vehicle amend, an insurance company policy must not be in "Cancel" status. There are two vehicle amend actions:

♦ Add ("A") a new vehicle to the policy
♦ Delete ("D") a vehicle currently on the policy

The data fields for an Add action include vehicle identification number (VIN), plate type, registration number, plate color, vehicle effective date, and premium town code. The data fields for a Delete action include the delete flag and vehicle effective date.

To add a vehicle, a vehicle identification number (VIN) or a plate type, registration number, and plate color must be entered and found on the database. The required vehicle effective date must be a date within the policy effective dates. If a premium town code is entered, it must be a valid town code.

To delete a vehicle, a "D" must be entered in the delete flag field. The required vehicle effective date must be within the policy effective dates and not less than the vehicle's beginning coverage date (which is initially displayed as the vehicle effective date).

OUTPUT:          If no errors are detected, the output from this program is placed in the guest-to-host block. This block is passed to UHU1143P. If an error is detected, an error message is formatted and displayed back to the user requesting further action.

MESSAGES:       300310003 - Screen hop error
411141001 - Invalid program entry
411141002 - Enter vehc
411141003 - Invalid VIN
411141004 - VEHC key required
411141005 - Invalid effective date
411141006 - Nonunique reg
411141007 - Nonunique VIN
411141008 - F12-Message
411141009 - No vehicles
411141010 - Required field missing
411141011 - Less bcov date
411141012 - No deletes
411141013 - F7 not allowed
411141014 - First page
411141015 - Last page
411141016 - F12 after update
411141017 - F9 surrogate error
411141018 - Town F12 message
411141019 - Invalid F4 surrogate
411141020 - Enter keys
411141021 - No reg add on
411141022 - Invalid insurance number
411141023 - Invalid character
411141024 - Policy missing
411141025 - Effective date missing
411141026 - Maximum pages
411141027 - Delete message
411141028 - No amends
411141029 - Empty page
411141030 - Action missing
411141031 - Policy type missing

CALLED MODULES:    None

## UHU1143P - HOST INPUT

INPUT:         Guest-to-host block from UGU1141P

PROCESS:     After initialization, the program accesses the database to retrieve the policy, policyholder, and vehicle data. This data is retrieved anytime the required key data fields are changed. If the optional key data is changed the vehicle data will be retrieved beginning with the entered specific registration.

The program obtains the policy record (MMVR-PLCY). This is performed using the policy surrogate, if it is known, or by obtaining the policy stub record (MMVR-PLCY-R) to get the policy surrogate. The policy owner type code is evaluated and for a value of "1" the MMVR-PERS is obtained otherwise the MMVR-NOWN record is obtained.

The policy's status is converted to a meaningful four character representation and the policy's status and effective dates are moved to the host-to-guest block. The policyholder name is also moved to the host-to-guest block. If no policyholder was indicated on the policy record, then "POLICY OWNER HAS NO LICENSE" is moved to the name field.

The program obtains the policy's vehicle registration records (MMVR-PLCY-VEHR) and determines the ones to display based on their status and the policy's status. For cancelled policies, only the MMVR-PLCY-VEHR records with a status of "Pending Revocation," "Revoked," or "Never Insured" are selected. For expired policies, only the MMVR-PLCY-VEHR records with a status of "Currently Insured" or "Had Insurance" are selected. For active and advance policies, only the MMVR-PLCY-VEHR records with a status of "Will Insure" or "Currently Insured" are selected. Once selected, the vehicle registration surrogate is used to obtain the vehicle registration record (MMVR-VEHR). Once the vehicle registration record is obtained, the vehicle owner record, MMVR-PERS or MMVR-NOWN, is obtained. Finally, the vehicle record (MMVR-VEHC) and vehicle model record (MMVR-VMOD) are obtained.

If the action code is an update ("A" or "D"), a call is made to UICALLST to verify that the clerk has security to update policies. A second and third call is then made to make sure the clerk has update authority and is only updating his/her own policies. If the clerk has the proper security, the program verifies that the requested action can be performed on the policy.

For vehicle adds or deletes, the policy must not be in "Cancel" status. If the policy is not cancelled, the user will be allowed to

add vehicles or delete any existing vehicles. The user is allowed to add 12 vehicles at a time. Once the 12 vehicles have been added to the database, pressing F8 will allow the addition of 12 more. When the user adds vehicles to a policy, he/she will key the registrations and/or VINs. Whenever a registration is keyed, it will be used as the key for the database retrieval, even if the user also keyed in a VIN.

For each added vehicle retrieved from the database, the program moves the vehicle information to the host-to-guest block. If an error occurred on a detail line, that detail line's status flag is set to indicate what error occurred. The appropriate message will then be displayed.

After the data for the vehicles to be added or deleted has been verified and the user has pressed F12, the data is moved to the host block and is passed to the Host Output module (UHU1144P). Upon returning from the Host Output module, an error flag is checked. If an error occurred, the appropriate message is sent. Otherwise, a message stating that the database updates have been completed is sent.

OUTPUT:     The updated information is moved to the host-to-guest block and control is passed to the Guest Output module (UGU1142P).

MESSAGES:     None

CALLED MODULES:     UHU1144P (Host Output module)
MRESPLT1 (Plate Editor module)
UICALLST (For logging database errors and checking clerk security)

DATA BASE RECORDS:     *Obtained*
MMVR-NOWN
MMVR-PERS
MMVR-PLCY
MMVR-PLCY-R
MMVR-PLCY-VEHR
MMVR-VEHC
MMVR-VEHR
MMVR-VMOD

*Stored*
None

*Modified*

None

*Erased*
None

## UHU1144P - HOST OUTPUT

INPUT:              Host block from UHU1143P

PROCESS:            After initialization, fields passed from the host input program are
                    verified for reasonability to ensure the validity of the data.  If the
                    reasonability edits are passed, the program obtains the policy
                    record (MMVR-PLCY) using the policy surrogate in the host
                    block.  Once obtained, the program compares the "Enqueue
                    Count" on the policy record to that in the host block, which
                    represents the policy as it appeared when it was initially obtained.
                    If they are not equal, then the policy has been updated since the
                    initial inquiry and the user must re-inquire on the policy before
                    updating.

                    For vehicle adds, an MMVR-PLCY-VEHR record is stored.  On
                    this record, the add vehicle effective date is moved to the policy
                    vehicle beginning coverage date and the policy expiration date is
                    moved to the policy vehicle ending coverage date.  The amend
                    reason code and premium town code are also moved.  If the
                    premium town code was entered, the LxTable will convert it to an
                    RMV town code and that will be moved.  Otherwise, the town
                    code from the corresponding MMVR-VEHR record is moved.  In
                    addition, the status code on the MMVR-PLCY-VEHR record is
                    updated based on the add vehicle effective date.  The status code
                    "Will Insure" is moved if the add vehicle effective date is greater
                    than the current date.  Otherwise, the status code "Currently
                    Insured" is moved.  If the insurance company code (ICO) on the
                    MMVR-VEHR record differs from the policy ICO, and the
                    applicable MMVR-PLCY-VEHR's record status code is not "Will
                    Insure," the MMVR-VEHR ICO is modified to reflect the policy
                    ICO.  A MMVR-PLCY-HIST record is also stored with a policy
                    code reason of "Add Vehicle."

                    If active insurance cancellation actions are found against the
                    vehicle being added, the action is rescinded.  The MMVR-ACTN
                    record is modified with a type of "Expired."  The MMVR-INCD-
                    OFNS-R is modified to an expired incident type.  The MMVR-
                    PLCY-VEHR record is modified to reflect the vehicle "Had

Insurance" in the past.  MMVR-EXPA, MMVR-INCD-OFNS-R, and MMVR-NCSH records are built and stored.  The MMVR-NCSH record will trigger the printing of a UR1 in the batch cycle.

For vehicle deletes, the MMVR-PLCY-VEHR record is modified.  If the status code on the MMVR-PLCY-VEHR is "Will Insure" and the delete vehicle effective date is equal to the policy vehicle beginning coverage date, the status is changed to "Never Insured." If the delete vehicle effective date is equal or less than the current date, the status is changed to "Had Insurance."  The policy vehicle ending coverage date is updated with the delete vehicle effective date.  The policy vehicle reason code is updated with the amend reason UPA4.  A MMVR-PLCY-HIST record is also stored with a policy code reason of "Delete Vehicle."

OUTPUT:              If any errors are detected when the database is being updated, a rollback is performed.  A status indicator and message are placed in the host block and passed back to the Host Input program (UHU1143P).

MESSAGES:        None

CALLED MODULES:        None

DATA BASE RECORDS:   *Obtained*
                     MMVR-ACTN
                     MMVR-ACTN-ADJD
                     MMVR-INCD-OFNS-R
                     MMVR-PLCY-VEHR
                     MMVR-VEHR

                     *Stored*
                     MMVR-EXPA
                     MMVR-NCSH
                     MMVR-INCD-OFNS-R
                     MMVR-PLCY-HIST
                     MMVR-PLCY-VEHR

                     *Modified*
                     MMVR-ACTN
                     MMVR-INCD-OFNS-R
                     MMVR-PLCY-VEHR
                     MMVR-VEHR

                     *Erased*
                     None

## UGU1142P - GUEST OUTPUT

INPUT:               Guest-to-Host block from UHU1143P

PROCESS:         After initialization, the GSA-REG-FLAG is checked to see if the specific reg entered is a duplicate.  If it is a duplicate, control is passed to the Registration Scroll by Registration screen (URSR).  At this point, the user will place the cursor on the desired entry and press F9.  The selected information will be carried back to the UPMV screen.

                            If the specific reg is not a duplicate, the GSA-DUP-FLAG is checked to see if any of the entered vehicle's Registration numbers or VINs are duplicates.  If a duplicate registration is entered, control is passed to the URSR screen.  If a duplicate VIN is entered, control is passed to the Registration Scroll by VIN screen (URSV).  At this point, the user will place the cursor on the desired entry and press F9.  The selected information will be carried back to the UPMV screen.

                            The policy and policy owner surrogates are moved to the commarea so that they may be used for screen hopping.

                            The policy surrogate is moved to the first 12 lines of the commarea scroll table, so that the user can press F9 to jump to the UPA screen.  The detail line's registration, vehicle, and owner surrogates are moved to the last 12 lines of the reference scroll table, so that the user can start a secondary session using this information.

OUTPUT:         The policy, policyholder, vehicle, registration, and owner information is displayed on the screen.

MESSAGE:       None

CALLED MODULES:    None

LINKED MODULES:    UGZ0022P -   Reference manager

# 32        Policy Operator Inquiry

## UPOI Function

TITLE:                   POLICY OPERATOR INQUIRY

DESCRIPTION:      The UPOI screen is used to request operator information by operator license or FID number and policy effective date. The required fields are insurance company code, vehicle number, effective date, and operator license or FID number.

                            If the policy number is entered, then the coverage code and market indicator are required. If the license state is not entered, the default is 'MA.' If more than one operator is entered, then at least one of the operators must be marked as the policy holder.

                            The user has the option to start a second session by changing the function code and pressing F3. The information on the screen is carried over to the requested screen. If F3 is pressed again, the user is returned back to the UPOI screen. By using the secondary session, the user can be doing two functions at once.

                            When a tape of a new UMS release is sent to the insurance companies, the companies are given 60 days to make changes to the guest software and maps to make the applications more suitable to their individual business needs. For this reason, it is necessary to maintain two versions of the software. During those 60 days, the old, unchanged version of UPOI may be accessed by entering function code "TPOI," while function code "UPOI" will execute the recently modified modules. After the 60-day period, TPOI will no longer be available.

                            Note: A typical use of this screen would be to inquire on the operators that are going to be added to a new policy.

COMPONENTS:     *Guest input program*
UGU3011P

                            *Guest output program*
UGU3012P

*Host program(s)*
UHU3013P
UHU3014P

*Map*
UGU2010M

*Copy books*

| | |
|---|---|
| UGZCOMMY | (ALL) |
| UHUILOGY | (UHU3014P) |
| UHZSTATC | (UHU3014P) |
| MREYIOWK | (UGU3012P) |
| UIU3010Y | (ALL) |
| UGZ2RFLY | (UGU3012P) |
| MREYIOMW | (UGU3012P) |
| UGU3POIY | (UGU3011P) |
| MREYIORC | (UHU3014P) |
| UHU3DIPY | (UHU3014P) |

*External name*
UPOI

*Internal name*
UU25

AVAILABLE FUNCTION KEYS:

F1  - End session
F2  - UMS Menu
F3  - Limited secondary session (requires function change)
F4  - Not available
F5  - Not available
F6  - Not available
F7  - Not available
F8  - Not available
F9  - Duplicate resolution from license or FID scroll screens
F10 - Not available
F11 - Not available
F12 - Not available

## UGU3011P - GUEST INPUT

INPUT:                *Map*

UGU3010M

*Data*
Policy Type Code (required)
Insurance company number (required)
Insurance policy number (required)
Renew Indicator (optional)
Years Experience (optional)
Incident Indicator (optional)
Operator license/FID ind (required)
Operator license/FID number (required)
Operator license state (optional)
Policy holder indicator (optional)
Expiration date (optional)
Effective date (required)

PROCESS:    After initialization, the program determines from where and under what circumstances it was accessed.

The program checks if any of the keys on the screen have changed. If any keys changed, they are edited for valid content. A check is performed to insure no licenses or FIDs are entered more than once. If a duplicate is detected by this program, an error message is displayed.

If more than one license or FID number is entered, at least one has to be marked as the policy holder. If the expiration date is not entered, the program calculates the expiration date to be one year after the effective date (ie. An effective date of 7/1/97 would have an expiration date of 7/1/98).

When enter is pressed, the program checks if the duplicate indicator is set in the common area. If a duplicate license or FID was found during the host processing, a message is displayed and the user must press enter to resolve the duplicate. Control is transferred to the protocol processor when a duplicate license or FID needs to be resolved by using function code LN for Massachusetts license duplicates, LNO for out-of-state license duplicates, and RNF for duplicate FIDs.

The program performs compression on the detail lines. If a license/FID is entered on line 1 and a different license/FID is entered on line 3 with a blank entry in the middle, then line 3 is moved into line 2 and line 3 is blanked out. This insures that no blank lines are sent to the host programs for processing.

If the next update transaction field is unprotected, a successful inquiry was completed for the listed operators/FIDs. When a 'C' is entered in this field, and no other key fields are changed, control is passed to the UPIC Guest Input program. This enables a change of carrier to be done for the operator/FID marked as the policy holder. All error messages must be resolved before the user is allowed to perform a change of carrier.

OUTPUT:        If no errors exist, the information entered on the screen is moved to the common area. Control is passed to the Host Input program (UHU3013P). If there are any errors detected by this program, an error message is displayed for further action.

MESSAGES:      412001001 - BAD CALL TO DATE CONVERTER
412001002 - NO SURROGATE FOR F9
412001004 - PLEASE ENTER REQUIRED KEYS
412001008 - POLICY NUMBER CONTAINS INVALID
                    CHARACTERS
412001009 - KEY PRESSED IS INVALID
412001010 - DUP LICENSE NUMBER KEYED
412001011 - EXPIRE DATE INVALID
412001012 - EFFECTIVE DATE INVALID
412001013 - REQUIRED FIELD MISSING, PLEASE ENTER
412001014 - AT LEAST ONE OPERATOR IS REQUIRED
412001015 - POLICY HOLDER MUST BE INDICATED
412001027 - F9 DUP ONLY
412001028 - INSURANCE COMPANY NUMBER INVALID,
                    PLEASE RE-ENTER
412001029 - VEHICLE NUMBER INVALID, PLEASE RE-
                    ENTER
412001003 - ENTRY NOT VALID
412001039 - ONLY ONE PH
412001042 - COMM POLICY EFF DATE INVALID

## UHU3013P - HOST INPUT

INPUT:           Common Area from UGU3011P

PROCESS:      After initialization, a call is performed to 'UICALLST' to confirm that the insurance company has security to view information. If the insurance company does not have the needed security, an error number is moved to the common area and control is passed to the Guest Output program (UGU3012P).

If the license number is an out of state license, the MMVR-UNOP record is obtained and the PERS-NUMB-SURR of MMVR-UNOP is moved to the common area. The next MMVR-UNOP is obtained to check if a duplicate exists. If a duplicate is present, the license is flagged as a duplicate in the common area.

When the license number is a 'MA' license, the MMVR-PERS-R record is obtained and the PERS-NUMB-SURR of MMVR-PERS-R is moved to the common area. The next MMVR-PERS-R record is obtained to check if a duplicate exists. If one is found, the license is flagged as a duplicate in the common area.

For FID numbers, the MMVR-NOWN-FID-R record is obtained and the NOWN-NUMB-SURR of MMVR-NOWN-FID-R is moved to the common area. The next MMVR-NOWN-FID-R is obtained to check if a duplicate exists. If one is found, the FID is flagged as a duplicate in the common area.

OUTPUT:         The output from UHU3013P is the person surrogate for each license or the nown surrogate for each FID.

MESSAGES:       412001016 - A record matching entered keys was not found
412001017 - Database error
412001032 - Signon not authorized for ins co inquiry
412001041 - Record not found
412001042 - Database error
412001050 - Invalid character entered
412001051 - Exp date invalid
412001052 - Eff date invalid
412001053 - Eff date missing
412001054 - License FID required
412001055 - Phone number required
412001056 - Insurance number invalid
412001057 - Only one phone
412001058 - Commercial policy effective date invalid
412001059 - Missing policy type value
412001060 - Invalid state for license
412001061 - Enter expiration date
412001062 - May not use reserved FID
412001063 - Bad effective date conversion (gregorian)
412001064 - Bad current date conversion
412001065 - Bad effective date conversion (julian)
412001066 - Bad comparison date conversion

CALLED MODULES:     UICALLST (For verifying confidential registrations and security)

## UHU3014P - HOST OUTPUT

INPUT:              Common Area from UHU3013P

PROCESS:            After initialization, the program determines if a surrogate is present and obtains the owner information for the PERS (person) or NOWN (FID).

The person record (MMVR-PERS) is obtained for the name and date of birth (DOB) data. Next, the MMVR-PERH record is obtained to check if the license is a Mass/liquor ID. If the license is a Mass/liquor ID, an indicator is set in the common area so the Guest Output program (UGU3012P) will display an informational message.

The non-individual record (MMVR-NOWN) is obtained for the name information.

Next, the person and nown surrogates are compared against each other to determine if a duplicate exists. An indicator is set in the common area when duplicates are found.

If no errors have been encountered, a link is performed to the license status module to retrieve the license status for any licenses. Another link is performed to the SDIP module to obtain SDIP (Safe Drivers Insurance Points) for each license, but not each FID.

OUTPUT:            The output from this program is the requested person and license information or non-individual and non-individual information which is then passed to the Guest Output program (UGU3012P) for display back to the user.

MESSAGES:          412001001 - Bad date conversion
                   412001005 - Database error
                   412001032 - Signon not authorized for ins co inquiry
                   412001037 - Years expired invalid
                   430140001 - Bad link service module 1
                   430140002 - Bad link service module 3
                   430140003 - Bad link logging module

CALLED MODULES:        UICALLST (For logging database errors)
                       MRMSADDR (For obtaining the address of the MMVR-
                              PERS record when calculating license
                              status)

LINKED MODULES:    UHU301CP -  SDIP
                   UHL0055P -  License Status Module

DATA BASE RECORDS OBTAINED:    MMVR-VTAB
                               MMVR-INCD-OFNS-R
                               MMVR-AUTI
                               MMVR-CITA
                               MMVR-IVIO
                               MMVR-PLCY
                               MMVR-PERS
                               MMVR-PERH
                               MMVR-NOWN

DATA BASE RECORDS STORED:    None

DATA BASE RECORDS MODIFIED:    None

DATA BASE RECORDS ERASED:    None


## UGU3012P - GUEST OUTPUT

INPUT:    Input to this program is license and person information or nown and FID information retrieved by the host programs.  If an error occurs during processing, the error number is returned in the common area.

PROCESS:    After initialization, the program determines which information or error messages need to be displayed first.  The errors are displayed top to bottom.  This means if errors exist on line 2 and line 3, both will be highlighted, but the first error message corresponding to line 2 will be displayed.

A link is performed to the reference manager program to add or delete person and nown surrogates needed for the secondary session.

OUTPUT:    Output from this program is person information, license status, 34J points, unpaid premium, SDIP points, and comp points or non-individual name information.  Error and informational messages are also displayed.

MESSAGES:    412001018 - INQUIRY PROCESS COMPLETE
             412001016 - A RECORD MATCHING ENTERED KEY(S) WAS

NOT FOUND
412001025 - DUPLICATES EXIST PRESS ENTER TO
RESOLVE
412001026 - DUP LICENSE NUMBER KEYED, PLEASE
CORRECT
412001030 - OUT OF STATE LIC # NOT FOUND PROCEED
WITH UPDATE
412001031 - MASS/LIQUOR ID FOUND - PROCEED WITH
UPDATE
412001033 - OUT OF STATE LIC # DUPLICATES FOUND
2001040    - DUPLICATE FID FOUND
2001041    - FID NOT FOUND

CALLED MODULES:      None

LINKED MODULES:      Reference Manager (UGZ0022P)

# 33     Policy Transaction History

## UPTH Function

TITLE: POLICY TRANSACTION HISTORY INQUIRY

DESCRIPTION: The UPTH function is used to display policy history information for a policy. To use this screen, the insurance company number, policy number, and policy effective date must be entered. Also, a "C" (Commercial) or "P" (Private) needs to be added to the POL TYPE field.

The detail lines on this screen represent each policy history entry recorded for a policy and will be in ascending transaction date order. Multiple pages may be displayed by using the standard F7 and F8 for page backward and forward.

This screen can "hop" to UPA, UPMV, or UPH by changing the function code to the desired screen and pressing the F6 key.

When a tape of a new UMS release is sent to insurance companies, they have 60 days to make changes to the guest software and maps to make the applications more suitable to their individual business needs. For this reason, it is necessary to maintain two versions of the software. During these 60 days, the old version of UPTH may be accessed by entering the function code "TPTH," while the function code "UPTH" will execute the recently modified modules. After the 60-day period, TPTH will no longer be available.

NOTE: A typical use of the UPTH screen would be to find detailed policy history information related to a particular policy.

COMPONENTS: *Guest input program*
UGU2131P

*Guest output program*
UGU2132P

*Host program(s)*
UHU2133P

*Lr*
UHU1133L

*Map*
UGU1130M

*Lx table*
UGU1130T

*Copy books*
| | |
|---|---|
| UGZCOMMY | (UGU2131P,UGU2132P) |
| UHZCOMMY | (UHU2133P) |
| UGU213AY | (UGU2131P,UGU2132P) |
| UGU213BY | (UGU2131P) |
| UIU213CY | (UGU2132P,UHU2133P) |
| UHUILOGY | (UHU2133P) |
| MREYIORC | (UHU2133P) |

*External name*
UPTH

*Internal name*
UU26

AVAILABLE FUNCTION KEYS:

F1  - End session
F2  - UMS Menu
F3  - Not available
F4  - Not available
F5  - Not available
F6  - Screen hopping
F7  - Page backward
F8  - Page forward
F9  - Not available
F10 - Not available
F11 - Not available
F12 - Not available

NOTE:  F6 requires function change

## UGU2131P - GUEST INPUT

INPUT:  *Map*
UGU2130M

*Data*
Insurance Company Number (Required)
Policy Number (Required)
Policy Effective Date (Required)

PROCESS:  If the program is being accessed for the first time, a blank screen with the message "Please enter keys" is displayed on the screen. The user must respond by entering the required key data fields.

When the enter key is pressed, the insurance company number, policy number, and policy effective date are edited. The insurance company number cannot be zeroes and the policy effective date must be entered. The data in the policy field is edited as a bind number or a policy number. If the data entered in the policy number field begins with a "#", it is a bind number and must be followed by 15 numeric characters. Otherwise, it is assumed to be a policy number, and the program removes any imbedded spaces, left justifies the field and edits for alphanumeric characters.

If no errors are found, the key fields are moved to a part of the common area, called the guest-to-host block, that is sent to the Host Retrieval program (UHU2133P). Also, the internal name UU26 is moved to the guest-to-host block.

If this program is entered because the F6 key was pressed, the policy surrogate from the common area is moved to the guest-to-host block. If the user pressed F7/F8 for paging, the appropriate database key for the next detail is moved from the common area to the guest-to-host block for the Host Retrieval program to process.

OUTPUT:  If no errors are detected, the output from this program is placed in the guest-to-host block and passed to UHU2133P. If an error is detected, an error message is moved to the common area and control is transferred to the Guest Output program (UGU2132P).

MESSAGES:  415001001 - Entry not valid
415001002 - Enter required fields
415001003 - Policy number contains invalid characters
415001004 - Policy number missing or invalid
415001005 - Insurance company number invalid
415001006 - Policy effective date missing

415001007 - F7 is not valid
415001008 - No surrogate for F4
415001009 - End of set - no more records
415001010 - Policy type missing

CALLED MODULES:  None


## UHU2133P - HOST RETRIEVAL

INPUT:    Guest-to-host block from UGU2131P

PROCESS:   The program first determines whether a new key has been sent by examining the key pressed. If enter, F4, or F9 have been pressed, the key will be new and the policy record will be obtained. This is performed using the policy surrogate, if it is known, or the policy stub record (MMVR-PLCY-R) to get the policy surrogate. Also, at this time the person record (MMVR-PERS) will be obtained. Based on indicators from the person record, the address record (MMVR-ADDR) and the unknown owner record (MMVR-UNOP) may also be retrieved. The policy and person information is moved to the host-to-guest block to be sent to the Guest Output program (UGU2132P).

      The program then obtains policy history records (MMVR-PLCY-HIST) until the first page is full or no more history records are found. The policy history information is also moved to the host-to-guest block to be sent to the Guest Output program.

      The Host Retrieval program also converts the policy status code and reason code to meaningful character representations. The policy status code conversion is determined using the policy status code, policy effective date, policy expiration date, and the current date. The reason code is converted based on its value. The converted values are moved to the host-to-guest block.

      To page forward, the user presses F8; to page backward the user presses F7. The database key for each history detail is saved for use in paging. When F7/F8 are pressed, the database key is used to obtain the next or previous history record and history records will be retrieved until the page is full or no more records are available for retrieval. The new history detail information is moved to the host-to-guest block.

OUTPUT:             The policy history information is moved to the host-to-guest block when no errors exist.  Otherwise, an error code is moved to the common area.  Control is passed to the Guest Output program (UGU2132P).

MESSAGES:           421330001 - Bad link
                    415001020 - LR error - work-plcy-request invalid
                    415001021 - A record matching entered keys was not found
                    415001022 - LR error
                    415001023 - No history records found for policy
                    415001024 - LR error using dbkey

CALLED MODULES:     None

LINKED MODULES:     None

DATA BASE RECORDS:  *Obtained*
                    MMVR-ADDR
                    MMVR-PERS
                    MMVR-NOWN
                    MMVR-PLCY
                    MMVR-PLCY-R
                    MMVR-PLCY-HIST
                    MMVR-UNOP

                    *Stored*
                    None

                    *Modified*
                    None

                    *Erased*
                    None


## UGU2132P - GUEST OUTPUT


INPUT:              Host-to-guest block from UHU2133P containing the history information for the policy or any error messages generated by the Guest Input or the Host Retrieval programs.

PROCESS:            The information in the host-to-guest block is moved to the common area and displayed on the screen.  If no errors occurred during host processing, a page table is maintained with database keys for the first and last entry on each page.  The next time the F7

or F8 key is pressed, the appropriate database key is moved from the page table to the common area.  Also, the policy and person surrogates are moved to the common area so that they may be used for screen hopping.

OUTPUT:         If no errors occurred, the policy information is displayed on the screen.  Otherwise, the error message is displayed.

MESSAGES:       415001009 - No more records
                415001015 - F8 For more records

CALLED MODULES:     None

LINKED MODULES:     None

# 34

# Non-Individual Name Inquiry

## URN Function

TITLE:                  NON-INDIVIDUAL (COMPANY/CORPORATE) NAME
                        INQUIRY

DESCRIPTION:   The URN function is used to request license or registration
                        information by company/corporation name.  The key fields are
                        company name, active plates indicator, exact company name match
                        indicator, and company only indicator.  Only the company name is
                        required, and this entry may be as short as one character (for
                        example, locate all companies whose name begins with a particular
                        letter).  The active plates indicator, exact company name match
                        indicator, and company only indicator are Y (yes) or N (no) fields.
                        The system default is N.  To activate these fields, the operator must
                        type Y in the indicator field.

                        If the active plates indicator is entered as a Y, only active plate
                        numbers are displayed for the requested company name; otherwise,
                        all plate numbers for the requested company are selected (active,
                        expired, revoked).

                        If the exact company name match indicator is entered as a Y, all
                        characters entered in the company name field are used as a search
                        argument; otherwise, only the first twenty characters are used.

                        If the company only indicator is entered as a Y, only the company
                        name and address displays on the screen; registration information
                        is suppressed.

COMPONENTS:    *Guest input program*
                        UGR0010P

                        *Guest output program*
                        UGR0011P

                        *Host program(s)*
                        UHR0010P

*Map*
UGR0010M

*Copy books*
| UGZCOMMC | (UGR0010P, UGR0011P) |
|---|---|
| DFHATTRB | (UGR0010P) |
| DFHAID | (UGR0010P) |
| UHZCOMMC | (UHR0010P) |
| IDMS LR UHR0010L-LR | (UHR0010P) |
| IDMS SUBSCHEMA BINDS | (UHR0010P) |

*External name*
URN

*Internal name*
RN01

AVAILABLE FUNCTION KEYS:

    F1  - End session
    F2  - UMS Menu
    F3  - Not available
    F4  - Select from scroll screen
    F5  - Not available
    F6  - Not available
    F7  - Page backward
    F8  - Page forward
    F9  - Not available
    F10 - Not available
    F11 - Rescroll
    F12 - Not available

    NOTE: F4 requires function change

## UGR0010P - INPUT SCREEN HANDLER

INPUT:               *Map*
                        UGR0010M

                        *Data*
                        Company/Corporate Name (Required)
                        Active Plates Indicator (Optional)
                        Exact match Indicator (Optional)
                        Company/Corporate Only Indicator (Optional)

PROCESS:     After initialization, the program determines the location and purpose of it being accessed.

If access is from a first time call, the message PLEASE ENTER CORP/CO NAME is displayed back to the user screen for input entry.

If access is via a normal request for company name information, the company name (as well as the active plate indicator, the exact match on company name indicator, and the company name only indicator) are validated through a program called UICALLST. If input validation detects any errors or omissions in the input data, one of the following messages displays back to the user screen:

- ♦ PLEASE ENTER CORP/CO NAME
- ♦ ENTER Y OR N FOR ACTIVE PLATE
- ♦ ENTER Y OR N ON EXACT CORP/CO MATCH
- ♦ ENTER Y OR N FOR CORP/CO ONLY

At this point, the operator can make the necessary correction(s) and reenter the request. If all screen input is valid, the necessary controls and keys are established and control is passed to UHR0010P for retrieval of the requested information.

If access is from F7 (request to scroll backward) and no previous inquiry has been made, the message: F7 INVALID - INQUIRY MUST BE DONE FIRST is displayed back to the user screen. If the screen is currently on the first page, the message F7 INVALID - NO PREV SCREEN ENCOUNTERED is displayed back to the user screen. Otherwise, the screen is scrolled backward one page and returned to the user.

If access is from F8 (request to scroll forward) and no previous inquiry has been made, the message F8 INVALID - INQUIRY MUST BE DONE FIRST is displayed back to the user screen. If the screen is currently on the last page, the message F8 INVALID - END OF SET ENCOUNTERED is displayed back to the user screen. If the request is for a partial page scroll (from cursor positioning) and the cursor is positioned improperly, the message F8 INVALID -IMPROPER CURSOR POSITIONING is displayed back to the user. Otherwise, the screen is scrolled forward as requested (either full or partial page) and returned to the user.

If access is from F11 (rescroll from an alternate function), the screen returns to the user at the position it occupied when the alternate function was accessed.

OUTPUT:    If no errors are detected in UGR0010P, the output consists of controls and keys that are established in the common area for use by the host program.  If an error is detected, the output consists of a message displayed back to the user requesting further action.

MESSAGES:    203001001 - Please enter CORP/CO name
203001002 - No records for this key on database
203001003 - Enter Y or N for active plate
203001004 - Enter Y or N on exact CORP/CO match
203001005 - Enter Y or N for CORP/CO only
203001007 - F8 Invalid - inquiry must be done first
203001008 - F7 Invalid - no prev screen encountered
203001010 - F8 Invalid - improper cursor positioning
203001011 - F8 Invalid - end of set encountered

CALLED MODULES:    UICALLST (call input editing routines)


# UHR0010P - COMPANY/CORPORATE NAME RETRIEVAL

INPUT:    Controls and Keys from UGR0010P

PROCESS:    After initialization, the program reads the database to obtain the requested company information.  The search is made on Company Name/Active Plate Indicator/Exact Match on Company Name Indicator/Company Only Indicator (as requested by the screen operator).  If no data can be located for the requested key, the message  NO RECORDS FOR THIS KEY ON DATA BASE is displayed back to the user.  Otherwise, the successfully retrieved data is passed to UGR0011P for output formatting.

OUTPUT:    If the requested information is successfully located, the output is the requested company name information, which is passed to UGR0011P for display to the user.  If the requested information cannot be found, the output is the error message:

NO RECORDS FOR THIS KEY ON DATA BASE.

MESSAGES:    203001002 - No records for this key on database

CALLED MODULES:    UHR011P (checks for exact match on name)

## UGR0011P - OUTPUT SCREEN HANDLER

INPUT:             Company name information retrieved by UHR0010P, or any error
                   messages produced by the Input Screen Handler or host program
                   and passed to this program for display.

PROCESS:           After initialization, the program formats the screen and displays it
                   back to the user.

                   If the returned screen contains all of the requested data, the user
                   receives the message END OF SET ENCOUNTERED.

                   If the retrieval gathered more information than will fit on one
                   screen, the user receives the message ENTER F8 TO BEGIN
                   SCROLL.  As each subsequent screen is returned, the user receives
                   the message ENTER F8 TO CONTINUE TO SCROLL
                   FORWARD until the retrieved information is exhausted.

                   You can use F8 until all the requested information has been
                   displayed.  At that time, the message END OF SET
                   ENCOUNTERED is displayed on the user screen.

                   The message MAXIMUM NUMBER OF READS - PRESS F8 TO
                   CONTINUE indicates that 300 I/O operations were performed
                   without encountering a hit.  The returned screen is blank except for
                   the above message.  The use of F8 initiates additional I/O.

OUTPUT:            *Map*
                   UGR0010M

                   *Data*
                   A formatted screen returned to the user.  If the screen is unfilled,
                   the user receives an associated message indicating either that no
                   data exists for this request (END OF SET ENCOUNTERED) or
                   that more I/O is required to complete the search (MAXIMUM
                   NUMBER OF READS - PRESS F8 TO CONTINUE).  If the
                   screen is filled, the associated message indicates that this screen
                   contains all the retrieved data (END OF SET ENCOUNTERED)
                   or that there is additional data to view (ENTER F8 TO BEGIN
                   SCROLL).

                   NOTE: All error messages for this function, including those
                   created by previous programs (and documented therein) actually

appear on this output screen.  Therefore, they are all part of the output from this program.

MESSAGES:         203001006 - End of set encountered
203001012 - Enter F8 to begin scroll
203001013 - Enter F8 to continue to scroll forward
203001014 - Maximum number of reads - press F8 to continue

CALLED MODULES:    None

# 35  Registration Name-Search

## URSN Function

TITLE:              Registration/VIN  Scroll/Name

DESCRIPTION:        The URSN function is used to request and display a list of vehicle registrations or vehicle VINs by name.  The key fields (fields to be entered) are last name, first name, middle name, date of birth, or registration status.  The last name is the only required field, and this entry may be as short as one character.  The first name, middle name, date of birth, and registration status are optional but may be used to narrow the search.  In addition to the key fields, the VIN display field determines whether vehicle registration or VIN information will be displayed.

Note: A typical use of this screen would be to find the registration of an individual when only a name or part of a name is available.

COMPONENTS:         *Guest input program*
UGR1091P

*Guest output program*
UGR1092P

*Host program*
UHR1093P

*Map*
UGR1090M

*Copy books*
UGZCOMMY          (ALL)
UGR1O90Y          (UGR1091P, UGR1092P)
UHUILOGY          (UHR1093P)
UIR1090Y          (UGR1092P, UHR1093P)
UIR1RSNY          (UGR1091P)

*External name*
URSN, TRSN

*Internal name*
UR07

AVAILABLE FUNCTION KEYS:

F1  - End session
F2  - UMS Menu
F3  - Not available
F4  - Select from scroll screen (requires function change)
F5  - Not available
F6  - Not available
F7  - Page backward
F8  - Page forward
F9  - Select from scroll screen (requires function change)
F10 - Not available
F11 - Rescroll
F12 - Not available

# UGR1091P - GUEST INPUT

INPUT:           *Map*
UGR1090M

*Data*
Last name (required)
First name (optional)
Middle name (optional)
Date of birth (optional)
Registration status (optional)
VIN display (optional)

PROCESS:      Upon entry, the program determines the circumstances under
which it was accessed.  If the enter key was pressed, all of the key
data fields are checked.  If any keys have been entered or changed,
then all the keys are edited.  Any of the following errors may be
detected during editing:

♦ LAST NAME REQUIRED
♦ FIRST NAME REQUIRED IF MIDDLE NAME
   KEYED
♦ FIRST/MIDDLE REQUIRED IF DATE OF BIRTH
   KEYED

♦ FIRST CHARACTER OF NAME CAN NOT BE A
SPACE
♦ EMBEDDED SPACE IN NAME NOT ALLOWED
♦ REGISTRATION STATUS KEYED IS INVALID

When an error is found, its corresponding error number is moved
to the common area. If a "Y" is entered in the VIN display field,
VIN information is displayed for the owners. If VIN display is left
blank or any other value is entered, registration information is
displayed.

If the F7 key was pressed, the first entry from the previous page in
the page table is moved to the common area. If the user changed
any of the keys on the screen and pressed F7, the key change is
ignored. If the first page of data is currently being displayed and
the F7 key is pressed, an error number is moved to the common
area.

If the F8 key was pressed, the bottom entry of the current page in
the page table is moved to the common area. If the user changed
any of the keys on the screen and pressed F8, the key change is
ignored. If there is no more data to display, an error number is
moved to the common area.

If the program is entered because the F11 key was pressed on
another screen to rescroll back to URSN, the key data from the
common area is moved to the common area.

If the program is entered for the first time, the common area and
the page table are initialized. When the URSN screen is displayed
for the first time, the page number is zero, and a message is
displayed to the user to enter data for the search.

The user may scroll by full or partial page. If the user places the
cursor on a detail line and presses F8 (or F7), that detail line will
become the first line (or last line) on the next (or previous) page.
This program maintains a page table for every line displayed on
the screen. Each screen is a "page" in the page table. This
accommodates partial paging.

OUTPUT:     If no errors are detected during processing, control is transferred to
the Host Retrieval program (UHR1093P). Otherwise, control is
transferred to the Guest Output program (UGR1092P) to display
the error message.

MESSAGES:   313001001 -   END OF SET ENCOUNTERED NO MORE

RECORDS
313001003 -   STATUS KEYED INVALID
313001004 -   ENTRY NOT VALID
313001005 -   PLEASE ENTER KEYS
313001006 -   LAST NAME IS REQUIRED
313001007 -   NAME MUST BE ALPHABETIC
313001008 -   FIRST NAME IS REQUIRED IF MIDDLE NAME
              IS KEYED
313001009 -   FIRST/MIDDLE NAME REQUIRED IF DATE OF
              BIRTH IS KEYED
313001010 -   ENTER VALID WITH KEY CHANGE ONLY
313001011 -   FIRST CHARACTER OF NAME CAN NOT BE A
              SPACE
313001012 -   EMBEDDED SPACE IN NAME NOT ALLOWED
313001002 -   BEGINNING OF SET ENCOUNTERED - NO
              MORE RECORDS

## UHR1093P - HOST RETRIEVAL

INPUT:          Either the information keyed on the screen (last name, first name, middle name, date of birth, and registration status) or the person surrogate (PERS-NUMB-SURR) is passed to this program.

PROCESS:        If the person surrogate is present, it is moved to the person record (MMVR-PERS).  Otherwise, the name information is moved to the person record.

                Information for the detail lines is obtained two different ways.  The first is when the first vehicle registration record is being obtained for a person.  The other way is when subsequent vehicle registrations are being obtained.

                If the first vehicle registration record is needed for a person, the person record is obtained using the name or person surrogate as the key.  If a vehicle registration record (MMVR-VEHR) exists for this person, it is obtained using the vehicle registration surrogate (VEHR-NUMB-SURR) from the person record.  If a vehicle record (MMVR-VEHC) exists for this registration, it is obtained using the vehicle surrogate (VEHC-NUMB-SURR) from the vehicle registration record.

                If subsequent vehicle registration records exists for a person, the name information is used from the person record already obtained.  The person/ vehicle registration record (MMVR-PERS-VEHR) is

obtained using the person surrogate.   The vehicle registration record is obtained using the vehicle registration surrogate from the person/vehicle registration record.  If a vehicle record exists for this registration, it is obtained using the vehicle surrogate from the vehicle registration record.

If the Date of Birth (DOB) does not match the DOB on the person record or the primary status does not match the status entered by the user, the person record is bypassed, and the next one is obtained.

A call is performed to 'UICALLST' to determine if the registration is confidential.  If so, the person record is bypassed and the next one is obtained.

Key information about each detail line is moved to the page table in the common area.

For each detail line, incident/offense records (MMVR-INCD-OFNS-R) that point to active actions (MMVR-ACTN) are obtained.  The effective date on the action record must be less than the current date and the type of action must be suspended or revoked.  If an action record that meets the above criteria is not found, a canceled registration record (MMVR-CREG) is obtained for the other registration status types.  Information obtained from these records is used to create a registration status.  Valid status codes for this screen are: "ACTV," "EXPI," "SWAP," "CA19," "CAPR," "SUSP," "REVO," "INAC," blanks, and low values.

OUTPUT:  Person information, vehicle registration information or VIN information, and the page table are moved to the common area. Control is transferred to the Guest Output program (UGR1092P).

MESSAGES:  313001020 -  NO RECORD FOR THIS KEY ON DATA BASE
313001021 -  LOGICAL RECORD ERROR
313001022 -  IDMS ERROR
313001023 -  DATA BASE ERROR

CALLED MODULES:  UICALLST (For verifying confidential registrations)

DATA BASE RECORDS OBTAINED:  MMVR-VEHR
MMVR-VEHC
MMVR-VMOD
MMVR-PERS
MMVR-NOWN
MMVR-VEHT

MMVR-CREG
MMVR-INCD-OFNS-R
MMVR-ACTN
MMVR-PERS-VEHR

DATA BASE RECORDS STORED:          None

DATA BASE RECORDS MODIFIED:        None

DATA BASE RECORDS ERASED:          None


## UGR1092P - GUEST OUTPUT

INPUT:            Registration/VIN and person information retrieved by the Host
                  Retrieval program, or any error message generated by the Guest
                  Input program or the Host Retrieval program.

PROCESS:          After initialization, the program formats the screen from the
                  information in the common area.

                  If the current page of detail lines is less than the previous page of
                  detail lines, the extra detail lines are erased.

                  The values from the common area are moved to the page table for
                  each detail line.

OUTPUT:           The registration and/or VIN and person information are formatted
                  on the screen.  An informational message is also displayed to
                  inform the user of more data available to display, or if all the data
                  has been displayed.

MESSAGES:         313001015 -  F8 FOR MORE RECORDS
                  313001016 -  END OF SET ENCOUNTERED NO MORE
                               RECORDS

CALLED MODULES:       None

# 36

# Registration Search

## URSR Function

TITLE:            REGISTRATION SCROLL/REGISTRATION

DESCRIPTION:      The URSR function is used to request and display a list of vehicle registrations by registration number.  The key fields (fields to be entered) are plate type, registration number, plate color, and registration status.  The registration number is the only required field.  This entry may be as short as 1 character (for example, to display all registrations whose registration number begins with the number 4).  The plate type, plate color, and registration status are optional but may be used to narrow the search.

NOTE: A typical use of this screen would be to find the registration of an individual if all or part of the registration number is known.

COMPONENTS:       *Guest input program*
UGRI1241P

*Guest output program*
UGR1242P

*Host program*
UHR1243P

*Map*
UGR1240M

*Copy books*
UGZCOMMY          (ALL)
UGRIRSRY          (UGR1241P)
UHUILOGY          (UHR1243P)
UIR1240Y          (UHR1243P, UGR1241P, UGR1242P)
UHRREGSY          (UHR1243P)

*External name*
URSR

*Internal name*
UR02

AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - UMS Menu
F3 - Not available
F4 - Select from scroll screen
F5 - Not available
F6 - Not available
F7 - Page forward
F8 - Page backward
F9 - Select from scroll screen
F10 - Not available
F11 - Rescroll
F12 - Not available

NOTE: F4 and F9 require a function change

# UGRI1241P - GUEST INPUT

INPUT:          *Map*
                UGR1240M

                *Data*
                Plate type (Optional)
                Registration number (Required)
                Plate color (Optional)
                Registration status (Optional)

PROCESS:        Upon entry, the program determines the circumstances under
                which it is accessed.  If the user presses the enter key, all of the
                key data fields are checked.  If any data keys are entered, or
                changed, all the keys are edited.  Any of the following errors may
                be detected during editing:

                    ♦   REG CANNOT CONTAIN EMBEDDED SPACES
                    ♦   REG MISSING - PLEASE ENTER
                    ♦   PLATE TYPE CANNOT CONTAIN SPACES
                    ♦   PLATE TYPE MUST BE ALPHABETIC
                    ♦   PLATE COLOR MUST BE ALPHABETIC
                    ♦   STATUS KEYED IS INVALID

When an error is found, its corresponding error number is moved to the common area.

If you press the F7 key, the first entry from the previous page in the page table moves to the common area. If you change any of the keys on the screen and press F7, the key change is ignored. If the first page of data is currently being displayed and you press the F7 key, an error number moves to the common area.

If the F8 key is pressed, the bottom entry of the current page in the page table moves to the common area. If any of the keys on the screen are pressed along with F8, the key change is ignored. If there is no more data to display, an error moves to the common area.

If the program is entered because the user pressed the F11 key on another screen to rescroll back to URSR, the key data from the common area is moved to the common area.

If the program is entered for the first time, the system initializes the common area and the page table. When the URSR screen displays for the first time, the page number is zero and a message displays for you to enter data for the search.

If the program is entered because a duplicate registration is encountered on another screen, the program initializes the values for the scroll table and the current values move to the common area. A duplicate flag is also set for the host program.

The user may scroll by a full or partial page. If you place the cursor on a detail line and presses F8 (or F7), that detail line becomes the first line (or last line) on the next (or previous) page. This program maintains a page table for every line displayed on the screen. Each screen is a page in the page table. This accommodates partial paging.

OUTPUT:  If no errors are detected during processing, the system transfers control to the host retrieval program (UHR1243P). Otherwise, control transfers to the guest output program (UGUO100P) to display the error message.

MESSAGES:  
312001001 -  End of set encountered  
312001002 -  Beginning of set encountered  
312001003 -  Status keyed is invalid  
312001004 -  Entry not valid

312001005 -   Please enter keys
312001006 -   REG missing - please enter
312001007 -   Enter key valid with key changes only
312001008 -   Reg cannot contain embedded spaces
312001009 -   Plate type cannot contain spaces
312001010 -   Plate type must be alphabetic
312001011 -   Plate color must be alphabetic

CALLED MODULES:        None

## UHR1243P - HOST RETRIEVAL

INPUT:              Either the information keyed on the screen (plate type, registration number, plate color, and registration status) or the vehicle registration surrogate (VEHR-NUMB-SURR) are passed to this program.

PROCESS:            If the vehicle registration surrogate is present, it is moved to the vehicle registration record (MMVR-VEHR) which is obtained using the surrogate. Otherwise, the plate type, registration number, and color are moved to the vehicle registration record, which is obtained using the key information.

                    If there is a vehicle associated with the registration, the vehicle record (MMVR-VEHC) is obtained using the vehicle surrogate (VEHC-NUMB-SURR) from the vehicle registration record.

                    Next, the vehicle model record (MMVR-VMOD) is obtained using the vehicle model surrogate (VMOD-NUMB-SURR) from the vehicle record.

                    If the registration belongs to an individual owner, the person record (MMVR-PERS) is obtained using the owner surrogate (OWNR-NUMB-SURR) from the vehicle registration record. Otherwise, the non-individual corporate owner record (MMVR-NOWN) is obtained using the owner surrogate.

                    After the information is obtained from the database, the registration is checked for confidentiality. A call is performed to UICALLST to determine if the registration is confidential. If so, then the vehicle registration record is bypassed, and the next one is obtained.

If the primary status does not match the status entered by the user, the vehicle registration record is bypassed and the next one is obtained.

The program moves key information about each detail to the page table in the common area.

For each detail line, incident/offense records (MMVR-INCD-OFNS-R) that point to active actions (MMVR-ACTN) are obtained. The effective date on the action record must be less than the current date and the type of action must be suspended or revoked. If an action record that meets the above criteria is not found, a cancelled registration record (MMVR-CREG) is obtained for the other registration status types.

Information obtained from these records is used to create a registration status. Valid status codes for this screen are:

- ♦ ACTV
- ♦ EXPI
- ♦ SWAP
- ♦ CA19
- ♦ CAPR
- ♦ SUSP
- ♦ REVO
- ♦ INAC
- ♦ Blanks and low values

OUTPUT:     The program moves person information, vehicle registration information, registration status, and the page table to the common area. Control transfers to the guest output program (UGRO1241P).

MESSAGES:     312001017 - Bad program call
312001018 - Database error
312001019 - IDMS error
312001020 - No record for this key on database

CALLED MODULES:     UICALLST (for verifying confidential registrations)

DATA BASE RECORDS:     *Obtained*
MMVR-VEHR
MMVR-VEHC
MMVR-VMOD
MMVR-PERS
MMVR-NOWN

MMVR-INCD-OFNS-R
MMVR-CREG
MMVR-ACTN

*Stored*
None

*Modified*
None

*Erased*
None

# UGRO1241P - GUEST OUTPUT

INPUT:            Registration information retrieved by the host retrieval program, or any error messages generated by the guest input or the host retrieval program.

PROCESS:          After initialization, the program formats the screen from information in the common area.

                  If the current page of detail lines is less than the previous page of detail lines, the extra detail lines are erased.

                  The values from the common area are moved to the page table for each detail line.

OUTPUT:           The registration and person information are formatted on the screen.  An informational message is also displayed to inform the user of more data available to display, or that all the data has been displayed.

MESSAGES:         312001013 -   F8 for more records
                  312001014 -   End of set encountered
                  312001015 -   Change function, select REG and F4/F9

CALLED MODULES:       None

# 37

# VIN Search

## URSV Function

TITLE:                REGISTRATION SCROLL/VEHICLE IDENTIFICATION
                     NUMBER (VIN)

DESCRIPTION:     The URSV function is used to request and display a list of vehicle
                 registrations by VIN.  The key fields (fields to be entered) are VIN
                 and registration status.  The VIN is the only required field, and this
                 entry may be as short as one character.  The registration status is
                 optional but may be used to narrow the search.

                 NOTE: A typical use of this screen would be to find the
                 registration of an individual if all or part of the VIN is known.

COMPONENTS:      *Guest input program*
                 UGRI101P

                 *Guest output program*
                 UGRO101P

                 *Host program*
                 UHRI101P

                 *Map*
                 UGR101UM

                 *Copy books*
                 UGZCOMMY          (ALL)
                 UHRO101Y          (UHRI101P)
                 UGUIPOIY          (UHRI101P)
                 UIRO101Y          (UGRO101P)
                 UIRI101Y          (UGRI101P, UGRO101P)
                 UHUILOGY          (UHRI101P)

                 *External name*
                 URSV

*Internal name*
UR03

AVAILABLE FUNCTION KEYS:

        F1  - End session
        F2  - UMS Menu
        F3  - Not available
        F4  - Select from scroll screen
        F5  - Not available
        F6  - Not available
        F7  - Page backward
        F8  - Page forward
        F9  - Select from scroll screen
        F10 - Not available
        F11 - Rescroll
        F12 - Not available

NOTE: F4 and F9 require a function change

## UGRI101P - GUEST INPUT

INPUT:              *Map*
                        UGR101UM

                        *Data*
                        VIN (Required)
                        Registration status (Optional)

PROCESS:     Upon entry, the program determines the circumstances under which it was accessed.  If you pressed the ENTER key, all the key data fields are checked.  If any keys are entered or changed, all the keys are edited.  Any of the following errors may be detected during editing:

            ◆  ENTRY NOT VALID
            ◆  PLEASE ENTER KEYS
            ◆  VIN MISSING - PLEASE ENTER
            ◆  REGISTRATION STATUS KEYED IS INVALID

When an error is found, its corresponding error number is moved to the common area.

If the user presses the F7 key, the program moves the first entry from the previous page in the page table to the common area. If the user changes any of the keys on the screen and presses F7, the key change is ignored. If the first page of data is currently being displayed and the F7 key is pressed, the program moves an error number to the common area.

If the user presses the F8 key, the program moves the bottom entry of the current page in the page table to the common area. If the user changes any of the keys on the screen and presses F8, the key change is ignored. If there is no more data to display, an error number moves to the common area.

If the program is entered because the F11 key was pressed on another screen to rescroll back to URSV, the key data from the common area moves to the common area.

If the program is entered for the first time, the system initializes the common area and the page table. When the URSV screen is displayed for the first time, the page number is zero and a message is displayed to the user to enter data for the search.

If the program is entered because a duplicate VIN was encountered on another screen, the system initializes the current values for the scroll table and moves them to the common area. A duplicate flag is also set for the host program.

The user may scroll by full or partial page. If you place the cursor on a detail line and press F8 (or F7), that detail line becomes the first line (or last line) on the next (or previous) page. This program maintains a page table where every screen is a page in the page table. This accommodates partial paging.

OUTPUT:     If no errors are detected during processing, control is transferred to the host retrieval program (UHRI101P). Otherwise, control is transferred to the guest output program (UGRO101P) to display the error message.

MESSAGES:   310001001 - End of set encountered
310001002 - Beginning of set encountered
310001003 - Status keyed is invalid
310001004 - Entry not valid
310001005 - Please enter keys
310001006 - VIN missing - please enter
310001007 - Enter key valid with key changes only

## UHRI101P - HOST RETRIEVAL

INPUT:               Either the vehicle surrogate (VEHC-NUMB-SURR) or the VIN, and registration status are passed to this program.

PROCESS:            The vehicle record (MMVR-VEHC) is obtained using either the vehicle surrogate (VEHC-NUMB-SURR), if present, or the VIN index.  If the vehicle record indicates that the vehicle is registered, the vehicle registration record is obtained using the vehicle registration surrogate (VEHR-NUMB-SURR).  Otherwise, the title record is obtained, using the title surrogate (VEHT-NUMB-SURR).  Next, if a person owns the vehicle, the person record is obtained using the owner surrogate (OWNR-NUMB-SURR).  Otherwise, the non-individual corporate owner record is obtained using the OWNR-NUMB-SURR.

A call is performed to UICALLST to determine if the registration is confidential.  If so, the person record is bypassed and the next one is obtained.

Pertinent key information about each detail line is moved to the page table in the common area.

For each detail line, incident/offense records (MMVR-INCD-OFNS-R) that point to active actions (MMVR-ACTN) are obtained.  The effective date on the action record must be less than the current date for the status to be suspended or revoked.  If an action record meeting the above criteria is not found, a cancelled registration record (MMVR-CREG) is obtained for the other registration status types.

Information obtained from these records is used to create a registration status.  Valid status codes are:

- ◆ ACTV
- ◆ EXPI
- ◆ SWAP
- ◆ CA19
- ◆ CAPR
- ◆ SUSP
- ◆ REVO
- ◆ INAC
- ◆ Blanks and low values

OUTPUT:  The program moves person information, vehicle registration information, registration status, and the page table to the common area. Control is transferred to the guest output program (UGRO101P).

MESSAGES:  310001010 - Logical record error
310001011 - IDMS error
310001012 - A record matching entered key was not found
310001017 - Response not normal

CALLED MODULES:  UICALLST (for verifying confidential registrations)

DATA BASE RECORDS:  *Obtained*
MMVR-VEHR
MMVR-VEHC
MMVR-VMOD
MMVR-PERS
MMVR-NOWN
MMVR-VEHT
MMVR-ACTN
MMVR-CREG
MMVR-PERS-VEHR

*Stored*
None

*Modified*
None

*Erased*
None

## UGRO101P - GUEST OUTPUT

INPUT:  Vehicle registration, title, and person information retrieved by the host retrieval program, or an error message generated by the guest input program or the host retrieval program.

PROCESS:  After initialization, the program formats the screen from information in the common area.

If the current page of detail lines is shorter than the previous page of detail lines, the extra lines are erased.

Values from the common area are moved to the page table for each detail line.

OUTPUT:  The vehicle registration and person information are formatted on the screen.  A message also displays to inform you if more data is available, or if all the data has been displayed.

MESSAGES:  310001008 - F8 for more records
310001009 - End of set encountered, no more records
310001015 - Duplicate encountered

CALLED MODULES:  None

# 38     Vehicle Policy History Inquiry

## UVH Function

TITLE:                VEHICLE POLICY HISTORY INQUIRY

DESCRIPTION:     The UVH function is used to display policy information related to a registration or vehicle identification number (VIN). The user must enter either the registration information (plate type, registration number, and color) or the VIN to use this screen. If a duplicate registration key is entered, the user will be transferred to URSR and prompted to cursor select the correct registration number. If a duplicate VIN is entered, URSV will execute, and the user will be prompted to cursor select the correct VIN.

The detail lines on this screen represent each policy that the keyed vehicle/registration was covered by and when it was covered. The detail lines are sorted in descending order by policy begin coverage date. Multiple pages may be displayed on this screen by using the standard F7 and F8 for page forward and back.

This screen can be "hopped" to/from URI using F6 or from URSR/URSV/URSN with an F4 cursor select. In addition, the F3 key provides access to a limited secondary session. Secondary session is invoked by taking the following steps. After displaying the policies for a registration or VIN using the UVH screen, change the function code from UVH to UPA, cursor select the desired policy detail line, and press F3. This will transfer the user to the UPA screen and display the information for the desired policy. At this time, the user is in inquiry mode, but may change the action code and press the Enter key to change the mode to update. To return to the UVH screen, press the Clear key or the F1 key and resume the primary session.

The F11 key is used for rescrolling. When the user has been transferred to the UVH screen by pressing the F4 or F9 key on a scroll screen, the user may return to the scroll screen in order to make a new selection. This is done by changing the function code to the appropriate scroll screen's function and pressing the F11 key.

When a tape of a new UMS release is sent to insurance companies, they have 60 days to make changes to the guest software and maps to make the applications more suitable to their individual business needs.  For this reason, it is necessary to maintain two versions of the software.  During these 60 days, the old version of UVH may be accessed by entering the function code "TVH," while the function code "UVH" will execute the recently modified modules. After the 60-day period, TVH will no longer be available.

NOTE:  A typical use of the UVH screen would be to find  policy information related to a registration or VIN.

COMPONENTS:

*Guest input program*
UGU3111P

*Guest output program*
UGU3112P

*Host program*
UHU3113P

*LR*
UHU2113L

*Map*
UGU3110M

*Lx table*
UGU3110T

*Copy books*

| | |
|---|---|
| UGZCOMMY | (UGU1111P,UGU1112P) |
| UHZCOMMY | (UHU1113P) |
| UGU111AY | (UGU1111P,UGU1112P) |
| UGU111BY | (UGU1111P) |
| UIU111CY | (UGU1112P,UHU1113P) |
| UGZ1RFLY | (UGU1112P) |
| UHUILOGY | (UHU1113P) |

*External name*
UVH

*Internal names*
VH07, VH08

AVAILABLE FUNCTION KEYS:

>> F1  - End session
>> F2  - UMS Menu
>> F3  - Limited secondary session
>> F4  - Select from scroll screen
>> F5  - Not available
>> F6  - Screen hopping
>> F7  - Page backward
>> F8  - Page forward
>> F9  - Resolve duplicates from Registration
>>       or Vehicle scroll screens
>> F10 - Not available
>> F11 - Rescroll
>> F12 - Not available
>>
>> NOTE:  F3, F4, and F6 require function change

## UGU3111P - GUEST INPUT

INPUT:              *Map*
UGU2110M

                      *Data*
Registration (Required if VIN is blank)
Plate type
Registration number
Color
VIN (Required if Reg is blank)

PROCESS:       If the registration number or VIN has been entered or changed, it is moved to a part of the common area, called the guest-to-host block, that is sent to the Host Retrieval program (UHU3113P). Also, the internal name VH07 is moved to the guest-to-host block if the registration was entered or the internal name VH08 is moved for new VIN entries.

If this program is entered because the F4 key was pressed on a scroll screen, either the registration or vehicle surrogate from the common area is moved to the  guest-to-host block.  If the user pressed F7/F8 for paging, the appropriate surrogate is moved from the common area to the guest-to-host block for the Host Retrieval program to process.

OUTPUT:          If no errors are detected, the output from this program is placed in the guest-to-host block and passed to UHU3113P.  If an error is detected, an error message is moved to the common area and control is transferred to the Guest Output program (UGU3112P).

MESSAGES:        414001001 - Plate type or VIN equal spaces
                            414001002 - No surrogate found - F4
                            414001003 - F7 not valid
                            414001004 - No more records
                            414001005 - Entry not valid
                            414001025 - Reference not number

CALLED MODULES:     None


## UHU3113P - HOST RETRIEVAL

INPUT:             Guest-to-host block from UGU3111P

PROCESS:        The program first determines if a registration number or a VIN was entered.  If more than one key is entered, first the registration is used, then the VIN.  When a registration is entered, the registration record (MMVR-VEHR) is obtained and then the vehicle record (MMVR-VEHC) is obtained.  When a VIN is entered, the vehicle record is obtained, followed by the registration record.

                         After the registration and/or VIN are obtained, the program then obtains all the policies (MMVR-PLCY, MMVR-PLCY-VEHR) associated with the registration.  A maximum limit of 120 policies can be obtained.  The policies are stored in a table which is then sorted by policy begin coverage date.  The policy information is moved to a part of the common area called the host-to-guest block that is sent back to the Guest Output program (UGU3112P).

                         If the registration or VIN entered by the user is found to have duplicates, the user is transferred to either the registration or vehicle scroll screens to resolve the duplicate.  The user would then resolve the duplicate by placing the cursor on the desired detail and pressing the F9 key.  Depending on which screen, either the registration surrogate or the vehicle surrogate for the chosen detail is used to obtain the policy information. The registration and vehicle surrogates are also used in the same way when a user presses F4 to select from a scroll screen.

The Host Retrieval program also converts the policy status code and coverage status code to meaningful character representations. The policy status code conversion is determined using the policy status code, policy effective date, policy expiration date, and the current date. The coverage code is converted to alphabetic characters.

After the details are formatted, a link is performed to the lookaside module to store all the sorted, formatted details for paging. The details will remain in the lookaside area for 20 minutes before deletion. The registration and vehicle surrogates are used as keys to retrieve the saved lookaside table.

To page forward, the user presses F8. To page backward, the user presses F7. The policy surrogates for each policy are saved for use in paging. When F7/F8 are pressed, the lookaside table is retrieved and searched for a match and the details are moved to the host-to-guest block.

OUTPUT:    The policy information is moved to the host-to-guest block when no errors exist. Otherwise, an error code is moved to the common area. Control is passed to the Guest Output program (UGU3112P).

MESSAGES:    414001011 - Registration not found
414001012 - VIN not found
414001014 - LR error
414001015 - More than 120 policies
414001016 - Paging error
414001020 - Lookaside invalid function
414001021 - Lookaside surrogate invalid
414001022 - Lookaside length error
414001027 - LR error
414001028 - LR error
414001029 - LR error
414001030 - LR error
414001031 - LR error
414001032 - No section 1032
414001033 - No registration
414001034 - 1 policy not found
431130001 - Bad link on lookaside
431130002 - Bad link logging mod

CALLED MODULES:    UICALLST (For logging errors and lookaside processing)

LINKED MODULES:    UHZ0009P  -  Lookaside module

DATA BASE RECORDS:   *Obtained*
                                       MMVR-VEHR
                                       MMVR-VEHC
                                       MMVR-PLCY-VEHR
                                       MMVR-PLCY
                                       MMVR-ERMV
                                       MMVR-ERAP

                                       *Stored:*
                                       None

                                       *Modified:*
                                       None

                                       *Erased:*
                                       None


## UGU3112P - GUEST OUTPUT

INPUT:              Host-to-guest block from UHU3113P containing the policy
                         information for the registration/VIN or any error messages
                         generated by the Guest Input or the Host Retrieval programs.

PROCESS:         The information in the host-to-guest block is moved to the
                         common area and displayed on the screen.

                         A link is performed to the reference manager to manage the
                         reference list that is needed for scrolling.  A page table is
                         maintained with surrogates for the first and last entry on each page.
                         The next time the F7 or F8 key is pressed, the appropriate
                         surrogate is moved from the page table to the common area.  Also,
                         the registration and vehicle surrogates are moved to the common
                         area so that it may be used for screen hopping.

OUTPUT:           If no errors occur, the policy information is displayed on the
                         screen.  Otherwise, the error message is displayed.

MESSAGES:       414001009 - F8 for more
                         414001004 - No more records
                         414001013 - Policy not found

CALLED MODULES:       None

LINKED MODULES:        UGZ0022P  -  Reference Manager

# 39  UMS Corporation Vehicle Title History

## VT Function

TITLE:                    VEHICLE TITLE HISTORY

DESCRIPTION:              The VT function is used to request and display current and
                          historical title and registration information by the Vehicle
                          Identification Number (VIN).  The key field (field to be entered) is
                          the VIN, which is the only required field.

                          NOTE:  A typical use of this screen would be to find the current
                          and historical titles and registrations attached to a vehicle.

                          Multiple pages may be displayed on this screen by using the
                          standard F7 and F8 for page forward and back.

                          This screen can be transferred from a UMS screen (eg. RH, T1A)
                          or an ALARS screen (eg. TH, RVV) if a vehicle key is passed.
                          The screen can transfer to another screen using either the vehicle,
                          title, or registration information.  Pressing F6 transfers to another
                          screen with the vehicle information.  Positioning the cursor to a
                          detail line and pressing F4 transfers to another screen with either
                          the title or registration.

                          This screen resolves duplicate VIN numbers by transferring to the
                          URSV screen which will display the duplicate VINs, owners,
                          registrations, and the current status.  By positioning the cursor on a
                          detail line and pressing F9, URSV will transfer back to the VT
                          screen and display the current and historical vehicle information
                          for the entry selected.

COMPONENTS:               Guest input program
                          UGR3261P

                          *Guest output program*
                          UGR3262P

                          *Host program*
                          UHR3263P

*Map*
UGR3260M

*Copy books*
UGZCOMMY          (UGR3261P, UGR3262P)
UHZCOMMY          (UHR3263P)
UGR326AY          (UGR3261P, UGR3262P)
UGR326BY          (UGR3261P)
UIR326CY          (UGR3262P, UHR3263P)
UHUILOGY          (UHR3263P)
MREYBNME          (UHR3263P)
MREYBADR          (UHR3263P)
MREYBADW          (UHR3263P)
MREYBNMW          (UHR3263P)
MREYBADP          (UHR3268P)
MREYBNMP          (UHR3268P)

*External name*
VT

*Internal name*
VT03

AVAILABLE FUNCTION KEYS:

F1 - End session
F2 - UMS Menu
F3 - Not available
F4 - Screen transfer using cursor select
F5 - Not available
F6 - Screen transfer using keyed vehicle
F7 - Page forward
F8 - Page backward
F9 - Not available
F10 - Not available
F11 - Rescroll
F12 - Not available

## UGR3261P - GUEST INPUT

INPUT:          *Map*
                UGR3260M

*Data*
VIN (Required)

PROCESS: Upon entry, the program determines the circumstances under which it is accessed. If the user presses the enter key, the VIN field is checked to determine if it has changed. If a VIN was not entered, the screen will display a 'PLEASE ENTER VIN NUMBER' message.

If the user pressed the F7 key, the first entry from the previous page in the page table is moved to the common area. If the user changes the VIN key on the screen and presses F7, the key change is ignored. If the first page of data is being displayed and you press the F7 key, an error number is moved to the common area.

If the F8 key is pressed, the more records indicator from the common area is interrogated. If any of the keys on the screen are changed along with F8, the key change is ignored. If there is no more data to display, an error number is moved to the common area.

If the program is entered because the user pressed the F11 key on another screen to rescroll back to VT, the key data from the common area is used to obtain the vehicle information.

If the program is entered for the first time, the common area and the page table are initialized. When the VT screen is displayed for the first time, the page number is set to zero and a message is displayed to prompt the user to enter data for the search.

If the program is entered because the user pressed F4 or F6, the vehicle surrogate will be used to obtain the vehicle information.

OUTPUT: If no errors are detected during processing, the system transfers control to the host retrieval program (UHR3263P). Otherwise, control transfers to the guest output program (UGR3262P) to display the error message.

MESSAGES: 327001001 - Entry not valid
327001002 - Enter keys
327001003 - No surrogate F4
327001004 - Beginning of set encountered
327001005 - End of set
327001006 - Leading spaces

CALLED MODULES: None

## UHR3263P - HOST RETRIEVAL

INPUT:                Guest-to-host block from the guest input program (UGR3261P).

PROCESS:         If the enter key was pressed by the user, the vehicle record (MMVR-VEHC) is obtained using the VIN field entered by the user. If a VEHC record is not found, an error code is formatted. If more than one VEHC record is found for the VIN key, control is transferred to the Dupe Key Control module (UHRI101P - URSV).

When one VEHC record is successfully obtained, the VEHR, VEHT, PERS or NOWN, VEHC-HIST, and the ERMV records are read. An error is not formatted if any one record cannot be obtained. The VT screen fields are left blank if the appropriate record is not found (i.e. title date, purchase date, and odometer - VEHT, registration - VEHR, owner name and address - PERS or NOWN).

If F7 or F8 was pressed, the VEHC surrogate is used to obtain the VEHC-HIST record and the history counter on the page table determines the last history detail displayed on VT.

OUTPUT:          The vehicle information (up to four titles and/or registrations) is moved to the host-to-guest block when no errors exist. Otherwise, an error code is moved to the common area. Control is transferred to the Guest Output program (UGR3262P).

MESSAGES:      327003001 - VIN not found
327003002 - No records for key
327003003 - No more data
327003004 - LR error
327003005 - Bind error
327003006 - Finish error
327003007 - Vehicle information
327003008 - DML error

CALLED MODULES:     None

## UHR3263L - SUBSCHEMA

DATA BASE RECORDS:  *Obtained*
                         MMVR-VEHC

                    MMVR-VEHT
                    MMVR-VEHR
                    MMVR-VEHC-HIST
                    MMVR-PERS
                    MMVR-NOWN
                    MMVR-ERMV

                    *Stored*
                    None

                    *Modified*
                    None

                    *Erased*
                    None

## UGR3262P - GUEST OUTPUT

INPUT:              Vehicle information retrieved by the host retrieval program, or any
                    error messages generated by the guest input or the host retrieval
                    program.

PROCESS:            After initializing the detail portion of the screen, processing
                    continues to format the screen from information in the common
                    area if no error code has been sent from the guest input or host
                    retrieval modules.  The program formats the F4 table with the
                    VEHT, VEHR, PERS, NOWN, and VMOD surrogate keys.  The
                    page table containing the history counter is also loaded based on
                    the function key pressed by the user and whether there are details
                    to display.

OUTPUT:             The vehicle information is formatted on the screen.  An
                    informational message is also displayed to inform the user of more
                    data available to display, or if all the data has been displayed.

MESSAGES:           327002001 - F8 for more
                    327002002 - No more records

CALLED MODULES:        None

# 40        Person Name Inquiry

## ULP Function

TITLE:               UMS PERSON NAME SCROLL

DESCRIPTION:     The ULP function is used to request license or registration information by name. The key fields (fields to be entered) are last name, first name, middle name, and date of birth. Only the last name field is required, and this entry may be as short as one character (for example, locate all license holders whose last names begin with a particular letter). The first name, middle name, and date of birth entries are optional and used to narrow the search (for example, when locating John Q. Public born 10/30/41, the program returns only one entry).

COMPONENTS:      *Guest input program*
UGL0030P

*Guest output program*
UGL0031P

*Host program(s)*
UHL0040P

*Map*
UGL0010M

*Copy books*

| | |
|---|---|
| UGZCOMMC | (UGL0030P,UGL0031P) |
| UHZCOMMC | (UHL0040P) |
| IDMS LR UHL0040L-LR | (UHL0040P) |
| DFHAID | (UGL0030P) |
| IDMS SUBSCHEMA BINDS | (UHL0040P) |

*External name*
ULP

*Internal name*
LI03

AVAILABLE FUNCTION KEYS:

> F1 - End Session
> F2 - UMS Submenu screen
> F3 - Not available
> F4 - Select from scroll
> F5 - Not available
> F6 - Not available
> F7 - Page backward
> F8 - Page forward
> F9 - Not available
> F10 - Not available
> F11 - Not avaialble
> F12 - Not available
>
> NOTE: F4 requires function change

# UGL0030P - INPUT SCREEN HANDLER

INPUT:
> *Map*
> UGL0030M
>
> *Data*
> Last Name (Required)
> First Name (Optional)
> Middle Name (Optional)
> Date of Birth (Optional)

PROCESS:
> After initialization, the program determines the location and purpose of it being accessed.
>
> If access is from a first time call, the message ENTER NAME AND DATE OF BIRTH PRESS ENTER TO BEGIN displays back to the user screen for entry of the appropriate input.
>
> If access is through a normal request for name information (ENTER key), the last name as well as the other fields are validated from the call program UICALLST.  If input editing detects any errors or omissions, one of the following messages displays back to the user screen:
>
> ♦ LAST NAME MUST BE ENTERED, RETRY
> ♦ INVALID LAST NAME, PLEASE REENTER

♦ INVALID FIRST NAME, PLEASE REENTER
♦ INVALID MIDDLE NAME, PLEASE REENTER
♦ INVALID DATE OF BIRTH, PLEASE REENTER

To correct this situation, make the necessary correction, and reenter the request.

If access is through F7 (request to scroll backward) and no previous inquiry has been made, the message F7 INVALID - INQUIRY MUST BE DONE FIRST is displayed back to the user screen. If the screen is currently on the first page, the message BEGINNING OF SET ENCOUNTERED displays back to the user screen. Otherwise, the screen scrolls back one page.

If access is through F8 (request to scroll forward) and no previous inquiry has been made, the message F8 INVALID - INQUIRY MUST BE DONE FIRST is displayed back to the user screen. If the screen is currently on the last page, the message END OF SET ENCOUNTERED displays back to the user screen. Otherwise, the screen scrolls forward one page.

If access is through F11 (rescroll from an alternate function), the screen returns to the user at the position it occupied when the alternate function was accessed.

OUTPUT:          If no errors are detected, the output from UGL0030P is controls and keys established in the common area for use by the host program. If an error is detected, the output is a message displayed back to the user requesting further action.

MESSAGES:        201001001  -  Invalid last name, please reenter
201001002  -  Invalid first name, please reenter
201001003  -  Invalid middle name, please reenter
201001004  -  Invalid date of birth, please reenter
201001005  -  Beginning of set encountered
201001006  -  End of set encountered
201001007  -  Enter name and date of birth, press enter to begin
201001008  -  F7 Invalid - Inquiry must be done first
201001009  -  F8 Invalid - Inquiry must be done first
201001010  -  Last name is required

CALLED MODULES:       UICALLST  (calls editing routines)

## UHL0040P - NAME INFORMATION RETRIEVAL

INPUT:            Controls and keys from UGL0030P

PROCESS:        After initialization, the program reads the database to obtain the requested license information.  The search is made last name/first name/date of birth.  Aliases as well as current names are returned.

OUTPUT:         The output from UHL0040P is the requested name information, that passes to UGL0031P.

MESSAGES:      None

CALLED MODULES:    UICALLST (for security checking)


## UGL0031P - OUTPUT SCREEN HANDLER

INPUT:            Name information retrieved by UHL0040P, or any messages generated by the input screen handler or the host program and passed to UGL0031P.

PROCESS:        After initialization, the program formats the screen and displays it back to the user.

                      If the screen returned contains all of the requested information, the user receives the message END OF SET ENCOUNTERED.

                      If the retrieval gathers more information than will fit on one screen, the user receives the message ENTER F8 TO CONTINUE TO SCROLL FORWARD.  Use F8 until all requested information has been displayed.

                      At that time, the message END OF SET ENCOUNTERED displays on the user screen to indicate that all information has been gathered.

                      The message MAXIMUM NUMBER OF READS - PRESS F8 indicates that 300 I/O operations were performed without encountering a hit.  The returned screen is empty except for the above message.  The use of F8 initiates additional I/O.

OUTPUT:         *Map*
                 UGL0030M

*Data*
A formatted screen returned to the user. If the screen is blank, the user receives an associated message indicating either that no data exists for this request, or that more I/O must be performed to complete the search. If the screen is filled, the associated message indicates that this screen holds all of the retrieved data, or there is additional data to view.

NOTE: All error messages for this function, including those created by previous programs (and documented therein), actually appear on this output screen. Therefore, they are all part of the output from this program.

At this point, another function (for example, LI) could be invoked to obtain specific information about a particular individual. To do this, enter the function code desired, set the cursor on the line for the person requested, and press F4. To return to this screen, use F11 in the secondary function.

MESSAGES:       201001006  -  End of set encountered
                    201001011  -  More records on database - use F8
                    201001012  -  More records on database - use F8
                    201001013  -  Maximum number of reads - press F8 to continue

CALLED MODULES:      UICALLST  (call date conversion routine)

# 41      **Registration Amend**

## RA Function

TITLE:                    REGISTRATION AMEND

DESCRIPTION:     This screen is only available to non-remote sites or town offices. The RA Function is used to process changes or renewals for Registrations.  Entering a valid registration number or VIN retrieves information.  If a duplicate VIN or registration is entered, a second screen will appear (USRS or USRV) which will allow the user to select the correct record by placing the cursor on the record and then pressing the F9 key to return to the RA screen.

COMPONENTS:     *Guest Input Program*
UGR1271P

*Guest Output Program*
UGR1272P

*Host Programs:*
UHR1273P

*MAP:*
UGR1270M

*Table:*
UGR1270T

*Copy Books:*

| | |
|---|---|
| UGZCOMMY - Host Commarea | (UHR1273P, UGR1272P, UGR1271P) |
| UIR127AY - GSA/ Host-to-Guest Block | (UHR1273P, UGR1272P, UGR1271P) |
| UHR1273Y - RA Host Commarea | (UHR1273P) |
| UILXCNST - LX Table Constants | (UHR1273P, UGR1271P, UGR1272P) |

MREYCSHC - Cash Code Table            (UHR1273P)
UHRCKNWY - Owner Blocking Action      (UHR1273P)
MREYUR1P - UR1 Print Layout         (UHR1273P)
MREYBADR - Address Work Area        (UHR1273P)
MREYBNME - Name Compression Area     (UHR1273P)
MREYPPNM - Plate Names Table        (UHR1273P)
MCCYCCRD - Credit Card Payment Interface   (UHR1273P)
UHUILOGY - Host Message Logging Parm     (UHR1273P)
WAAYCDAT - Waasdate Area           (UHR1273P)
UIGSPPRT - Online Reg/ Title Print Comm Area 1 (UHR1273P)
UIGSPUR1 - Online Reg/ Title Print Comm Area 2 (UHR1273P)
UIR1FLGY - Data Management Control Flags   (UHR1273P)
MREYEDIT - Plate Type/ Reg Format Editor    (UHR1273P)
UHR1EXLY - Excise Tax Record Builder      (UHR1273P)
UIR1COMR - ALARS Commarea         (UGR1271P)

*External Name:*
RA

*Internal Name:*
RA01
RA02
RA03

AVAILABLE FUNCTION KEYS:

F1 - End Session
F2 - UMS Menu
F3 - Not Available
F4 - Not Available
F5 - Not Available
F6 - Not Available
F7 - Not Available
F8 - Not Available
F9 - Not Available
F10 - Not Available
F11 - Not Available
F12 - Update

## UGR1271P - GUEST INPUT

INPUT:              *Map*
                   UGR1270M

PROCESS:  Supervise the G/H Registration Amend Transaction when it returns from the screen.  This is a guest site module for the RA rewrite into Guest/Host format.  This module refreshes  GSA during the first time through and determines whether the user is from a remote site.  If not, the ALARS Commarea is accessed and appropriate information is moved to the GSA.  A valid Reg or VIN surrogate will be processed as a new key if accessing this screen from another screen using the F6 or F4 keys.  A duplicate resolution on the VIN, REG, or license fields will occur if the F9 field is used.  If enter or F12 is pressed, the update fields will be edited.  Control will be passed to clean up the processor which displays the screen or protocol processor allowing transfer control to the host side using an internal function code.

OUTPUT:  UGCM-NUMB-CURRENT-ERROR-CODE:  This is where an error code goes if needed.  This field must be zeroes if the program is going to XCTL to the protocol processor.  Whenever an error message is moved to this field, the error flag is set to high-values.  An attribute is also moved to the GSA field in error.

MESSAGES:  328001002 - NRES LINK ERROR
328001003 - NO CASH POSTING
328001015 - BAD NRES RC MSG

COPYBOOKS:
| | | |
|---|---|---|
| UGZCOMMY | - | common area |
| UILXCNST | - | LX Table Constants |
| UIR127AY | - | GSAArea |
| UIR1COMR | - | ALARS Commarea (Peek area) |

## UGR1272P - GUEST OUTPUT

INPUT:  *Map*
UGR1270M

PROCESS:  This program supervises the UMS Registration Amend Transactions when it returns from the host site.  This is a guest site module.

OUTPUT:  If needed, an error code goes to UGCM-NUMB-CURRENT-ERROR-CODE.

COPYBOOKS:
| | | |
|---|---|---|
| UGZCOMMY | - | Common Area |
| UILXCNST | - | LX Table Constants |
| UIR127AY | - | GSA Area |

CALLED MODULES:     N/A

# UHR1273P - HOST RETRIEVAL

INPUT:              *Map*
                    UGR1270M

PROCESS:            The function of the Registration Amend host input is to direct host
                    side processing for the RA screen.  This module acts as a driver to
                    direct processing to the input processor of RA function modules or
                    the output processor, depending on the user request.  This program
                    resides at the host site.

SUBSCHEMA:          UHR127IL-LR

OUTPUT:             Host Commarea contains the host-to-guest block.

CALLED BY:          The Registration Amend host input receives control from the
                    function dispatcher program upon successful completion of
                    security clearance. This module will transfer control to the host site
                    protocol processor to transmit data to the guest site (guest output
                    program).

DATA BASE RECORDS:  MMVR-VEHR
                    MMVR-VEHC
                    MMVR-VEHT
                    MMVR-VMOD
                    MMVR-NOWN
                    MMVR-PERS

MESSAGES:           328003000 - Address Problem
                    328003001 - Bad Date Load
                    328003002 - No Renew Msg
                    328003003 - No VEHC Action
                    328003004 - Action required
                    328003005 - Missing action msg
                    328003006 - F12 to update
                    328003007 - Print success
                    328003008 - Init please continue
                    328003009 - Invalid NOWN PERS
                    328003010 - Invalid NUM occur
                    328003011 - Inv IA action
                    328003014 - Batch success

328003015 - Duplicate batch number
328003016 - Closed batch print
328003017 - Bad print value
328003018 - Bad SYSID load
328003019 - Owner blocked
328003020 - INCP not found
328003021 - Drawer problem cash pgm
328003022 - Invalid RC cash pgm
328003023 - Bad cash table search
328003024 - Msg VEHR not found

| CALLED MODULES: | MRMSADDR |
| | MRMSAD31 |
| | UICALLST |

| COPYBOOKS: | UHZCOMMY | - | Host Commarea |
| | UIR127AY | - | GSA/Host-to-Guest Block |
| | UHR1273Y | - | RA Host Commarea |
| | UILXCNST | - | LX Table Constants |
| | MREYCSHC | - | Cash Code Table |
| | UHRCKNWY | - | Owner Blocking Action |
| | MREYUR1P | - | UR1 Print Layout |
| | MREYBADR | - | Address Work Area |
| | MREYBNME | - | Name Compression Area |
| | MREYPPNM | - | Plate Names Table |
| | MCCYCCRD | - | Credit Card Payment Interface |
| | UHUILOGY | - | Host Message Logging Parm |
| | WAAYCDAT | - | WAASDATE Area |
| | UIGSPPRT | - | Online REG/TITLE Print Commarea 1 |
| | UIGSPUR1 | - | Online REG/TITLE Print Commarea 2 |
| | UIR1FLGY | - | Data Management Control Flags |
| | MREYEDIT | - | Plate TYPE/REG Format Editor |
| | UHR1EXLY | - | Excise Tax Record Builder |