



Mobile Computer Command Interface
for the Virginia State Police
Computer Aided Dispatch System

Functional Design Specification

Table of Revisions:

Revision:	Date:	Reason:
A	04/04/2001	Draft distributed for comments
00	05/15/2001	Initial Release
01	07/3/2001	Changed the port assignment specification in section 2.3 from dynamic allocation to static assignment.
02	7/11/2001	Added Traffic Stop Summary (TSS) command description and, an applicable Response message for the Clear command.
03	09/27/2001	Changed message formats to use the ASCII Field Separator character. Miscellaneous corrections and clarifications.
04	04/01/2003	This revision includes additions, corrections, and clarifications noted during the development and implementation of the CAD interface. Nonessential and redundant information has been deleted. A description of the CAD Message Switch System (Section 4.0) was added. Additional Commands and/or Statuses have been added: Who, Where, Miscellaneous, Change Division, Dispatch, Lock, Unlock, Acknowledge, Emergency. The Case Number command has been deleted. Appendix C has been added for developer reference.
05	04/13/2004	Updated Trade Mark information. Removed DRAFT from page headers.

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1.0 Introduction

1.1 Purpose

This document defines the Mobile Computer Terminal (MCT) Command Interface for the Virginia State Police (VSP) Computer Aided Dispatch (CAD) system. For purposes of this document, the CAD System is defined as all of the individual VSP Division CAD systems and, the CAD Message Switch component of the CAD Mobile System Interface. The intent of this specification is to provide a functional description of the following:

System architecture

Transmission protocol and messages formats for the mobile application

The mobile interface command set

CAD System actions, reactions, and responses to mobile commands

Interactions of CAD System components

VCIN/NCIC and NLETS query requirements

Requirements imposed on MCT Systems by this specification are that all commands and associated data elements must be supported and that all command messages must comply with the specified structure and protocol format.

2.0 Systems Communication

This section provides specific information and requirements related to the network protocol layers used for communication with and by the CAD Message Switch component of the Mobile Command Interface. The information that follows, references components of the diagram contained in [Figure: 2-1](#). A general overview of each component is contained in [Table 2-1](#).

2.1 Network Protocol

Transmission Control Protocol (TCP) is utilized for message communications between all components of the CAD system. Standard TCP applications such as TELNET, FTP, and TFTP, while supported by the CAD system, are not available for communicating with the MCT clients.

2.2 Network Addressing

Internet Protocol (IP) addressing is used throughout the network. When applicable, it will be the responsibility of the Wireless Network Provider to provide ICANN¹ assigned IP addresses for all components of the mobile system and, the CAD Message Switch network interface to the mobile clients. The Network Address Translator (NAT) feature may be utilized such that the CAD Message Switch will appear as a node on the wireless network. All other IP addresses required are assigned by VSP. Configuration and management of Network Layer Routing Protocol, if required by the mobile system, will be the responsibility of the Wireless Network Provider.

2.3 CAD Message Switch Interfaces

Functionally, the CAD Message Switch has three external system interfaces. Message communications with the Mobile System will be through the **Mobile Interface**. Commands

¹ Internet Corporation for Assigned Names and Numbers

and response messages between the CAD Message Switch and Division CAD servers will utilize the **CAD Interface**. Mobile VCIN queries and response messages will be handled by the **VCIN Interface**. A connection diagram of these interfaces is provided in [Figure 2-1](#).

2.3.1 Mobile Interface

2.3.1.1 Physical/Internet

The CAD Message Switch Local Area Network (LAN) connections will be Ethernet/IEEE 802.3(u) (10/100BaseT(X)). The Wide Area Network (WAN) can be virtually any private or commercial wireless data networking facility that terminates into a LAN router accessible by the CAD Message Switch. Mobile System clients may reside on the mobile system WAN or anywhere on the VSP LAN.

2.3.1.2 Session

Sessions between the MCT and CAD system are established by the MCT initiating a standard TCP Connect sequence with the MSS. The MSS creates a listening socket to which the port and IP address are bound. It is the responsibility of the mobile system to both initiate and reestablish MCT client socket connections. The CAD Message Switch will never initiate a connection with an MCT. Therefore, line-loss recovery is the responsibility of the mobile system.

2.3.1.2.1 Connect / Disconnect

The mobile user must initially submit the [HLOG](#) command, to establish a session connection with the CAD Message Switch. Conversely, to conclude the session, an [HOFF](#) command must be sent to close the connection.

2.3.1.2.2 Session Security

CAD Message Switch Logon by a MCT user will require the following three elements to match an entry in the CAD Message Switch security file:

- (1) The mobile user's VSP assigned Unit or Badge number.
- (2) The mobile user's VSP assigned Code number.
- (3) An eight-character user defined Password.

Refer to the [HLOG](#) and [HPAS](#) commands for element details and requirements.

2.3.1.3 Transport

The mobile data system provider is responsible for defining the Transport Layer Protocol required for their system. The provider must enlist support from the VSP CAD System vendor² to ensure CAD Interface support for this protocol.

2.3.1.4 Application Messages

The Application Layer message format, which is imbedded within the Transport Layer message frame, is defined in [Section 3](#) of this specification. The maximum length of this embedded message is 64 Kbytes excluding the delimiting Start-of-Text and End-of-Text transmission control characters. Additional details may be found in the individual Command descriptions provided in [Sections 5](#) and [6](#).

² PRC Public Sector Incorporated.

2.3.2 CAD Interface

TCP socket connections, between the CAD Message Switch and Division CAD Servers, will be established. Initialization of these connections will be attempted at systems startup and, individually, whenever a loss of connection is detected. If a connection is lost with any CAD Server or VCIN, the CAD Message Switch will continuously attempt to re-connect.

2.3.3 VCIN Interface

The VCIN connection will be the same as currently exists on the Division CAD Servers. This connection consists of a bi-directional TCP socket utilizing port 6800.

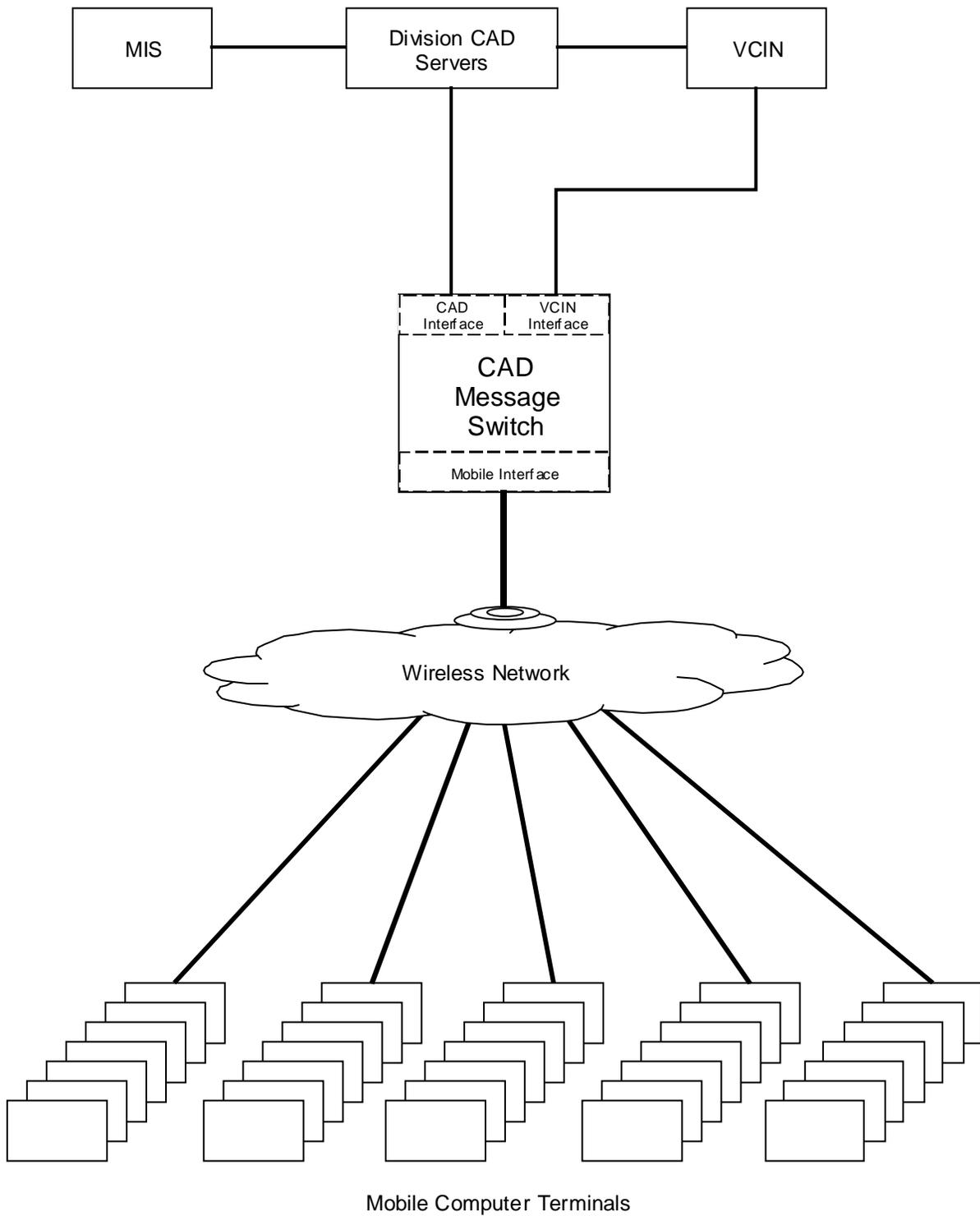


Figure 2-1 System Interfaces

Table 2-1 System Descriptions

<p>Division CAD Servers</p>	<p>Each of the seven VSP divisions have autonomous CAD systems that consists of dual DEC AlphaServer™(s), a shared mass storage array, and a minimum of five Windows NT Workstation™ dispatch terminals. One of the CAD servers is the operational system while the other provides fail-over redundancy and system test capability.</p>
<p>CAD Message Switch</p>	<p>The CAD Message Switch is a component of the Mobile Computer Command Interface. The switch consists of primary and backup DEC AlphaServer™ computer systems with a shared mass storage array. The Message Switch will be responsible for mobile user access security, MCT message traffic routing, and message activity logging. The links between the CAD Message Switch and Division CAD servers will be a native VSP Wide Area Network connection with a link data rate of not less than 1.5 Mb/sec.</p>
<p>Management Information System (MIS)</p>	<p>The MIS is a Windows NT Server™ based repository for all CAD History file information. Computer users, with access to the VSP network, may query the History information database using a standard Internet web browser.</p>
<p>VCIN</p>	<p>The Virginia Criminal Information Network maintains a central database for Criminal Justice agencies throughout the Commonwealth. In addition, VCIN provides access to databases maintained by the Virginia Departments of Motor Vehicles and Game and Inland Fisheries, the National Crime Information Center (NCIC), and out-of-state agencies by way of the National Law Enforcement Telecommunications System (NLETS).</p>
<p>Mobile Computer Terminal System</p>	<p>Components of the MCT System may vary depending on the particular system employed. Typically, they will include vehicle mounted PCs, a wireless communications facility, a centralized message switch, and an access gateway. The link between the MCT System access gateway and the CAD Message Switch will be a VSP native, Local Area Network connection, with a data rate of not less than 10 Mb/sec. Properties of the wireless network used to interconnect the MCT System will be defined by the wireless technology and service provider.</p>

3.0 Message formats

All messages transmitted between the MCT and CAD Systems are ASCII encoded character strings in a format applicable to the message type. The MCT Clients transmit and receive messages in the Mobile System Interface Protocol. The CAD Message Switch translates these messages into CAD or VCIN recognizable commands and forwards them to the appropriate destination for processing. An inverse translation occurs for all messages transmitted by the CAD Message Switch to the MCT Clients. The formats for the MCT application layer messages are detailed in the following subparagraphs. These message strings are embedded within the Transport Layer protocol frame, immediately preceding the End-of-Transmission control character.

3.1 MCT to CAD Messages (Commands):

$[s_{o_H}]$ Header ...CMD $[s_{r_x}]$ FC¹ $[f_s]$ FD¹ $[f_s]$... FCⁿ $[f_s]$ FDⁿ $[f_s]$ $[e_{r_x}]$

Where:

$[s_{o_H}]$ = Start-of-Header transmission control character. (ASCII x01)

Header = Application message header fields required and defined by the mobile client software for transmit messages.

CMD = Four character command identifier code for the CAD interface commands and statuses. This field must occupy the last four character positions of the application message header.

$[s_{r_x}]$ = Start-of-Text transmission control character. (ASCII x02)

$[f_s]$ = Field-Separator transmission control character. (ASCII x1C)

FC¹ thru FCⁿ = Two or four character information field identifiers, first through the last.

FD¹ thru FDⁿ = Information fields associated with the corresponding ⁿ field identifier.

$[e_{r_x}]$ = End-of-Text transmission control character. (ASCII x03)

3.2 CAD to MCT Messages (Responses):

$[s_{o_H}]$ Header ...TID $[s_{r_x}]$ FC¹ $[f_s]$ FD¹ $[f_s]$... FCⁿ $[f_s]$ FDⁿ $[f_s]$ $[e_{r_x}]$

Where:

$[s_{o_H}]$ = Start-of-Header transmission control character. (ASCII x01)

Header = Message header fields required and defined by the mobile software for receive messages.

TID = Four character message type identifier for the CAD or VCIN message. This field must occupy the last four character positions of the application message header.

$[s_{r_x}]$ = Start-of-Text transmission control character. (ASCII x02)

$[f_s]$ = Field-Separator transmission control character. (ASCII x1C)

FC¹ thru FCⁿ = Two to four character field identifiers first through ⁿ, with ⁿ signifying the last identifier for the command.

FD¹ thru FDⁿ = Information fields associated with the corresponding ⁿ field identifier. (14,700 bytes maximum each)

$[e_{r_x}]$ = End-of-Text transmission control character. (ASCII x03)

4.0 CAD Message Switch System

The following description of the CAD Message Switch System explains the function of the switch with regard to the mobile interface. This information provides an understanding of functionality added to the CAD system to accommodate desired features, and certain interactions between the CAD, VCIN, and MSS systems.

The CAD Message Switch System (MSS) serves as a message broker, which is responsible for routing and logging mobile-to-mobile messages, mobile VCIN inquiries and responses, mobile-to-CAD and CAD-to-mobile commands and messages, and CAD-to-CAD messages and commands.

4.1 MSS and Mobiles

The MSS processes logon, logoff, mobile-to-mobile, and VCIN messages independent of any CAD system. This allows limited mobile functionality even if the mobile user's home CAD system is unreachable. The MSS is set up initially with 2000 mobile terminal entries in the Line Table, with multiple terminals on a line, and with multiple lines. Each mobile command is examined by the MSS to ensure that the mobile user is authorized to execute the command. If the user has the required security level, the command will be processed by the MSS and, if needed, by one of the CAD systems. The CAD systems are not responsible for checking security on commands issued by a mobile. Based on information maintained in the MSS unit file, the MSS will determine to which CAD system a mobile user should be connected. The Unit File includes a mobile unit's home CAD, home group, temporary CAD, and temporary group. The MSS also ensures that Unit and History File segments are written to the correct CAD system, or multiple CAD systems when necessary. The MSS allows a mobile to reconnect without user intervention if the initial connection is lost. All command message parsing is performed by the MSS.

4.2 MSS and CAD

The MSS serves as the message handler for all CAD-to-CAD commands. The CAD systems Line Tables contain only the actual CAD terminals local to that division.

4.3 CAD-to-CAD Interface Functionality

4.3.1 Current Commands

To/term/ – allows CAD users in one division to send a “To” text message to users in another Division. This command uses the CAD-to-CAD functionality of the interface.

IHD #inc number – allows CAD users in one division to view an Incident History from another Division using the full Incident Number. This command uses the CAD-to-CAD functionality of the interface.

4.3.2 New Commands

UH across divisions – allow CAD users from one division to view a Unit History maintained in another Division.

Suggested command – **UHD unit #**

US across divisions – allow CAD users from one Division to view US display from another Division.

Command – **USD D/division G/group unit#**

User must supply either division and/or group. If division only is specified, command functions across division lines as a US ALL to that division.

IS across divisions – allow CAD users from one division to view an incident status display from another division. Display should be the same as a local IS display. User should be able to then transmit on any displayed Incident Number and get the Incident History.

Command – **ISS D/division G/group**

User must supply either division and/or group. If division only is specified, command functions across division lines as an IS ALL to that division.

WHO across divisions – will allow CAD users in one division to find out who is signed on any CAD or mobile terminal throughout the state.

Suggested command – **WHOD T/terminal D/division**

User must supply either terminal and/or division. If division only is specified, command functions across division lines as a WHO ALL to that division.

WHERE across division – allow CAD users from one division to find out where a user is signed on to any CAD or mobile in the system.

Command – **WHERED D/division and #code or B/badge or name.**

User must supply division to eliminate the need to check every division. At least one other query field must be supplied.

Change Division – This command allows the dispatcher or mobile unit to change the current assigned Division of that mobile unit. The unit's normal Division is considered the home division; the division to be changed to is the foreign division.

Command – **CD unit C/division**

Where **C/division** is the division the unit should be assigned to.

Every Division CAD will have two dispatch groups associated with this command. One group will be used to hold units that are foreign to that division, and the other will hold units that have been assigned to foreign divisions. The groups will be designated: **G^{division}AU** (Away Units - ex G7AU) for local units that have been assigned to other divisions and **G^{division}VU** (Visiting Units - ex G7VU) for units that are foreign to that division.

Unit status-changing commands can only be executed by dispatchers signed onto to terminals in the unit's current assigned division, or by the unit themselves. Once a CD command is issued, the following will occur:

A segment is written to the home division CAD Unit History indicating the CD command was issued and to which foreign division CAD system the unit was assigned.

The Unit is auto-logged on to the foreign division CAD system and a new Unit History is opened for the visiting unit on the foreign division CAD system.

Unit is displayed in the home division CAD Away Units dispatch group.

Unit is displays in the foreign division CAD Visiting Units dispatch group

All unit history segments will be written to both division CAD Unit Histories.

Only the unit or foreign division controlling dispatchers will be permitted to issue status-changing commands.

Only the foreign division CAD status monitors will update to display unit status changes.

Any incidents the unit may be assigned to, or that are initiated by the unit, will be created only in the foreign division CAD.

When the unit marks, or is marked, 10-42 (Ending Tour of Duty) by the foreign division controlling dispatcher, the unit will be removed from the status monitors in both divisions and the foreign division CAD designation will be removed from the CAD system and the message switch. For multiple day assignments, the CD command must be issued each time the unit submits a 10-41 (Beginning Tour of Duty) command.

5.0 CAD Commands and Status Messages

The CAD Interface commands and status message code supported are defined in this section. With the exception of three, all command sequences are originated from the MCT Client. The Dispatch and Assist are dispatcher-initiated events. Therefore, these two commands will produce unsolicited Dispatch command messages to the MCT Client. The To Message command may be sent from a CAD System terminal or another MCT. For this command, an unsolicited text message will be sent to the MCT.

Selected Commands have the capability of being invoked by an equivalent Status function. The purpose of these functions is to provide MCT support for one-touch activation of frequently used commands that don't regularly require parameter values that are other than default. Status functions are received and processed by the CAD system exactly like other commands. The format used to transmit Status functions is the same as for a command message except that the command identifier code for all functions is **HSTS**, the first field identifier is **STAT** to indicate a status field, and the associated field data contains the actual one to four character status code. For processing, the same CAD command routines are called as for full command messages, but all command parameter fields assume the default values.

For each command, the purpose, format, data elements descriptions, system actions, and response messages are defined. Some command formats have multiple entry possibilities and/or an associated Status function string definition. The data element descriptions also include the field length, data type and in some cases, an example. For clarity, representative information may be shown in some of the response examples. Such information is signified by italicized font. (See "Response message variables" example in the conventions listed below)

The terms "MCT user", "Unit" or "Unit's" and, "mobile user" are used universally throughout this document. All references are synonymous with the current user-id logged on to the MCT system.

The following conventions are used in the Command description tables:

- Command codes are displayed in **UPPERCASE, BOLD, BLOCK** font.

Example: **HBTD**

- The | symbol (pipe) within a command string indicates the position of a transmission control character (ASCII x01, x02, x03, or x1C). See [Section 3](#) for character definitions.

Example: **HBTD|.....**

- Required field codes are designated by **UPPERCASE, BOLD, BLOCK** font.
Example: **HBTD | BM**.....
- Required field data variables are displayed in **lowercase, bold, block** font.
Example: **HBTD | BM | beginning mileage**
- Optional field codes are indicated by *UPPERCASE, BOLD, ITALICIZED* font.
Example: **HBTD | BM | beginning mileage | DP**.....
- Optional field data variables are displayed in *lowercase, bold, italicized* font.
Example: **HBTD | BM | beginning mileage | DP | duty post**
- Fixed length fields are specified by stating the required number and type of characters.
Example: Field length – Required 8 numeric characters.
- Variable length fields are specified in minimum-maximum number and type of characters.
Example: Field length – 1-7 alphanumeric characters.
- The textual content of response messages is displayed within quotation marks.
Example: “text” indicates TEXT (ASCII x54455854)
- Response message variables are signified by *italicized* font.
Example: “**1102 Enroute to #DIV10100001**”

5.1 Emergency Status Command

Purpose: To notify the sending unit's controlling dispatcher that an emergency exists and immediate assistance is required at senders location. Use of this status command is optional, and secondary to the Emergency function provided by the mobile radio system.

Command: HEMR | DATE | **mmddyyyy** | TIME | **hhmmss** |

Where: **mmddyyyy** is the current mobile computer system date.
Field length – Required 8 numeric characters. Example: 08232002
hhmmss is the current mobile computer system time.
Field length – Required 6 numeric characters. Example: 120449

Actions: **CAD Message Switch**
Sends the Emergency message received from the mobile user to the sender's assigned division CAD system. If unit is not logged onto any CAD system, the MSS sends a broadcast message to terminals in the DSPT group of the unit's home CAD.
CAD
Displays an Emergency message on the controlling dispatcher's terminal, including the location of the unit's assigned incident. If the unit is not currently assigned, the location of the unit's last incident since marking on duty will be displayed. If no incident location is available, Location Unknown will be indicated. If the unit is not currently logged on, the message received will not include any location information and will state that an emergency message has been received from the unit and that the unit is not currently marked on.

Responses: "Emergency Message Sent to Dispatcher"

5.2 Operator Logon Command

Purpose: To establish initial contact with the CAD Message Switch, verify username and password, obtain access security level. This command must be sent every time the mobile application is initialized and connection with CAD or VCIN is desired.

Command: HLOG | BN | **unit** | CN | **code** | UP | **password** |

Where: **unit** is the user's Badge/Unit number.
Field length – 1-5 alphabetic/numeric characters
code is the user's Code Number.
Field length – 1-6 alphabetic/numeric characters
password is the user's Password.
Field length – Required 8 alphabetic/numeric characters

Actions:

CAD Message Switch

Verifies user name and password passed on information in the security file.
If username and/or password is invalid, an error message is returned to the mobile user.
If valid user can now execute mobile to mobile messages and most VCIN inquiries.
Check the unit file to determine user's assigned Division. Checks assigned division to determine if the user already has a unit history with Beginning Tour of Duty time recorded. If found, the MSS connects user to that CAD and raises the security settings on the MSS to allow all commands from the mobile. If not found, the user will be required to transmit the Beginning Tour of Duty command to connect to a CAD system.

CAD

Actions are only required if the user has a Beginning Tour of Duty flag set. If so, CAD accepts access level security settings from the CAD Message Switch and adds an automatic OP ON segment to the Unit History to record the command. Displays that the Mobile Line is Up. Signals CAD to update Status Monitor display to show unit with mobile connected.

Responses:

Maximum length – 78 alphanumeric characters.
These responses will all be generated at the MSS level.
“**1102 Connected to Division 1 CAD**” – if command is successful.
“**1102 Unable to connect to CAD**” – if the mobile user's home CAD is unavailable.
“**Invalid Code/Password**” – if the code and/or password do not match what is on file.
“**Password expires in # days**” – if the mobile user's password is set to expire in # days³.
“**Password expires today**” – if, after 5 consecutive days, the mobile user has not issued “**Last chance to change**” a successful **PASSWORD** command.
“**Password has expired**” – if the mobile user has not responded to all previous expiration “**Contact Supervisor**” warning messages.

5.3 Change Password Command

Purpose:

To allow the mobile user to change the operator sign on password as desired or required.

Command:

HPAS | OP | old password | NP | new password | VP | verify password |

Where:

old password is the user's current (old) password.
Field length – Required 8 alphabetic/numeric characters
new password is the new password.
Field length – Required 8 alphabetic/numeric characters
verify password is the verification password that must match **new password**.
Field length – Required 8 alphabetic/numeric characters

Actions:

CAD Message Switch

Verifies and updates the mobile user's Password in the security file.

Responses:

Maximum length – 78 Alphanumeric characters.
Responses generated by MSS.
“**Password has been changed**” – if command execution is successful.
“**Invalid password entered**” – if the entered old password does not match current password on file, or if the new password is not typed twice, identically.

³ Expiration warning messages will begin 5 days prior to expiration and continue until 1 day remains.

5.4 Lock Command

Purpose: To disable MCT command entry.

Command: HSTS | STAT | LOCK |

Actions: **CAD Message Switch**

Disables all commands by removing the security settings from the issuing MCT user's Security File entry.

CAD

None.

Responses: None

5.5 Unlock Command

Purpose: Re-enables command entry from an MCT that has been previously locked.

Command: HUNL | UP | password

Where: **password** is the user's current Password.

Field length – Required 8 alphabetic/numeric characters

Actions: **CAD Message Switch**

Restores the user's Security Files settings for all commands.

CAD

None.

Responses: Maximum length – 78 alphanumeric characters.

Response message generated by MSS.

“**Terminal signed off**” – if the command is successful, response is sent to the mobile user.

5.6 Operator Logoff Command

Purpose: To end contact with the CAD Message Switch. This command must be sent every time the mobile data application is to be terminated.

Command: HOFF |

Actions: **CAD Message Switch**

Closes port connected with that session. Checks CAD system to see if unit is still active. If unit is found signals CAD to show line as down and update status monitor to indicate mobile not connected.

CAD

Unit display on Status Monitor updated to remove mobile connected tic mark.

Responses: Maximum length – 78 alphanumeric characters.

Response message generated by MSS.

“**Terminal signed off**” – if the command is successful, response is sent to the mobile user.

5.7 Identify Terminal User Command

Purpose: To identify the user currently signed-on a specified terminal or all users on a defined group of terminals.

Command: **HWHO | TI | termid |**

Where: **termid** is the terminal id or terminal-group id.
Field length – Required 5 alphabetic/numeric characters

Actions: **CAD Message Switch**
Looks up and returns the user(s) information for the terminal(s) specified by **termid**.
If terminal or group is not found in the CAD Message Switch line table, Division CAD line tables will be checked.

CAD
Responds to the command if terminal or group is not local to the Message Switch

Responses: Alphanumeric indefinite length.

5.8 Locate Terminal User Command

Purpose: To determine the terminal identifier of a signed-on user.

Command: **HWHR | UN | name |**
or:
HWHR | CN | code |
or:
HWHR | BN | badge |

Where: **name** is either the full name, last name, or partial last name of the user to locate.
Field length – Maximum 26 alphabetic characters.
Examples: Brown, John J - Brown - Bro
code is the employee code number of the user.
Field length – Maximum 6 alphabetic/numeric characters. Example: 1234B
badge is the badge or unit number of the user to be located.
Field length – Maximum 5 alphabetic/numeric characters. Example: 1442

Actions: **CAD Message Switch**
Searches Message Switch terminals for requested user.
If user not found on Message Switch, Division CAD terminals are checked.
CAD
Responds to the command if user is not signed on to a terminal local to the Message Switch.

Responses: Alphanumeric indefinite length.

5.9 Terminal to Terminal Message Command

Purpose: To send a text message to another MCT or any other terminal connected to the CAD system.

Command: **HTOM | D1 | dest1 | D2 | dest2 | D3 | dest3 | D4 | dest4 | D5 | dest5 | MT | message text |**

Where: **dest1** is the destination terminal identifier. At least one destination is required. This may be any MCT user connected to the CAD Message Switch, any CAD terminal, or any defined group of terminals.

Field length – Maximum 5 alphabetic characters

dest2 through **dest5** are additional destination terminal identifiers.

Field length – Maximum 5 alphabetic/numeric characters

message text is the text to be sent.

Field length – 1-384 alphanumeric character

Actions: **CAD Message Switch**

Forwards the message to destination terminal.

If terminal is not a mobile, local to the Message Switch, the message is forwarded to the appropriate division.

CAD

If message is received from the Message Switch, CAD forwards it to the appropriate terminal.

Responses: Alphanumeric indefinite length.

5.10 Acknowledge Last Message Status Command

Purpose: To send an acknowledgement message to the sender of a previous message.

Command: HSTS | STAT | OK |

Where: **OK** is the status code for Okay.

Actions: **CAD Message Switch**

Sends an Okay command to the issuing unit's currently assigned CAD.

CAD

Enters a segment in the issuing unit's history file.

Responses: None

5.11 Change Division Command

Purpose: To allow a dispatcher or mobile user to change the user's currently assigned division.

Command: HCCD | AD | division |

Where: **division** is the division number to which the unit is to be assigned.

Field length – Required 1,2,3,4,5,6, or 7 (ASCII x31---x37) single numeric character.

Actions:

CAD Message Switch

Updates the Unit file on the Message Switch to reflect the unit’s home division and the new assigned division.

Sends the division change information to the unit’s home division CAD and to the new assigned division’s CAD.

CAD

Home division CAD places the unit Out-of-Service, moves the unit to the Away Units Dispatch Group, and continues to receive all Unit History segments from the unit.

The foreign division CAD auto-logs the unit on duty, opens a temporary Unit History, and moves the unit into the Visiting Units Dispatch Group. The temporary Unit History will have all the segment codes of a standard Unit History including an automatic logon and Beginning Tour of Duty segment.

Only the unit or their current controlling dispatcher may issue status-changing commands.

Responses:

Maximum length – 78 Alphanumeric characters.

Responses generated by CAD message switch.

“Assigned Division Changed to #” – where # is the division number.

5.12 Beginning Tour of Duty Logon Command

Purpose:

To log a unit 10-41 with beginning mileage, additional duty post assignment information, special assignment code information, and comments when needed.

Command:

HBTD | BM | beginning mileage | DP | duty post | SA | special assignment | CF | comments |

Where:

beginning mileage is the unit’s vehicle odometer reading.

Field length – Maximum 6 numeric characters.

duty post is the unit’s duty post assignment:

Field length – Maximum 7 alphabetic/numeric characters.

special assignment is the unit’s special assignment code

Field length – Maximum 3 alphabetic/numeric characters.

comments is any additional comments the unit may want entered in the Unit History.

Field length – Maximum 78 alphanumeric characters.

Actions:

CAD Message Switch

Forwards command message to the appropriate Division CAD.

If needed Message Switch sets a flag showing unit has marked BTD.

CAD

If Unit is currently in logon status....

If unit provides duty post assignment and or special assignment information, any existing duty post and special assignment information will be overwritten.

If unit does not provide duty post and or special assignment information, existing duty post and special assignment information is retained.

If Unit is not in logon status and not shown as on duty in CAD....

Unit is logged 10-41 with any information supplied.

All information will be recorded in the unit history.

PMSGR command automatically runs to retrieve and forward any personal messages on file for this Unit. Marks the messages as delivered in CAD if they are delivered successfully to the mobile user and updates the Unit History.

Responses: Maximum length – 78 alphanumeric characters.
“**1102 Beginning Mileage Required**” – if mileage is not provided.
“**1102 1041 Information Already Recorded**” – if unit has previously marked 10-41
“**1102 1041 at HHMM 01A 01J 154**” - if unit has duty post assignment information, the last 3 characters of up to 2 duty post assignments and special assignment code returned. Same information displayed to controlling dispatcher.
“**1102 1041 at HHMM No Road Assignment 154**” – if unit does not provide, and currently does not have, a road assignment set in CAD but does have a special assignment code. Same information displayed to controlling dispatcher.
“**1102 1041 at HHMM No Road Assignment**” – if unit does not provide, and currently does not have, a road assignment and special assignment code set in CAD. Same information displayed to controlling dispatcher.

Secondary Responses: If a PMSG (phone message) is on file for the unit marking on, CAD will retrieve the message and send it to the mobile user. The responding message format will be as follows:

to unit ^ PMSG ^ message text
ENTERED DATE:MMDDYY ^ ENTERED TIME:HHMM
OPER: user id

Maximum length – 285 alphanumeric characters.

Example: “**1102 PMSG 1021 JOE GREEN AT 555-1212**
ENTERED DATE:MMDDYY ENTERED TIME:HHMM
OPER:3327C”

5.13 Ending Tour of Duty Logoff Command

Purpose: To log a unit 10-42 with ending mileage and comments when needed.

Command: HETD | EM | ending mileage | CF | comments |

Where: **ending mileage** is the unit’s vehicle odometer reading.
Field length – Maximum 6 numeric characters. Example: 176031
comments is any additional comments the unit may want entered into the Unit History.
Field length – Maximum 78 alphanumeric characters.

Actions: **CAD Message Switch**
Forwards command message to the appropriate Division CAD.
If command executes successfully on the unit’s assigned CAD system:
Flags Ending Tour of Duty received on Message Switch.
No dispatch or status commands allowed after receiving this command. Only commands allowed with the OP ON command can be executed.
Signals all CAD systems involved to close any unit histories open.
CAD
If unit is currently in on duty status and not assigned to an incident....
Unit is logged off. Response sent to mobile user and dispatcher.
If unit is currently assigned to an incident....
Unit is not logged off and an error message is returned to the mobile user.
If unit is not shown on duty in CAD....
Error message is sent to mobile user.
All information will be recorded in the Unit History.
Unit History closed.
Segment should reflect 10-42.

Responses: Maximum length – 78 alphanumeric characters.
“**1102 Ending Mileage Required**” – if mileage is not provided.
“**1102 Not Currently Logged On**” – if Unit is not shown as on duty in CAD.
“**1102 1042 at HHMM**” - if Unit successfully logs off in CAD. Message is sent to mobile user and dispatcher.
“**1102 Assigned, Not Logged Off**” – if unit is currently assigned to an incident.

5.14 Enroute to Dispatched Incident Command

Purpose: To mark a unit enroute to the incident for which they have received a Dispatch message.

Command: **HERT** | *CF* | *comments* |
Or Status: **HSTS** | **STAT** | **ER** |

Where: *comments* is any additional comments the unit may want entered into the Unit History.
Field length – Maximum 78 alphanumeric characters.
or:
ER is the status code for Enroute.

Actions: **CAD Message Switch**
Forwards command message to the appropriate Division CAD.
CAD
If Unit has been dispatched to an incident....
Unit status is updated, history segments are written to the Unit and Incident Histories.
Response is sent to mobile user and dispatcher.
If Unit has not been dispatched to an incident....
Error message is returned to the mobile user.

Responses: Maximum length – 78 alphanumeric characters.
“**1102 Enroute to #DIV10100001**” – normal response with 12 character incident number.
“**1102 Not Currently Dispatched**” – if unit is not shown as dispatched in CAD.
“**1102 Already Enroute**” - if unit has already marked enroute to an incident.

5.15 Onscene Command

Purpose: To mark a unit onscene at an incident that they have received a dispatch message for or, onscene at an activity that they are shown enroute to.

Command: **HONS** | *CF* | *comments* |
Or Status: **HSTS** | **STAT** | **OS** |

Where: *comments* is any additional comments the unit may want entered into the Unit History.
Field length – Maximum 78 alphanumeric characters.
OS is the status code for Onscene.

Actions: **CAD Message Switch**
Forwards command message to the appropriate Division CAD.
CAD
If Unit has been dispatched to an incident....
Unit status is updated, history segments are written to the Unit and Incident Histories.
If Unit has not been dispatched to an incident....
Error message is sent to the mobile user.

Responses: Maximum length – 78 alphanumeric, characters.
“**1102 Onscene at #DIV10100001**” – normal response with 12 character incident number.
“**1102 Not Currently Enroute**” – if unit is not shown as dispatched or enroute to an activity in CAD.
“**1102 Already Onscene**” - if unit has already marked onscene.

5.16 Change Location Command

Purpose: To indicate that the mobile user has left the current location of the assigned incident and is enroute to another location.

Command: HCLO | NL | **new location** | CF | **comments** |

Where: **new location** is the new location the mobile user is enroute to.
Field length – Maximum 39 alphanumeric characters. Example: 123 Main St.
Field delimiters – [(ASCII x5B) at the beginning and] (ASCII x5D) at end.
comments is any additional comments the unit may want entered into the Unit and Incident Histories.
Field length – Maximum 78 alphanumeric characters.

Actions: **CAD Message Switch**
Forwards command message to the appropriate Division CAD.
CAD
If Unit has been dispatched to an incident....
Unit status is updated, history segments are written to the Unit and Incident Histories.
Response sent to mobile user and dispatcher.
If Unit has not been dispatched to an incident or activity....
Error message is sent to the mobile user.

Responses: Maximum length – 78 alphanumeric characters.
“**Unit 1102 Enroute to New Location: 123 Main St. (#DIV10100001)**” – if command executes successfully.
“**Unit 1102 is not Assigned or Out of Service**” – if unit is not shown as dispatched or enroute to an incident or activity in CAD.

5.17 Transport Command

Purpose: To indicate that the Unit currently assigned to an incident or activity is transporting a subject.

Command: HTRN | TS | **transport status** | NL | **new location** | CF | **comments** |

Where: **transport status** is the status of the transport. “**T**” for transporting, “**C**” for transport complete.
new location is the new location the Unit is transporting a subject to
Location is required if status is “**T**” for transporting.
Field length – Maximum 39 alphanumeric characters. Example: 123 Main St.
Field delimiters – [(ASCII x5B) at the beginning and] (ASCII x5D) at end.
comments is any additional comments the unit may want entered into the Unit and Incident Histories.
Field length – Maximum 78 alphanumeric characters.

Actions: **CAD Message Switch**
Formats command into TR or TRC depending on status indicator. Status indicator is not passed to CAD.
Forwards command message to the appropriate Division CAD.

CAD
If Unit has been dispatched to an incident....
 Unit status is updated, history segment is written to the Unit and Incident Histories.
 Response sent to mobile user and dispatcher.
If Unit has not been dispatched to an incident or activity....
 Error message is sent to the mobile user.

Responses: Maximum length – 78 alphanumeric characters.
 “Unit 1102 Transporting to 123 Main St. (#DIV101000001)” – if command executes successfully.
 “Unit 1102 Transport Complete at 123 Main St. (#DIV101000001)” – if command executes successfully.
 “Unit 1102 is not Assigned or Out of Service” – if unit is not shown as dispatched to an incident or activity in CAD.

5.18 **Wrecker Request Command**

Purpose: To send a request for the next rotational wrecker at the scene of the mobile user’s assigned incident.

Command: **HTOW | WZ | zone | WC | wrecker class | CF | comments |**

Where: **zone** is the rotational wrecker zone the mobile user needs a wrecker from.
 Field length – Maximum 4 numeric characters. Example: 441
wrecker class is the type of wrecker needed. L for light duty, H for Heavy duty.
 Field length – Required **L** or **H** (ASCII x4C or x48) single alpha character.
comments is any additional comments the unit may want entered into the Unit and Incident Histories. Comments should include any vehicle or service information the mobile user may need to pass on to the wrecker service.
 Field length – Maximum 78 alphanumeric characters.

Actions: **CAD Message Switch**
Formats command into TOW or TOWL depending on class indicator.
Forwards command message to the appropriate Division CAD.

CAD
If Unit has been dispatched to an incident....
 Request is sent to controlling dispatcher with the next recommended wrecker information.
 History segment is written to the Unit and Incident Histories.
 Response sent to mobile that dispatcher has been notified of the request.
If Unit has not been dispatched to an incident or activity....
 Error message is sent to the mobile user.

Responses: Maximum length – 78 alphanumeric characters.
 “Tow Request Received for 1102 (#DIV101000001)” – if command executes successfully.
 “Unit 1102 must be assigned to an Incident to request a TOW” – if unit is not shown as dispatched to an incident or activity in CAD.

5.19 Give Disposition Command

Purpose: To record complete disposition information for an incident from the primary unit when an arrest or traffic summons has been issued.

Command: **HGDI** | **IN** | *incident number* | **RD** | **road** | **D1** | **disposition** | **L1** | **legal code** | **V1** | **vehicle code** | **D2** | *disposition* / **L2** | *legal code* / **V2** | *vehicle code* / **D3** | *disposition* / **L3** | *legal code* / **V3** | *vehicle code* / **D4** | *disposition* / **L4** | *legal code* / **V4** | *vehicle code* / **CF** | *comments* |

Where: *incident number* is the incident to which **disposition**(s) is to be applied. Only required if the Unit is not currently assigned to the incident.

Field length – Maximum 12 alphabetic/numeric characters, preceded by the # sign (ASCII x23). Example: #DIV101000001

interstate is a road type indicator for where the incident occurred.

Field length – Maximum 1 alpha character, either “I” (ASCII x59) or “N” (ASCII x4E) or “O” will be transmitted depending on choice from drop down.

disposition is a valid disposition code when a summons or arrest is made.

Field length – Maximum 3 alphabetic/numeric characters. Example: ART

legal code is a valid section number for the applicable Code of Virginia statute. There must be a corresponding **legal code** provided for each **disposition** given.

Field length – Maximum 13 alphanumeric characters including periods (ASCII x2E) and dashes (ASCII x2D). Example: 46.2-1993.117

vehicle code is a valid vehicle type-code. Vehicle codes may not be applicable for certain **disposition** codes however, there must be a corresponding **vehicle code** field included for each **disposition** and **legal code** entered.

Field length – Maximum 1 alpha character, either “P” (ASCII x50) for passenger or “C” (ASCII x43) for commercial vehicle or “N” (ASCII x4E) for not applicable.

comments is any additional comments the unit may want entered into the Unit and Incident Histories.

Field length – Maximum 78 alphanumeric characters.

Actions: **CAD Message Switch**

Forwards command message to the appropriate Division CAD.

CAD

If Unit is currently the primary on an incident or, *#incident number* is provided and Unit was primary....

Records the given disposition information to the Incident History.

Records the given disposition information to the Unit History.

Information record in a manner that will allow for searches for the information to be conducted on all fields (road type, disposition, legal code, and vehicle type).

Information recorded in a manner that will allow it to be easily transferred to MIS.

Returns response message to mobile user.

If Unit is not currently the primary on an incident and *#incident number* is provided but Unit was not the primary....

Records information in the Unit History.

Information record in a manner that will allow for searches for the information to be conducted on all fields (road type, disposition, legal code, and vehicle type).

Information recorded in a manner that will allow it to be easily transferred to MIS.

Returns response message to mobile user.

If Unit is not assigned to an incident and *#incident number* was not provided....

Error message is sent to the mobile user.

Responses: Maximum length – 78 alphanumeric characters.
“#DIV10100001 given disposition of UTS.ART” – successful response message may include up to 4 disposition codes.
“Unit not assigned to incident” – if unit is not currently assigned as primary unit to an incident and #incident number was not furnished.

5.20 Traffic Stop Summary Command

Purpose: To provide statistical information about arrests and searches as a result of a traffic stop.

Command: HTSS | AS | arrest or summons | JC | jurisdiction | SR | race | SS | search | TA | traffic or aerial |

Where: **arrest or summons** is an indicator to signify whether the stop resulted in an arrest.
Field length – Required **Y**es or **N**o (ASCII x59 or x4E) alpha character.
jurisdiction is the numeric code assigned to the jurisdiction in which the traffic stop occurred.
Field length – Required 3 numeric characters. Example: 043
race is the VSP assigned code for the race of the traffic stop or search subject.
Field length – Required **W**hite, **B**lack, **H**ispanic, **A**sian, **I**ndian, **O**ther, or **U**nknown single alpha character.
search is an indicator to specify whether a search was conducted.
Field length – Required **Y**es or **N**o (ASCII x59 or x4E) alpha character.
traffic or aerial is an indicator to signify whether the stop was a regular traffic stop or aerial enforcement.
Field length – Required **T**raffic or **A**erial (ASCII x54 or x41) alpha character.

Actions: **CAD Message Switch**
Forwards command message to the appropriate Division CAD.
CAD
If the unit is currently assigned to a traffic stop incident....
Information provided is recorded within the CAD system for periodic transfer to the MIS system.
Enables an incident closing Clear command from the primary unit assigned to the traffic stop.
Records information into Incident History and a sequential file to allow for easy search and transfer to MIS.
If the unit is not assigned to a traffic stop incident or is not the primary unit....
Error message is returned to the issuing unit.

Responses: Maximum length – 78 alphanumeric characters.
“Incident #DIV10100001 summary accepted” – if command is successful. Response is sent to mobile user and controlling dispatcher.
“Summary not accepted (unassigned unit)” – if command is unsuccessful because the unit is not currently assigned to a traffic stop incident. Response is sent to mobile user and controlling dispatcher.
“Summary not accepted (secondary unit)” – if command is unsuccessful because the unit is assigned as secondary to the traffic stop incident. Response is sent to mobile user and controlling dispatcher.

5.21 Clear Command

Purpose: To clear a mobile user from an incident or activity.

Command: **HCLR | D1 | disposition | D2 | disposition | D3 | disposition | D4 | disposition / CF | comments |**
Or Status: **HSTS | STAT | C |**

Where: **disposition** are the unit's incident disposition codes. At least one code is required if: no disposition codes have been given with a **GD** command, the incident/activity type requires a disposition, and the clearing unit is the primary assigned. Up to four codes can be provided but none can be any for which a legal code is required.

Field length – Maximum 3 alphabetic characters. Example: WUS

comments is any additional comments the unit may want entered into the Unit and Incident Histories.

Field length – Maximum 78 alphanumeric characters.

C is the status code for Clear

Actions: **CAD Message Switch**

Forwards command message to the appropriate Division CAD.

CAD

If the unit is primary on an incident or activity....

If required disposition information is not provided or is incorrect, an error message is returned to the mobile user.

If required disposition information is provided or has been previously provided with the GD command the Unit and Incident Histories are updated and the Unit's Status is changed to Available. Response message is sent to the mobile user.

Status monitor is updated to reflect the unit's status change.

If the unit is assigned to an incident or activity but is not primary....

Unit and Incident Histories are updated to show Unit cleared from the incident. Any disposition information provided is written to the Unit History only. Unit Status is changed to Available and response is sent to mobile user and controlling dispatcher.

Responses: Maximum length – 78 alphanumeric characters.

“Unit 1102 cleared at 11:00 from #DIV101000001” – if command is successful and other units are still assigned to the incident or activity. Response is sent to mobile user and controlling dispatcher.

“Unit 1102 cleared at 11:00 from #DIV101000001 (Closed)” – if command is successful and the unit is the last to clear. Response is sent to mobile user and controlling dispatcher.

“Must enter disposition when clearing Primary Unit” – if required disposition information has not been provided or is incorrect. Response is sent to mobile user.

“Unit 1102 back in service at 11:00” – if Unit is assigned to a non-incident generating activity such as “Meal”. Message is sent to controlling dispatcher and mobile user.

“Unit 1102 cannot clear from #DIV101000001 (TSS required)” – if command is sent by the primary unit assigned to a traffic stop incident but a **TSS** command has not been issued.

5.22 Out of Service Command

Purpose: To place a mobile user out of service onscene, or enroute to, an incident or activity.

Command: **HOUT | OS | out status code | TC | type code | NL | out location | VL | license | LS | license state | LY | license year | LT | license type | CF | comments |**

Where: **out status** is a Enroute or Onscene indicator.

Field length – Required single **E** or **O** (ASCII x45 or x4F) alphabetic character.

type code is an incident or activity type code defined in the CAD system.

Field length – Maximum 6 alphabetic/numeric characters.

out location is the location of the activity or incident. Not required for all types.

Field length – Maximum 39 alphanumeric characters.

license is the license plate number the mobile user wants run in association with this activity. The number must be preceded by the @ sign (ASCII x40).

Field length – Maximum 8 alphabetic/numeric characters. Example: ABC123

license state is the license plate issuing state. If left blank and **license** is sent with the command, **license state** will default to VA.

Field length – Maximum 2 alphabetic characters.

license year is the year of registration expiration. If left blank and **license** is sent with the command, **license year** will default to current year.

Field length – Maximum 4 numeric characters. Example: 2001

license type is the type code⁴ of vehicle license. If left blank and **license state** is included with the command, **license type** will default to PC.

Field length – Maximum 2 alphabetic characters. Example: PC

comments is any additional comments the unit may want entered into the Unit and Incident Histories.

Field length – Maximum 78 alphanumeric characters.

Actions: **CAD Message Switch**

Forwards command message to the appropriate Division CAD. If license information is provided, the CAD Message Switch will format the query and send it to VCIN and to CAD for recording the registration request in the appropriate history files.

CAD

If the type code indicates this should generate an incident, CAD will create the incident.

A message will be sent to the dispatcher that the mobile user is out on an incident or activity. An unverified location message will be displayed for the controlling dispatcher.

All information is recorded in the Unit and Incident Histories.

⁴License plate Type Codes are defined in the NCIC Code Manual.

Responses: **From CAD** – Maximum length 78 alphanumeric characters.
“Unit 1102 Out-of-Service Enroute to *location*” – if the **OUTE** command is used and **type code** requires an incident be created. Message is sent to mobile user and controlling dispatcher.
“Unit 1102 Out-of-Service Onscene at *location*” – if the **OUT** command is used and **type code** requires an incident be created. Message is sent to mobile user and controlling dispatcher.
“Unit 1102 Out-of-Service Enroute” – if the **OUTE** command is used and **type code** is an activity. Message is sent to mobile user and controlling dispatcher.
“Unit 1102 Out-of-Service Onscene” – if the **OUT** command is used and **type code** is an activity. Message is sent to mobile user and controlling dispatcher.
“Location Not Entered” – if **type code** requires a location and ***location*** is not entered. Error message is sent to mobile user.
“Incident Type/Out Code is Invalid” - if **type code** is not a valid code in the CAD system. Error message is sent to the mobile user.
From VCIN – Alphanumeric messages of unspecified length.
If ***license*** was submitted, the CAD Message Switch will format and the run the VCIN query or, queries if ***license state*** is not VA. Responses may include VCIN wanted, NCIC wanted, VA or other state vehicle ownership information.

5.23 Traffic Stop Command

Purpose: To place a mobile user out of service on a traffic stop.

Command: **HOTS** | *DT* | *direction* | *HW* | *highway* | *RP* | *position* | **NL** | **out location** | *VL* | *license* | *LS* | *license state* | *LY* | *license year* | *LT* | *license type* | *VM* | *vehicle make* / *VT* | *vehicle style* / *VC* | *vehicle color* / *CF* | *comments* |

Where:

direction is the direction of the limited access roadway.

Field length – Required **NB, SB, EB, WB, or UD** 2 alpha characters.

highway is the interstate or limited access roadway.

Field length – 3 numeric characters. Examples: 95, 288, 37,264

position is the reference to the location of the traffic stop on the Interstate or Limited Access Roadway.

Field length – Required **AT, NO, SO, EO, or WO** 2 alpha characters.

out location is the location of the activity or incident.

Field length – Maximum 39 alphanumeric characters.

license is the license plate number the mobile user wants run in association with this activity. The number must be preceded by the @ sign (ASCII x40).

Field length – Maximum 8 alphabetic/numeric characters. Example: @ABC123

license state is the license plate issuing state. If left blank and **license** is sent with the command, **license state** will default to VA.

Field length – Maximum 2 alphabetic characters.

license year is the year of registration expiration. If left blank and **license** is sent with the command, **license year** will default to current year.

Field length – Maximum 4 numeric characters. Example: 2001

license type is the type code⁵ of vehicle license. If left blank and **license state** is included with the command, **license type** will default to PC.

Field length – Maximum 2 alphabetic characters. Example: PC

vehicle make is the make of the vehicle.

Field length – Maximum 4 alphabetic characters. Example: CHEV VOLK DAEW

vehicle style is the style of the vehicle.

Field length – Maximum 2 alphabetic characters. Examples: SD DT

vehicle color is the color of the vehicle.

Field length – Maximum 3 alphabetic characters.

comments is any additional comments the unit may want entered into the Unit and Incident Histories.

Field length – Maximum 78 alphanumeric characters.

Actions:

CAD Message Switch

If information is entered into the direction, interstate, position fields, this information will be combined with any information in the location field and sent as location.

If information is entered into the vehicle make, vehicle type, vehicle color fields this information will be combined with any information in the comments field and sent as comments.

Forwards command message to the appropriate Division CAD. If license information is provided, the CAD Message Switch will format the query and send it to VCIN and to CAD for recording the registration request in the appropriate history files.

CAD

A message will be sent to the dispatcher that the mobile user is out on a traffic stop. A message for location verification will also be sent to the dispatcher if the location does not verify in the CAD geographical information file. All information is recorded in the Unit and Incident Histories.

⁵License plate Type Codes are defined in the NCIC Code Manual.

Responses: **From CAD** – Maximum length 78 alphanumeric characters.
“**Unit 1102 TS at location**” – Message is sent to mobile user and controlling dispatcher.
“**Location Not Entered**” – if *location* is not entered. Error message is sent to mobile user.
From VCIN – Alphanumeric messages of unspecified length.
If *license* was submitted, the CAD Message Switch will format and the run the VCIN query or, queries if *license state* is not VA. Responses may include VCIN wanted, NCIC wanted, VA or other state vehicle ownership information.

5.24 Miscellaneous Command

Purpose: To add a miscellaneous comment entry in the user’s Unit History file.

Command: HMHI | CF | **comments** |

Where: **comments** is any additional comments the unit may want entered into the current Unit History file.
Field length – Maximum 78 alphanumeric characters.

Actions: **CAD Message Switch**
Forwards command message to the appropriate Division CAD.
CAD
Updates the issuer’s Unit History and assigned Incident History with the comment provided.

Responses: “**Unit History Updated**” if the issuer has an active history file.
“**No Unit History Found**” if the issuer is not currently signed-on to CAD.

5.25 Unit History Command

Purpose: To request a Unit History.

Command **HUHR** | *HD* | *date* |
Or Status: **HSTS** | **STAT** | **UH** |

Where: *date* is the date of the unit history requested. If not provided CAD will default to the most current unit history.

Field length – Required 6 numeric characters. Example: 030601

UH is the status code for most requesting the most current Unit History.

Actions: **CAD Message Switch**
Forwards command message to the appropriate Division CAD.

CAD

Requested Unit History will be returned to the mobile user in the response message.

Responses: Alphanumeric indefinite length.
Refer to [Appendix A](#) for a typical Unit History response.

5.26 Incident History Command

Purpose: To request an Incident History.

Command **HIHR** | *IN* | *incident number* |
Or Status: **HSTS** | **STAT** | **IH** |

Where: *incident number* is the incident number of the incident history desired. If not provided CAD will default to the current or last incident the Unit was assigned to.

Field length – 12 alphabetic/numeric characters.

Example: DIV101000001

IH is the status code for requesting the current or last assigned Incident History.

Actions: **CAD Message Switch**
Forwards the command message to the appropriate Division CAD.

CAD

Requested Incident History will be returned to mobile user.

Responses: Alphanumeric indefinite length.
Refer to [Appendix A](#) for a typical Incident History response.

5.27 Unit Roster Command

Purpose: To request a Unit Roster.

Command **HURR** | *DG* | *dispatch group* |
Or Status: **HSTS** | **STAT** | **UR** |

Where: *dispatch group* is the dispatch group or division the roster is being requested for. If this is not provided CAD will default to mobile user's home CAD group.

Field length – Maximum 5 alphanumeric characters beginning with "G" (ASCII x47).

Example: G101.

UR is the status code for requesting the user's home CAD group Roster.

Actions: **CAD Message Switch**
Forwards the command message to the appropriate Division CAD.
CAD
Requested Unit Roster will be returned to mobile user in a response message.

Responses: Alphanumeric indefinite length.
Refer to [Appendix A](#) for a typical Unit Roster response.

5.28 **Unit Status Command**

Purpose: To request a Unit Status list.

Command **HUSR | DG | *dispatch group* | UN | *unit* |**
Or Status: **HSTS | STAT | US |**

Where: Note: Only one of these parameters may be sent. If neither is provided, the request will return the user's individual Status.
dispatch group is the dispatch group for which the status is being requested.
Field length – Maximum 5 alphabetic/numeric characters beginning with “G” (ASCII x47). Example: G101.
unit is the unit number for whom the status is being requested.
Field length – Maximum 5 alphabetic/numeric characters. Example: 1102
US is the status code for requesting an individual's own Status.

Actions: **CAD Message Switch**
Forwards the command message to the appropriate Division CAD.
CAD
Requested Unit Status will be returned to mobile user in a response message.

Responses: Alphanumeric indefinite length.
Refer to [Appendix A](#) for a typical Unit Status response.

5.29 Dispatch Command

Purpose: This command message is sent to the mobile user when a dispatcher issues the CAD command to dispatch the Unit to an incident either as the primary or as an assisting unit.

Command: **HDSP | 01 | primary | 02 | assist1...thru...36 | assist35 | IN | incident | TC | typecode | NL | location | LI | location info | NA | narrative | SR | source | PR | priority | DE | description | DG | group | CN | name | CA | address | CP | phone | DP | dutypost |**

Where: **primary** is the badge number of the primary unit being dispatched to the incident.
Field length – Maximum 5 alphabetic/numeric characters. Example: 1442
assist1 thru **assist35** are the badge numbers of assisting units being dispatched to the incident.
Field length – Maximum 5 alphabetic/numeric characters. Example: 988
incident is the Incident Number for which the unit(s) are being dispatched.
Field length – Required 12 alphabetic/numeric characters. Example: DIV101052338
typecode is the incident Type Code
Field length – Maximum 6 alphabetic/numeric characters. Example: 1050I
location is the location of the incident.
Field length – Maximum 39 alphanumeric characters.
location info is additional details about the location information.
Field length – Maximum 39 alphanumeric characters.
narrative is the narrative entered in the incident text field when the incident was created.
Field length – Maximum 265 alphanumeric characters.
source is a code for the source of the call that initiated the incident.
Field length – Maximum 1 alphabetic/numeric characters. Example: T
priority is the Priority Code assigned to the incident.
Field length – Maximum 2 alphabetic/numeric characters. Example: 2P
description is a description of the incident Type Code.
Field length – Maximum 30 alphanumeric characters.
group is the Dispatch Group to which the incident has been assigned.
Field length – Required 5 alphabetic/numeric characters. Example: G10I
name is the name of the reporting party or source of the resulting incident.
Field length – Maximum 35 alphabetic/numeric characters.
address is the address of the reporting party.
phone is the reporting party's telephone number.
Field length – Maximum 10 numeric characters. Example: 8045551212
dutypost is the primary Duty Post to which the incident has been assigned.
Field length – Maximum 7 alphabetic/numeric characters. Example: 010101A

Actions: **CAD Message Switch**
CAD Message switch will receive the command message from the CAD system and forward it to all specified mobile users.
CAD
Status changes for the dispatched units will not be indicated until they respond to the Dispatch command with an Enroute or Onscene.
Timers will be set to notify the dispatcher if any of the dispatched units do not respond with Enroute or Onscene within the amount of time specified by settings in the Type file.

Responses: Alphanumeric text message of indefinite length.
The response message sent to the mobile user will include the entry segment of the incident history. The message will be formatted as follows:
Line 1 – **DISPATCH**
Line 2 – The Primary unit number dispatched to this incident.
Lines 3–n – A list of all assisting units currently dispatched to the call in order of assignment. Up to four units per line. All other information will move down one line as needed. One blank line will follow the last line needed to display the units.
Line n+1 – Incident Number Date/Time
Line n+2 – Incident Type, Source, and Priority
Line n+3 – Incident Location
Line n+4 – Further location information if available
Line n+5 – Entry segment narrative
Line n+6 – Explanation of incident type
Line n+7 – Dispatch Group and Duty Post
Line n+8 – Caller’s Name
Line n+9 – Caller’s Address
Line n+10 – Caller’s phone number

5.30 Court Information Command

Purpose: To allow a mobile user to enter, update, retrieve, and delete court disposition information by date.

Command **HCIA | AC | action code | JC | jurisdiction code | SD | start date | ED | end date | CD | dui convictions / DD | dui dismissed / ND | dui nolle / CO | convictions other / DO | dismissed other / NO | nolle other / LO | complied |**

Where:

action code is the information action to execute.

Field length – Required **I**nsert **U**pdate **R**etrieve Or **D**elete (ASCII x49, x55, x52, or x44) single alpha character.

start date is the date of the disposition information entry.

Field length – Required 6 numeric characters. Example: 030801

end date is the ending date of a date range. Used only when retrieving a range of disposition information⁶.

Field length – Required 6 numeric characters. Example: 030801

jurisdiction code⁷ is the court's jurisdiction code.

Field length – Required 3 numeric characters. Example: 043

Note: - At least one of the following information fields is **required** for **I**nsert and **U**pdate functions.

dui convictions is the total number of DUI convictions not appealed.

Field length – Maximum 3 numeric characters.

convictions other is the total number of other convictions not appealed.

Field length – Maximum 3 numeric characters.

dismissed dui is the total number of dismissed DUI cases.

Field length – Maximum 3 numeric characters.

dismissed other is the total number of other dismissed cases.

Field length – Maximum 3 numeric characters.

nolle dui the total number of nol-prossed DUI cases.

Field length – Maximum 3 numeric characters.

nolle other is the total number of nol-prossed other cases

Field length – Maximum 3 numeric characters.

complied is the total number of cases which complied with the law.

Field length – Maximum 3 numeric characters.

Actions:

CAD Message Switch

Forwards the command message to the appropriate Division CAD.

CAD

For **action code** –

Insert – adds a new information record.

Update - modifies an existing information record.

Retrieve - returns existing information record(s).

Delete – removes an existing information record.

A unit history segment will be added for each **I**nsert, **U**pdate, and **D**elete function.

Court Disposition Information file information will be transfer to MIS nightly.

⁶ If **jurisdiction code** is provided, only disposition file entries for **jurisdiction code** within the date range specified will be retrieved. If **jurisdiction code** is not provided, all entries within the date range will be retrieved.

⁷ **jurisdiction code** is required for **I**nsert, **U**pdate and **D**elete functions.

Responses: Response messages returned to the mobile user will depend on **action code**.

Insert –

“**Record Already Exists**” - if court information for that date and jurisdiction already exists.

“**Record Inserted**” - if Insert function is successful.

Update –

“**No Record Found**” - if a record with **start date** and *jurisdiction code* is not found.

“**Record Updated**” - if a record with **start date** and *jurisdiction code* is found and successfully updated.

Retrieve –

When retrieving a specific record by date and jurisdiction code, if a record with **start date** and *jurisdiction code* is found, the response message returned will be in the same format as the initial retrieve command message. All initial field identifiers will be present with the associated data fields containing the command **action code**, **jurisdiction code**, and **start date**, and the retrieved record values for the data information fields. The MCT application is responsible for formatting and displaying all the message information in a usable format to facilitate a subsequent record update action.

When multiple records are retrieved, either by not specifying a jurisdiction code and/or by specifying a date range, the response will be in the form of a text message and only the requested data information fields will be returned. If *jurisdiction code* is not provided, values from all records within the date range will be returned. If *jurisdiction code* is provided, only the values for that jurisdiction, for that date or date range, will be returned. Values from all records within that date range will be totaled and the message will be returned in the following display summary format:

Line 1 – Court Disposition for Badge for start date end date		
Line 2 –	DUI / OTHER	
Line 3 – Convicted, not appealed	102	10
Line 4 – Dismissed	10	8
Line 5 – Nolle Prossed	4	2
Line 6 – Complied With Law		1
Line 7 – TOTALS	116	21

“**No Record Found**” - - if a record with **start date** and *jurisdiction code* is not found.

Delete -

“**No Record Found**” - if a record for **start date** is not found.

“**Record Deleted**” - if record is found and deleted successfully.

Delete by date range will not be allowed.

5.31 Agency Assist Information Command

Purpose: To allow a mobile user to enter, update, retrieve, and delete Agency Assist Information by date.

Command HAIA | AC | action code | SD | start date | ED | end date / SO | aso / PD | apd / OA | aoa

Where:

action code is the information action to execute.

Field length – Required **I**nsert **U**pside **R**etrieve Or **D**elete (ASCII x49, x55, x52, or x44) single alpha character.

start date is the date, or range starting date, of the assist information. Used when inserting, updating, retrieving a single record, or deleting.

Field length – Required 6 numeric characters. Example: 030801

end date is the ending date for a range of assist information. Used only when retrieving a range of records. All records within the range specified will be retrieved.

Field length – Required 6 alphabetic/numeric characters. Example: 030801

Note: - At least one of the following information fields is **required** for **I**nsert and **U**pside functions.

aso is the number of times assistance was given to sheriff's office personnel.

Field length – Maximum 3 numeric characters.

apd is the number of times assistance was given to police department personnel.

Field length – Maximum 3 numeric characters.

aoa is the number of times assistance was given to other agency personnel.

Field length – Maximum 3 numeric characters.

Actions:

CAD Message Switch

Forwards the command message to the appropriate Division CAD.

CAD

For **action code** –

Insert – adds a new information record.

Upside - modifies an existing information record.

Retrieve - returns existing information record(s).

Delete – removes an existing information record.

A unit history segment will be added for each **I**nsert, **U**pside, and **D**elete function.

Agency Assist Information file information will be transfer to MIS nightly.

Responses: Response messages returned to the mobile user will depend on **action code**.

Insert –

“**Record Already Exists**” - if an information record for **start date** already exists.

“**Record Inserted**” - if new information record is inserted is successfully.

Update –

“**No Record Found**” - if a record for **start date** is not found.

“**Record Updated**” - if a record for **start date** is found and updated successfully.

Retrieve –

When retrieving a specific record by date, if a record for **start date** is found, the response message returned will be in the same format as the initial retrieve command message. All initial field identifiers will be present with the associated data fields containing the command **action code** and **start date**, and the retrieved record values for the data information fields. The MCT application is responsible for formatting and displaying all the message information in a usable format to facilitate a subsequent record update action.

When multiple records are retrieved by, specifying a date range the response will be in the form of a text message and only the requested data information fields will be returned. Values from all records within that date range will be totaled and the message will be returned in the following display summary format:

Line 1 –	Agencies Assisted for Badge for start date end date
Line 2 –	Sheriff Dept. <i>10</i>
Line 3 –	Local PD's <i>10</i>
Line 4 –	Other <i>4</i>
Line 5 –	TOTAL <i>24</i>

“**No Record Found**” - if a record for **start date** is not found.

Delete –

“**No Record Found**” - if a record for **start date** is not found.

“**Record Deleted**” - if record is found and deleted successfully.

Delete by date range will not be allowed.

5.32 Drug / Narcotics Information Command

Purpose: To allow a mobile user to enter, update, retrieve, and delete drug/narcotics information by date.

Command **HDIA | AC | action code | SD | start date | ED | end date | AR | arrests / PC | possessions / CS | currency / SV | street value / DC | distributions / WS | weapons / OC | other |**

Where:

action code is the information action to execute.

Field length – Required **I**nsert **U**pdate **R**etrieve or **D**elete (ASCII x49, x55, x52, or x44) single alpha character.

start date is the date, or range starting date, of the assist information. Used when inserting, updating, retrieving a single record, or deleting.

Field length – Required 6 numeric characters. Example: 030801

end date is the ending date for a range of assist information. Used only when retrieving a range of records. All records within the range specified will be retrieved.

Field length – Required 6 alphabetic/numeric characters. Example: 030801

Note: - At least one of the following information fields is **required** for **I**nsert and **U**pdate functions.

arrests is the number of persons arrested.

Field length – 3 numeric characters.

possessions is the number of possession charges placed.

Field length – 3 numeric characters.

currency is the amount of currency seized in whole dollars.

Field length – 7 numeric characters.

street value is the estimated value of drugs seized in whole dollars.

Field length – 7 numeric characters.

distributions is the number of distribution charges placed.

Field length – 3 numeric characters.

weapons is the number of weapons seized.

Field length – 3 numeric characters.

other is the number of other drug related charges placed.

Field length – 3 numeric characters.

Actions:

CAD Message Switch

Forwards the command message to the appropriate Division CAD.

CAD

For **action code** –

Insert – adds a new information record.

Update - modifies an existing information record.

Retrieve - returns existing information record(s).

Delete – removes an existing information record.

A unit history segment will be added for each **I**nsert, **U**pdate, and **D**elete function.

Drug/Narcotics Information file information will be transfer to MIS nightly.

Responses: Response messages returned to the mobile user will depend on **action code**.

Insert –
“Record Already Exists” - if an information record for **start date** already exists.
“Record Inserted” - if the new information record is inserted successfully.

Update –
“No Record Found” - if a record for start date is not found.
“Record Updated” - if a record for start date is found and updated successfully.

Retrieve –
When retrieving a specific record by date, if a record for **start date** is found, the response message returned will be in the same format as the initial retrieve command message. All initial field identifiers will be present with the associated data fields containing the command **action code** and **start date**, and the retrieved record values for the data information fields. The MCT application is responsible for formatting and displaying all the message information in a usable format to facilitate a subsequent record update action. When multiple records are retrieved by specifying a date range, the response will be in the form of a text message and only the requested data information field will be returned. Values from all records within the date range will be totaled and the message will be returned in the following display summary format:

Line 1 – Drug/Narcotics Information for Badge for start date end date	
Line 2 – Persons Arrested	10
Line 3 – Distribution Charges	10
Line 4 – Possession Charges	4
Line 5 – All Other Charges	3
Line 6 – Street Value Seized \$	1,100
Line 7 – Currency Seized \$	5,000
Line 8 – Weapons Seized	10

“No Record Found” - if a record for **start date** is not found.

Delete –
“No Record Found” - if a record for **start date** is not found.
“Record Deleted” - if record is found and deleted successfully.
Delete by date range will not be allowed.

5.33 Mileage Information Command

Purpose: To allow a mobile user to enter, retrieve, update, and delete car mileage information by date or date range.

Command: **HMIA | AC | action code | SD | start date | ED | end date | BM | beginning mileage | EM | ending mileage |**

Where: **action code** is the information action to execute.
Field length – Required **I**nsert **U**ppdate **R**etrieve or **D**elete (ASCII x49, x55, x52, or x44) single alpha character.
start date is the date, or range starting date, of the mileage information.
Field length – Required 6 numeric characters.
end date is the ending date for a range of mileage information. Used only when retrieving a range of records. All records within the range specified will be retrieved.
Field length – Required 6 alphabetic/numeric characters.
beginning mileage only used when updating an existing record.
Field length – Maximum 6 numeric characters.
ending mileage only used when updating an existing record.
Field length – Maximum 6 numeric characters.

Actions:

CAD Message Switch

Forwards the command message to the appropriate Division CAD.

CAD

For **action code** -

Insert – adds a new information record.

Update - modifies an existing information record.

Retrieve - returns existing information record(s).

Delete – removes an existing information record.

A unit history segment will be added for each **Insert Update** or **Delete** function.

Responses:

Response messages returned to the mobile user will depend on **action code**.

Insert –

“Record Already Exists” - if an information record for **start date** already exists.

“Record Inserted” - if the new information record is inserted successfully.

Update –

“No Record Found” - if a record for **start date** is not found.

“Record Updated” - if a record for **start date** is found and updated successfully.

Retrieve –

When retrieving a specific record by date, if a record for **start date** is found, the response message returned will be in the same format as the initial retrieve command message. All initial field identifiers will be present with the associated data fields containing the command **action code** and **start date**, and the retrieved record values for the data information fields. The MCT application is responsible for formatting and displaying all the message information in a usable format to facilitate a subsequent record update action.

When multiple records are retrieved by specifying a date range, the response will be in the form of a text message. Values from all records within the date range will be totaled and the message will be returned in the following display summary format:

Line 1 –	Mileage Information for Badge for start date-end date			
Line 2 –	Date	Beginning Mileage	Ending Mileage	Total
Line 3 –	030101	54,000	54,365	365
Line 4 –	030201	54,365	55,000	635
Line 5 –	Total Mileage			1000

“No Record Found” - if a record for **start date** is not found.

Delete –

“No Record Found” - if a record for **start date** is not found.

“Record Deleted” - if record is found and deleted successfully.

Delete by date range will not be allowed.

6.0 VCIN Query Commands

VCIN query commands supported by the Mobile Command Interface are defined in this section. All VCIN query command sequences are originated by the MCT user. The message command-code and data elements provide the CAD Message Switch with a query Function and search Criteria. The CAD Message Switch will transform these commands into valid Inquiry messages and forward them to VCIN. The mobile user is responsible for understanding the specific requirements of each Inquiry type, with respect to Criteria content and format.

In addition to the command-initiated inquiries, a freeform query capability is also supported. Freeform query messages will be validated by the CAD Message Switch only to detect and reject restricted Criminal History commands. All unrestricted commands will be forwarded directly to

VCIN. Syntax error checking will be performed by either VCIN or subsequent systems. The command format of the freeform query is described at the end of this section.

All VCIN inquiry messages from users for whom the CAD system is maintaining a History File are also sent to their currently assigned Division CAD. With the exception of criminal history checks, the involvement of the Division CAD is only to record the inquiry message in the appropriate history file. No response to this action will be returned to the mobile user by the Division CAD system. VCIN response messages for a given query will vary in number, length, and order of transmission. Depending on the query type, a separate, and information specific, response may be generated by multiple systems. Because the CAD Message Switch will forward response messages on a first received, first sent basis, the order of receipt at the mobile system may be indeterminate.

The initial response returned to the mobile user, for all queries successfully sent to VCIN, will be “**ACCEPTED**”. The mobile user will then know that VCIN has accepted the query for processing. The CAD Message Switch will examine VCIN inquiry response messages for Wanted/Stolen indicators. If either status is indicated and where applicable, a copy of the response message will be sent to the mobile user’s Division CAD to alert their controlling dispatcher. If the mobile user is not currently logged on duty in their Division CAD, the response message will be sent to all terminals in the DPST dispatch group of their division CAD. Due to the magnitude of possible responses, definitions for these message formats will not be provided by this document. The mobile system should accommodate the storage and display of multiple, 80 characters per line by an indeterminate number of lines, response messages. The maximum data character length of a response message is 14,700 bytes⁸.

The ensuing tables define the purpose, format, data elements, and system actions for each query command. Data element descriptions include the field length, data type and in some cases, an example. Conventions used in the query command description tables are the same as those in section 5

6.1 Article Inquiry Command

Purpose: To spawn a query of the NCIC Article File for stolen, recovered, or lost articles.

Command HVAI | AT | **article type** | SN | **serial number** |

Where: **article type** is an Article Type Code from the NCIC 2000 Article Name Dictionary.
Field length – Maximum 7, minimum 4 alphabetic characters. Example: DCOMPUT
serial number is the serial number or owner-applied-number of the article.
Field length - Maximum 20 alphabetic/numeric characters.
Example: ABC1234DE5677

⁸ 14,700 bytes is derived from the NLETS specified maximum message length.

Actions: **CAD Message Switch**
Formats the query message and sends it to VCIN.
Sends a message copy to the appropriate Division CAD.
Forwards all VCIN response messages to the mobile user.
If wanted/stolen response is received forwards response to controlling dispatcher with information on what unit ran the query.

CAD
Creates a Unit History segment containing the query message. An Incident History segment is also written if the unit is currently assigned.
If wanted/stolen response received from message switch, displays urgent message indicator. Message will consist of the unit who initiated the query and the response information.

Responses: Alphanumeric text message of indefinite length.

6.2 **Gun Inquiry Command**

Purpose: To spawn a query of the NCIC Gun File for stolen, recovered or lost guns.

Command **HVGI | SN | serial number | GM | make / GC | caliber |**

Where: **serial number** is the serial number of the gun.
Field length - Maximum 11 alphabetic/numeric characters.
Example: R7102733487
make is the NCIC Gun Data Code for the gun manufacturer.
Field length – Maximum 3 minimum 2 alphabetic/numeric characters.
Example: REM
caliber is a NCIC Gun Data Code for the gun cartridge type.
Field length – Maximum 4 numeric characters. Example: 270

Actions: **CAD Message Switch**
Formats the query message and sends it to VCIN.
Sends a message copy to the appropriate Division CAD.
Forwards all VCIN response messages to the mobile user.
If wanted/stolen response is received forwards response to controlling dispatcher with information on what unit ran the query.

CAD
Creates a Unit History segment containing the query message. An Incident History segment is also written if the unit is currently assigned.
If wanted/stolen response received from message switch, displays urgent message indicator. Message will consist of the unit who initiated the query and the response information

Responses: Alphanumeric text message of indefinite length.

6.3 Boat Inquiry Command

Purpose: To spawn a query of NCIC and various state agency Boat Files for stolen, recovered or lost and registration information.

Command **HVBI | RN | registration number | HN | hull number | RS | registration state |**

Where: Notes: - Inquiries must include either **RN** or **HN**.
If **RN** is provided and the registration is an out-of-state number, **RS** is required.

registration number is the boat registration number including the two character state code prefix.

Field length - Maximum 8 alphabetic/numeric characters without spaces.

Example: FL1342YB

hull number is the Hull Identification Number assigned by the boat manufacturer.

Field length – Maximum 20 alphabetic/numeric characters.

Example: SERCB1234E901

registration state is the NCIC State Code for the state of registry.

Field length – Required 2 alphabetic characters.

Example: FL

Actions: **CAD Message Switch**

Formats various VCIN query message(s) based on the **required** elements provided....

If **registration number** is provided, queries are generated for NCIC and, Virginia Department of Game and Inland Fisheries (DGIF) or indicated out-of-state.

If **hull number** is provided, queries are generated for NCIC, Virginia DGIF and, if **registration number** and **registration state** are provided, for indicated out-of-state.

Sends a message copy to the appropriate Division CAD.

Forwards all VCIN response messages to the mobile user.

If wanted/stolen response is received forwards response to controlling dispatcher with information on what unit ran the query.

CAD

Creates a Unit History segment containing the query message. An Incident History segment is also written if the unit is currently assigned.

If wanted/stolen response received from message switch, displays urgent message indicator. Message will consist of the unit who initiated the query and the response information

Responses: Alphanumeric text message of indefinite length.

6.4 Vehicle Inquiry Command

Purpose: To spawn various queries of NCIC, VCIN and/or, Virginia DMV or out-of state files for registration and lien, stolen vehicle, and wanted/missing persons information.

Command **HVVI | LN | license number | *LS* | license state | *LY* | license year | *LT* | license type | *LI* | lien information | *PC* | purpose |**
or:
HVVI | VN | vehicle identification number | *LS* | license state (or) *SG* | state group | *LI* | lien information | *PC* | purpose |

Where: Note: - *LI* is only valid for Virginia registrations.

license number is the vehicle license plate number.

Field length - Maximum 8 alphabetic/numeric characters. Example: YB1342N

license state⁹ is the NCIC State Code for the license plate issuing state.

Field length – Required 2 alphabetic characters. Example: NJ

state group is a code indicating which group of states to check the VIN in. **SG** only applies to VIN queries.

Field length – Required 2 alphabetic characters. Valid codes and regional groups are:

BR Border States (MD WV KY TN NC)

DC D.C. Metro (DC MD VA)

NR North Eastern (DE PA NJ NY CT)

NE New England (RI MA NH VT ME)

SE South Eastern (SC GA FL)

SO Southern (AL MS LA AR)

ME Central (OH IN IL MO)

MW North Central (MI IA WI MN)

PL Plains (ND SD NE KS OK)

MN Mountain (MT WY CO UT ID)

SW South Western (TX NM AZ NV)

WE Western (CA OR WA AK HI)

license year is the license plate year of expiration.

Field length - Required 4 numeric characters. Example: 2003

license type¹⁰ is a NCIC Vehicle Data Code for the license plate type.

Field length – Required 2 alphabetic characters. Example: PC

vehicle identification number is the vehicle manufacturer assigned number.

Field length – Maximum 20 alphabetic/numeric characters.

Example: 2G4WF5510Y9985912

lien information indicates that lien information is requested.

...Field length – Required **Y** (ASCII x59) single alpha character.

FOI exempt if present, **FOI exempt** indicates that the inquiry is to be exempt from release under the Freedom of Information Act.

...Field length – Required **C** (ASCII x43) single alpha character.

⁹ If *license state* is not provided, the CAD Message Switch will default this element to **VA**

¹⁰ If *license type* is not provided, the CAD Message Switch will default this element to **PC**

Actions:

CAD Message Switch

Formats various VCIN query message(s) based on the **required** elements provided....

If **LN** is provided and *license state* is **VA**¹¹, queries are generated for VCIN and Virginia DMV.

If **LN** is provided and *license state* is not **VA**, queries are generated for NCIC and, the indicated out-of-state registration information.

If **SG** is provided, query is generated for Virginia DMV, all other states in the indicated group, and for NCIC.

If **VN** is provided queries are generated for VCIN, NCIC, and Virginia DMV or the indicated out-of-state registration information.

If **LI** is provided, a lien query will be generated for Virginia DMV registration and lien information. A second query will be generated to obtain wanted/stolen information.

If **FE** is indicated, a field will be added to the end of the query string to signal VA DMV not to release information about running this query.

Provides *license state* with a default of **VA** if the element isn't provided.

Provides *license year* with a default of the current year if the element isn't provided.

Provides *license type* with a default of **PC** if the element isn't provided and *license state* is other than **VA**.

Sends a message copy to the appropriate Division CAD.

Forwards all VCIN response messages to the mobile user.

If wanted/stolen response is received forwards response to controlling dispatcher with information on what unit ran the query.

CAD

Creates a Unit History segment containing the query message. An Incident History segment is also written if the unit is currently assigned.

If wanted/stolen response received from message switch, displays urgent message indicator. Message will consist of the unit who initiated the query and the response information

Responses:

Alphanumeric text message of indefinite length.

¹¹ Either specified as or defaulted to.

6.5 Person Inquiry Command

Purpose: To spawn various queries of the Virginia DMV or out-of-state drivers license file for license status information, to request a Virginia driving record transcript or by mail, and conditionally, to query NCIC and VCIN wanted/missing, criminal history and other files.

Command **HVPI | LN | license number | LS / license state / L2 / license state2 / SG / state group / TR / transcript request / CN | code or badge / JC / jurisdiction / FE / FOI exempt**
or:
HVPI | SN | name | BD | birth date | SS | gender | SR / race / LS / license state / L2 / license state2 / SG / state group / TR / transcript request / CN | code or badge / JC / jurisdiction / HP / criminal history purpose / FE / FOI exempt

Where:

Notes: - Inquiries must specify **LN** or, **SN**, **BD**, and **SS**.

HP requires submission of **SN**, **BD**, and **SS**.

license number is the subjects driver's license number.

Field length – Maximum 20 alphabetic/numeric characters.

Example: T19384756

license state is the NCIC State Code for the OLN issuing state.

Field length – Required 2 alphabetic characters. Example: MA

license state2 is an optional NCIC State Code for an additional OLN issuing state.

Field length – Required 2 alphabetic characters. Example: RI

transcript request is an indicator that specifies a transcript of a subjects driving record is to be returned in a response message.

Field length – Required **Y**es or **N**o (ASCII x59 or x4E) single alphabetic character.

code or badge is an indicator to signify that a transcript of a subjects driving record is to be mailed to the inquiring Unit.

Field length – Required **Y**es or **N**o (ASCII x59 or x4E) single alphabetic character.

jurisdiction is the County or City jurisdiction code for the Commonwealth Attorney that is to be mailed a copy of the subjects driving transcript.

Field length – Required 3 numeric characters. Example: 043

name is the subjects name in the format: **last,first ^ middle initial**

Field length - Maximum 35 including alphabetic, comma, and space characters.

Example: Jones,John J

birth date is the subjects date of birth in the format of: YYYYMMDD

Field length – Required 8 numeric characters. Example: 19430926

gender is the sex of the subject .

Field length – Required **M**ale, or **F**emale (ASCII x4D or x46) 1 alphabetic character.

state group optional state group to run query in.

Field length – Required 2 alphabetic characters. Valid codes and regional groups are:

BR Border States (MD WV KY TN NC)

DC D.C. Metro (DC MD VA)

NR North Eastern (DE PA NJ NY CT)

NE New England (RI MA NH VT ME)

SE South Eastern (SC GA FL)

SO Southern (AL MS LA AR)

ME Central (OH IN IL MO)

MW North Central (MI IA WI MN)

PL Plains (ND SD NE KS OK)

MN Mountain (MT WY CO UT ID)

SW South Western (TX NM AZ NV)

WE Western (CA OR WA AK HI)

criminal history purpose is the NCIC purpose code indicating the reason for the criminal history request.

Field length – Required **C**, **F**, or **J**, (ASCII x43, x46, or x4A) single alpha character.

FOI exempt when present, **FOI exempt** indicates that the inquiry is to be exempt from release under the Freedom of Information Act.

....Field length – Required **C** (ASCII x43) single alpha character.

Actions:

CAD Message Switch

Formats various VCIN query message(s) based on the **required** element(s) provided....

If **LN** is provided and **license state** is **VA**¹² or no state is provided, queries are generated for VCIN and Virginia DMV.

If **LN** is provided and **license state** is **not VA**, queries are generated for NCIC and the indicated state.

If **LN** is provided and multiple states are provided using the **LS, L2** or **SG**, queries are generated for NCIC and the state(s) indicated.

If **SN, BD**, and **SS** are provided, queries are generated for VCIN, NCIC and, Virginia DMV and other state(s) as indicated by **LS, L2**, and/or **SG**.

If **TR** is provided, a query will be sent to VA DMV to get a transcript reply.

If **CN** is provided, a query will be sent to VA DMV to get a transcript mailed to the requesting unit.

If **JC** is provided, CCA and COJ fields will be added to the transcript query to indicate that a copy should be mailed to the Commonwealth Attorney of **jurisdiction**.

If **HP** is provided, a QH query will be formatted and sent to the unit's assigned CAD to be run. The response will be returned to the requesting unit's controlling dispatcher.

If **FE** is provided a field will be added to the VA DMV query to indicate that the running of this query not be released.

Provides **license state** with a default of **VA** if the element isn't provided.

Sends a message copy to the appropriate Division CAD.

Forwards all VCIN response messages to the mobile user.

CAD

Creates a Unit History segment containing the query message. An Incident History segment is also written if the unit is currently assigned.

If QH query received, CAD determines requesting unit's controlling dispatcher; the VCIN terminal assigned to the dispatcher and sends the QH query. The reply returns to the controlling dispatcher.

Responses: Alphanumeric text message of indefinite length.

6.6 VCIN Freeform Command

Purpose: To provide the capability to enter VCIN, NCIC and NLETS commands in command line form. This freeform style requires a familiarity with VCIN, NCIC, and NLETS inquiry format requirements.

Command: HVFC | VC | command |

Where: **command** - is the free form command string to send to VCIN, NCIC or NLETS.
Field length – maximum 150 alphanumeric characters.

Actions: **CAD Message Switch**

Examines message string to ensure that prohibited criminal history commands are not present. Prohibited commands are QR, QH, AQ, AR

Forwards the message to VCIN. Sends a message copy to the appropriate Division CAD.

Forwards all VCIN response messages to the mobile user.

CAD

Creates a Unit History segment containing the freeform query. If the unit is currently assigned to an incident, an Incident History segment will also be written.

Responses: Alphanumeric text message of indefinite length.

¹² Either specified as, or defaulted to.

Appendix A
Sample Responses Messages

A-1. Unit History

Command: UH 1442

Response:

Unit History For Unit: 1442 From: 03/19/01 21:00:01 To: 03/20/01 11:44:21

*** New Date: 03/19/01 ***

```
/2100 (*****) LOGON #1219 MATTHEWS,MTP HUELL W JR
DPST/010101A
/2254 (5856D ) 1041 #1219 MATTHEWS,MTP HUELL W JR
DPST/010101A
*** New Date: 03/20/01 ***
/0000 (5869D ) MISC ,AREA OFFICE
/0000 (5856D ) MISC ,1037 AREA OFFICE
/0014 REMINQ QL 1442 @WA3179.NC
/0025 DISPOS #DIV101052848 T/TS [SB 95 AT 100MM ,042] .YNL3008
,BLU FORD
/0025 REMINQ #DIV101052848 QV 1442 YNL3008 VA PC
0027 REMINQ #DIV101052848 QO 1442 T67110022.Y
/0031 CLEAR #DIV101052848 D/UTS
0040 DISPOS #DIV101052852 T/TS [SB 95 AT 100MM ,042] ,NO MORE IN
FORMATION
/0043 REMINQ #DIV101052852 QL 1442 @9MR824.KY
44 REMINQ #DIV101052852 QVIN 1442 1FUVDXYB5LH383213.KY
45 REMINQ #DIV101052852 QN 1442 PICKETT.RICHARD.L.19570128.M.KY
46 #DIV101052852 QVIN 1442 1FUVDXYB5LH383213.KY
53 (5935D ) CLEAR 52 D/UTS
/0055 DISPOS #DIV101052853 T/TS [SB 95 AT 99MM ,042] .LEEANNS.PA
,GRN PONTIAC
55 53 QV 1442 LEEANNS PA 2001 PC
56 MISC 53 ,AT 99.5MM
100 (5856D ) REMINQ 3 QN 1442 MCILHENNEY.LEE.ANN.19790608.F.PA
/0106 CLEAR #DIV101052853 D/UTS
116 DISPOS 60 T/TS [SB 95 AT 100MM ,042] .KWC10P.NJ
,MAROON TOYOTA
116 60 QV 1442 KWC10P NJ 2001 PC
119 60 QL 1442@KWC10P.NJ
120 REMINQ 60 QN 1442 JOHNSON.OTIS.P.19790318.M.NJ
120 REMINQ 60 QO 1442 J61736127703792.NJ
/0122 MISC #DIV101052860 ,1037 SB 95 AT 100
128 CLEAR 60 D/UTS
135 DISPOS 64 T/TS [NB 95 AT 101MM ,042] .YNU1950
,SILVER FD EXPLORER
35 REMINQ 64 QV 1442 YNU1950 VA PC
41 REMINQ 4 QN 1442 LEE.MICHELLE.MARIE.19810428.F.MD
/0144 CLEAR #DIV101052864 D/UTS
201 DISPOS 7 T/TS [SB 95 AT 100MM ,042] .KS9303
,NO MORE INFORMATION
201 7 QV 1442 KS9303 VA PC
202 7 QL 1442@YKS9302
206 REMINQ 7 QN 1442 JABBIE.SAIDU.19671102.M.MD
207 REMINQ 7 QOT 1442 D24200073564
207 REMINQ 7 QO 1442 D24200073564.Y
/0209 REMINQ #DIV101052867 QO 1442 10012825.NC
210 7 QN 1442 COOKS.AHMAL.JAHMAL.19760415.M.NC
212 MISC 7 ,SUSP
218 ONTCT 7 Contact in 15 Minutes
2 CLEAR D/UTS
/0223 REMINQ QL 1442@WA3179.NC
24 QN 1442 GRISSOM.GEORGE.WARREN.19461229.M.N
C
29 (5935D ) DISPOS 71 T/TS [SB 95 AT 100MM ,042] ,T/T
```

30			71 QN 1442 GARAY.JOHN.ALBERT.19571009.M.FL
35	(5856D)	CLEAR	71 D/UTS
308		MISC	,1037 AREA OFFICE
346	(5935D)	DISPER	79 T/10460 [NB 95 SO RT 54 EXIT 92 ,042]
401	(5856D)	ROTREQ	79 TOW ELLI 12 ELLIOTT'S TOWING SERVIC E 97982860
402		REMINQ	79 QL 1442 @NWJ8397.NC
402		MISC #DIV101052879	,FOUR SOULS ONBOARD
403		OTENR #DIV101052879	ELLI
/0405		CLEAR #DIV101052879	D/MOA WRK
405		DISPER	4 T/105E 16.8MM ,016]
41		MISC	4 ,1037 SB 101
411		CHANGE	4 LOC: SB 95 AT 116.8MM ,016 --> SB 95 AT 1 01.5MM ,016
411		ONSCNE	4
11		CHGLOC	4 [DIV]
/0430		ONSCNE #DIV101052874	
33		CONTRL	G/G108
34		CLEAR	4
505		MISC	,1037 AREA OFFICE
509		DISPOS	85 T/T'S [SB 95 AT 100MM ,042] ,NO MORE IN FORMATION
513		REMINQ	85 QN 1442 MOODY.DARREN.LEE.19671127.M.NC
514		LEAR	85 D/UTS
/0520		DISPOS #DIV101052889	T/T'S [SB 95 AT 100MM ,042] ,NO MORE IN FORMATION
52		REMINQ	89 QL 1442@YYF5027
525		REMINQ	89 QO 1442 437589221.Y
534		LEAR #DIV101052889	D/UTS
550		REMINQ	QN 1442 RODRIGUEZ.EULOGIO.19420922.NJ
50		REMINQ	QN 1442 RODRIGUEZ.EULOGIO.19420922.M.NJ
53		REMINQ	QN 1442 RODRIGUEZ.EULOGIO.JR.19420922.M.NJ
/0553		REMINQ	QN 1442 RODRIGUEZ.EULOGIO.19420922.M.NJ
54			QO 1442 R60942450009422.NJ
612		MISC	,1037 101
614			98 LITTLE RED
614			98 HONDA
614			98 @BX798Y.NY
618			98 QN 1442 CRUZ.CLEMENTE.19710202.M.NY
619		REMINQ	98 QO 1442 468188735.NY
619		MISC #DIV101052898	,FALSE HIT
625		CONTCT #DIV101052898	Contact in 10 Minutes
628		CLEAR #DIV101052898	D/UTS
647	(5972D)		THOMPSON.VIRGIL.ANTHONY.19670707.M .MD
48		REMINQ	QO 1442 T5612843067539.MD
51		REMINQ	QN 1442 BRAGG.DARIN.W.19740326.M.MD
/0653		REMINQ	QN 1442 BRAGG.DARIN.W.19740326.M.IN 1950196171.IN
57			
700			QO 1442 1950196171.IN
70		LOGOFF	

A-2. Incident History

Command: IH #DIV101052338

Response:

Incident History for: #DIV101052338 Xref: #DIV101052340

Case Numbers: \$01211045

Entered 03/19/2001 08:46:48 BY D103 CASH
Dispatched 03/19/2001 08:50:36 BY D101 5582D
Enroute 03/19/2001 08:50:36
Onscene 03/19/2001 08:55:06
Closed 03/19/2001 16:06:51

Initial Type: 1050D Final Type: 1050F (VEHICLE CRASH FATALITY)
Initial Priority: 2 Final Priority: E
Disposition: ACR UTS UIN 102 Offense: Source: 9 Primary Unit: 736

Duty Post: 014401 SAC:

Group: G144 Beat: Map Page:

Loc: RT 30 AT RT 652,016 (NV)

Loc Info: RT 652 IS SIGNBOARD RD

Name: 911

Addr: Phone:

/0846 (CASH) ENTRY 2 TT,NO PI'S,
/0847 (2565D) HOLD

/0848 (4277D) CHANGE TYP: 1050D --> 1050I
RSP: T --> T
PRI: 2 --> E

/0848 SUPP TXT: 1052 IS 1017
/0850 (5582D) DISPER 593 #4878 BURTON,TII ANDREW J
/0850 ASSTER 610 #4613 COX,TPR JJ
/0852 (2565D) \$CROSS #DIV101052340
/0852 DUP #DIV101052340
/0852 DUP NAM: HANOVER COUNTY
PHO: 8045376000
53 (5582D) MISC ,163 HAS BEEN NOTIFIED AND I HAVE 042 UNITS GOING
UNTIL I CAN GET A 016 UNIT

/0855 ONSCNE 593
/0855 MISC 593 ,RT 30 IS BLOCKED DIRECTING TRAFFIC AROUND IT ON
HE SHOULDER
6 CHANGE LOC: SIGNBOARD RD/RT 30,016 --> RT 30 AT RT 652,
016,
LOCI: --> RT 652 IS SIGNBOARD RD
7 (2565D) ONSCNE 610
900 CHANGE LOC: RT 30 AT RT 652,016 --> RT 30 AT RT 652,016
,
TYP: 1050I --> 1050F
/0900 MISC ,163 HAS BEEN ADVISED
902 MISC ,392 HAS BEEN ADVISED
90 ASSTER 599 [RT 30 AT RT 652,016]
#1784 MCLENNAN,MTP LELAND H JR
0? ASSTOS 927 [RT 30 AT RT 652,016]
#5129 DZIEDZIC,TII CHRISTOPHER A
/0909 ASSTER 736 [RT 30 AT RT 652,016]
#5263 COLLINS,TPR TERENCE P
9 ASSTER 1577 [RT 30 AT RT 652,016]
#4003 MACFARLAND,TII JAMES L
/0910 PRIU 736
12 CONTACTING THE ME
13 ASSTOS 392 [RT 30 AT RT 652,016]

/0913	ASSTER	686	#3649 STILES,SGT KERRY L [RT 30 AT RT 652,016]
/0913	\$PREMPT	686	#5624 BUSH,TPR GEOFFREY T
15		68	
			624 BUSH,TPR GEOFFREY T
15		849	
			5634 EDWARDS, TPR MASON G ,ON 1046 BY MISTAKE
5	MISC	686	
20	\$PREMPT	610	
21	MISC		,392 HAS BEEN ADVISED
/0922	(5582D) MISC		,538 NO ANSWER AND 1287 HAS AN APPOINTMENT TODAY, HE CANT MAKE IT
/0922	MISC		,PAGED 1458 FOR RECON
23	(2565D) MISC		,5092 HAS BEEN ADVISED
24	CONTCT	392	Contact in 30 Minutes
/0924	CONTCT	593	Contact in 30 Minutes
24	CONTCT	927	Contact in 30 Minutes
/0925	ONSCNE	736	
2	CLEAR	1577	
8	MISC		,STORKE FUNERAL HOME WILL BE NOTIFIED
8	ASSTER	1458	[RT 30 AT RT 652,016]
/0928	(5582D) MISC		#3007 WEYANT,STP RICHARD A ,1564 IS NOT AVAIL
8	(2565D) CLEAR	849	
9	ASSTER	5092	[RT 30 AT RT 652,016]
			#5709 GELLER,PIO CORINNE N
9	ONSCNE	686	
32		736	
32	(5582D) ASSTER	518	#3474 ELMORE,STP JAMES E ,FOR RECON
33			335 WAS NOTIFIED FOR 518
35	(2565D) CONTCT	686	Contact in 30 Minutes
/0943	ROTREQ	392	TOWL LHIL 441 HILLCREST GARAGE 918044483300
44	ROTRAK	392	TOWV LHIL ,NOT AVAIL
44	\$ROTRAK	392	TOW LN1 441 #1 TOWING COMPANY INC 918044489898
45	ROTRAK	392	LN1 ,LN1 1017
47	ROTRAK	392	TOWL LBUD 441 BUDS TOWING 918044484500
/0949	ROTRAK	392	LBUD ,LBUD 1017
49	ONSCNE	5092	
52	ONSCNE	599	
56	ONSCNE	1458	
/1006	REMINQ	927	QV 927 1HSRDG2R4JH547962
1007	EMINQ	927	QV 927 79562
1007	CONTCT	593	Contact in 30 Minutes
/1007	CONTCT	599	Contact in 30 Minutes
1007	CONTCT	686	Contact in 30 Minutes
100	CONTCT	736	Contact in 30 Minutes
/1007	CONTCT	1458	Contact in 30 Minutes
1007	CONTCT	5092	Contact in 30 Minutes
1022	CONTCT	392	Contact in 30 Minutes
1030	CLEAR	392	
1031	MISC		,STORKE 1023 AND VDOT AND 1051'S HAVE ROAD BLOCKE D
38	CONTCT	593	Contact in 30 Minutes
38		9	
38		686	
38		73	

38		927	
38			
39			
46	LEAR	927	
48		593	
58	REMINQ	736	QO 736 231849764
/1109	MISC		,1731 FROM AREA 2 WILL TRY TO LOCATE NEXT OF KIN
109		9	
109		686	
110		1458	
110		5092	
110	LEAR	5092	
136		736	
144	LEAR	686	
145	HGLOC	736	[AREA]
201	ASNCAS		\$01211045
241	CHGLOC	599	[BUDS]
241	CONTCT	1458	Contact in 20 Minutes
306	ONSCNE		
315	ONSCNE	736	
319	MISC		,REF KENNETH KING,INFO FROM 1733,PHS ADDRESS IS 2 302 COAN STAGE RD,HEATHSVILLE VA AND THEIR PHONE NUMBER IS 580-4736 AND NO ONE IS THERE
344			
348	MISC		,U 1733 HAS MADE NOTIFICATION WITH SUBJECTS' WIFE
35	LEAR	599	
358	CONTCT	1458	Contact in 20 Minutes
402	(5582D) GDISPO	736	DSP: ACR.UTS.UIN.WRK ,X2
433	(2565D) CONTCT	736	Contact in 30 Minutes
444	(5535D) OK	1458	
504	OK	736	
/1507	CLEAR	1458	
/1507	CLEAR	518	
606	LEAR		DSP: ACR UTS UIN --> ACR WRK 102
606	CLOSE	736	

A-3. Unit Roster

Command: UR G101

Response:

Unit Roster for D101 Requested on 03/20/01 11:45:49

Unit	Type	Group	Date	Time	Id	Name	Dpst
214	S	G101	03/20/01	05:00	#1969	AUSTIN,FSG GEORGE W JR	010101
346	S		03/20/01	05:00	#3790	MILLNER,SGT M WADE	010101
392	S		03/20/01	05:00	#3649	STILES,SGT KERRY L	010101
593	T		03/20/01	05:00	#4878	BURTON,TII ANDREW J	010101I
610	T		03/20/01	05:00	#4613	COX,TPR JJ	010101J
783	T		03/20/01	05:00	#4625	JONES,TII TONY B	010101A
>849	T		03/20/01	05:00	#5634	EDWARDS, TPR MASON G	010101A
927	T		03/20/01	05:00	#5129	DZIEDZIC,TII CHRISTOPHER	A010101C
+>1287	T		03/20/01	08:42	#2027	REED,MTP DONALD R	010101A
>1417	T		03/20/01	05:00	#5349	MAYER,TPR ERIC D	010101C
+>1538	T		03/20/01	06:58	#5055	WELLS,TII MITCHELL M	
>1543	T		03/20/01	05:00	#5672	WILLIAMS,TPR BEN D	010101C
>1617	T		03/20/01	05:00	#3884	HARRISON,STP THOMAS S	010101C
1670	T				4315	LEWIS,TII DAVID A	A
>1679	T		03/20/01	06:53	#5175	NEILSON,TII ELLEN M	
1717				10:16	#5781	PATTERSON,TPR MATTHEW T	

A-4. Unit Status

Command: US G101

Response:

Unit Status for G101 Requested on 03/20/01 11:46:23

Unit	Status	Group	Time	Incident	Type	Location
214	AVL	G101	07:15			
346	AVL		07:25			ON-CALL
392	AVL		06:59			
593	AVL		10:43			
610	AVL		08:23			
+783	ENR		11:46	#DIV101053130	1093	NB 95 NO DOSWELL
>849	OUT ONS		08:36		CTG	043
927	SPC		08:03			CO043
+>1287	OUT ONS		08:42	#DIV101053010	WZ	W BROAD ST/GASKI
>1417	OUT ONS		08:38		CTG	043
+>1538	OUT ONS		06:58	#DIV101052915	WZ	VDOT SHORTPUMP,0
>1543	OUT ONS		08:35		CTG	043
>1617	OUT ONS		08:27		CTG	043
1670			11:23			
>1679	OUT ONS		09:43		SA	
1717			11:35			

Appendix B

NCIC/VCIN & NLETS Query Requirements

This information is furnished to use as a reference for programming the VCIN/NCIC inquiries submitted by the mobile computer query forms.

HVVI – Query Vehicle Mask

- **Queries possible from this mask** –
QV by license, QV by VIN, QV by license for lien, QV by VIN for lien, RQ by license, RQ by VIN
- **HVVI field identifiers** –
LN license plate, LS license state, LY license year,
LT license type, LI lien information, FE Freedom of Information Exemption, VN
VIN number, SG state group

- **Defaults** –

If no state (LS) is sent – default to VA

If no year is sent (LY) – default to current year

If no type is sent (LT) – default to PC

- **Possible Query Field Combinations and VCIN Query format** –

- **By License -**

From Mobile – LN ABC123

VCIN Query – QV..LIC/ABC123.LIS/VA.LIT/PC

From Mobile – LN ABC123 LY 2004

VCIN Query – QV..LIC/ABC123.LIS/VA.LIY/2004.LIT/PC

From Mobile – LN ABC123 FE C

VCIN Query – QV..LIC/ABC123.LIS/VA.LIT/PC.PUR/C

From Mobile – LN ABC123 LI Y

VCIN Query – QV..LIC/ABC123.LIS/VA.LIT/PC

and QV..LIC/ABC123.LIS/VA.LIT/PC

From Mobile – LN ABC123 LS NC

VCIN Query – QV..LIC/ABC123.LIS/NC.LIT/PC

and RQ..NC.TXTLIC/ABC123.LIY/2002.LIT/PC

- **By VIN –**

From Mobile – VN 2G4WF5510Y9985912

VCIN Query – QV..VIN/2G4WF5510Y9985912

From Mobile – VN 2G4WF5510Y9985912 LI Y

VCIN Query – QV..VLN/2G4WF5510Y9985912

From Mobile – VN 2G4WF5510Y9985912 FE Y

VCIN Query – QV..VIN/2G4WF5510Y9985912.PUR/C

From Mobile – VN 2G4WF5510Y9985912 LS NC

VCIN Query – QV..VIN/2G4WF5510Y9985912

and RQ..NC.TXTVIN/2G4WF5510Y9985912

From Mobile – VN 2G4WF5510Y9985912 SG BR

VCIN Query – QV..VIN/2G4WF5510Y9985912

and RQ..MD,WV,KY,TN,NC.TXTVIN/2G4WF5510Y9985912

- **Incorrect Query Field Combinations** –

LN and VN can not be supplied together

LI cannot be run in any other state besides VA.

FE can not be used in any other state besides VA
SG can not be used when LN is provided

HVPI – Query Person Mask

- **Queries possible from this mask –**
QD by driver’s license number, QD by name,
QDP by name
DQ by driver’s license number, DQ by name,
DNQ by name
QT by driver’s license number, QT by name,
QH by name (run by and returned to local CAD,
- **HVPI field identifiers –**
LN license number, LS license state, L2 second state,
SG state group, TR transcript request, CN code,
JC jurisdiction, FE C,
SN name, BD date of birth, SS gender, SR race,
HP criminal history purpose request
- **Defaults –**
If no state (LS) is sent – default to VA
- **Possible Query Field Combinations and VCIN Query format –**
By Operator’s License Number-
From Mobile – LN 123456789
VCIN Query – QD..OLN/123456789
 Secondary Query when response received –
 QW..NAM/resp name.DOB/resp dob.SEX/resp sex.RAC/U
From Mobile –LN 123456789 LS NC
VCIN Query – DQ..NC.TXTOLN/123456789
From Mobile –LN 123456789 LS NC L2 VA
VCIN Query – DQ..NC.TXTOLN/123456789
 and QD..OLN/123456789
 Secondary Query when response received –
 QW..NAM/resp name.DOB/resp dob.SEX/resp sex.RAC/U
From Mobile –LN 123456789 CN Y
VCIN Query – QD..OLN/123456789.COB/code #
 Code # found in SEC file on Switch
 Secondary Query when response received –
 QW..NAM/resp name.DOB/resp dob.SEX/resp sex.RAC/U
From Mobile – LN 123456789 CN Y JC 111
VCIN Query – QD..OLN/123456789.COB/code#.CCA/Y.COJ/111
 Secondary Query when response received –
 QW..NAM/resp name.DOB/resp dob.SEX/resp sex.RAC/U
From Mobile –LN 123456789 TR Y
VCIN Query – QT..OLN/123456789.REQ/name
 Name found in SEC file on Switch
 Secondary Query when response received –
 QW..NAM/resp name.DOB/resp dob.SEX/resp sex.RAC/U

By Name, DOB, and Sex –

From Mobile – SN DOE,JOHN D BD 19620611 SS M
VCIN Query – QD..NAM/DOE,JOHN D.DOB/19620611.SEX/M
From Mobile – SN DOE,JOHN D BD 1962,, SS M
VCIN Query – QDP..NAM/DOE,JOHN D.DOB/1962,,.SEX/M
From Mobile – SN DOE,JOHN D BD 19620611 SS M LS NC
VCIN Query – QD..NAM/DOE,JOHN D.DOB/19620611.SEX/M
and DQ..NC.TXTNAM/DOE,JOHN D.DOB/19620611.SEX/M
From Mobile – SN DOE,JOHN D BD 19620611 SS M SG DC
VCIN Query – QD..NAM/DOE,JOHN D.DOB/19620611.SEX/M
and DQ..DC,MD.TXTNAM/DOE,JOHN.DOB/19620611.SEX/M
From Mobile – SN DOE,JOHN D BD 19620611 SS M CN Y
VCIN Query –QD..NAM/DOE,JOHN D.DOB/19620611.SEX/M
COB/code#
From Mobile – SN DOE,JOHN D BD 19620611 SS M CN Y
JC 111
VCIN Query –QD..NAM/DOE,JOHN D.DOB/19620611.SEX/M
COB/code#.CCA/Y.COJ/111
From Mobile – SN DOE,JOHN D BD 19620611 SS M FE C
VCIN Query –QD..NAM/DOE,JOHN D.DOB/19620611.SEX/M
PUR/C
From Mobile – SN DOE,JOHN D. LS NC
VCIN Query - DNQ..NC.TXTNAM/DOE,JOHN D.
From Mobile – SN DOE,JOHN D.BD 19620611.SS M TR Y
VCIN Query – QT..NAM/DOE,JOHN D.DOB/19620611.SEX/M.
REQ/name

With CCH

From Mobile – SN DOE,JOHN D BD 19620611 SS M SR W HP C
VCIN Query – run by unit’s current assigned CAD – reply returned to Unit’s
controlling dispatcher.
QH..NAM/DOE,JOHN D.DOB/19620611.SEX/M.RAC/U.
PUR/C

- **Incorrect Query Field Combinations –**
LN and SN, BD, and/or SS cannot be supplied together
TR and FE can not be used in any other state besides VA
SG can not be used when SN is provided
SR can only be used when HP is sent

HVAI – Query Article Mask

- **Queries possible from this mask –**
QA serial number and type
- **HVAI field identifiers –**
AT article type
SN serial number
- **Defaults –**
If no type (AT) is sent – default to JSTICKE

- **Possible Query Field Combinations and VCIN Query format –**
 From Mobile – SN 123456789
 VCIN Query – QA..TYP/JSTICKE.SER/123456789
 From Mobile – SN 123456789 AT RRADIO
 VCIN Query – QA..TYP/RRADIO.SER/123456789

HVGI – Query Gun Mask

- **Queries possible from this mask –**
 QG by serial number
 QG by serial number and make
 QG by serial number, make, and caliber
- **HVGI field identifiers –**
SN serial number
GM gun make
GC caliber
- **Defaults –**
 None
- **Possible Query Field Combinations and VCIN Query format –**
Operator’s License -
 From Mobile – SN 123456789
 VCIN Query – QG..SER/123456789
 From Mobile – SN 123456789 GM BER
 VCIN Query – QG..SER/123456789.MAK/BER
 From Mobile – SN 123456789 GM BER GC 32
 VCIN Query – QG..SER/123456789.MAK/BER.CAL/32

HVBI – Query Boat Mask

- **Queries possible from this mask –**
 QB by registration
 QB by hull number
 BQ by state and registration
 BQ by state and hull number
- **HVBI field identifiers –**
 RN registration number
 HN hull number
 RS registration state
- **Defaults –**
 None
- **Possible Query Field Combinations and VCIN Query format –**
 From Mobile – RN VA1234AB
 VCIN Query – QVB..REG/1234AB
 From Mobile – RN MD1234AB HN BER12345678901234567
 VCIN Query – QB..REG/MD1234AB.BHN/BER12345678901234567
 and BQ..MD.TXTREG/MD1234AB.BHN/BER12345678901234567

Appendix C

Example Screen Images and Message Strings

Typical MCT screen images for all the CAD Interface commands are provided below. Following each image is a capture of an actual message string sent by transmitting each form. These actual images and strings were captured from the mobile data client software in use when the CAD Interface was initially developed and implemented. They are presented here as reference information for developers that may be interfacing other mobile data systems to the VSP CAD.

OPER (Operator Logon) - hlog.htm

```
08/19/02 11:22:21 Line CLRK Terminal CLRK input message in ASCII:
@CLRK CLRK HLOGBN/CLRKCN/CLRKUP/123456
```

```
08/19/02 11:22:21 Line CLRK Terminal CLRK input message in hex:
```

```
01 40 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
02 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 4C 4F 47 02 42 4E 2F 1C 43 4C 52 4B 1C 43 4E
2F 1C 43 4C 52 4B 1C 55 50 2F 1C 31 32 33 34 35 36 1C 03 04
03
```

PASSWORD (Change Password) - hpas.htm

08/19/02 15:17:06 Line CLRK Terminal CLRK input message in ASCII:
 JCLRK CCLRK HPASOP/11111111NP/22222VSPVP/33333VSP

08/19/02 15:17:06 Line CLRK Terminal CLRK input message in hex:

```
01 4A 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
43 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 50 41 53 02 4F 50 2F 1C 31 31 31 31 31 31 31
31 1C 4E 50 2F 1C 32 32 32 32 32 56 53 50 1C 56 50 2F 1C 33
33 33 33 33 56 53 50 1C 03 04 03
```

Operator Logoff – (hoff.htm)

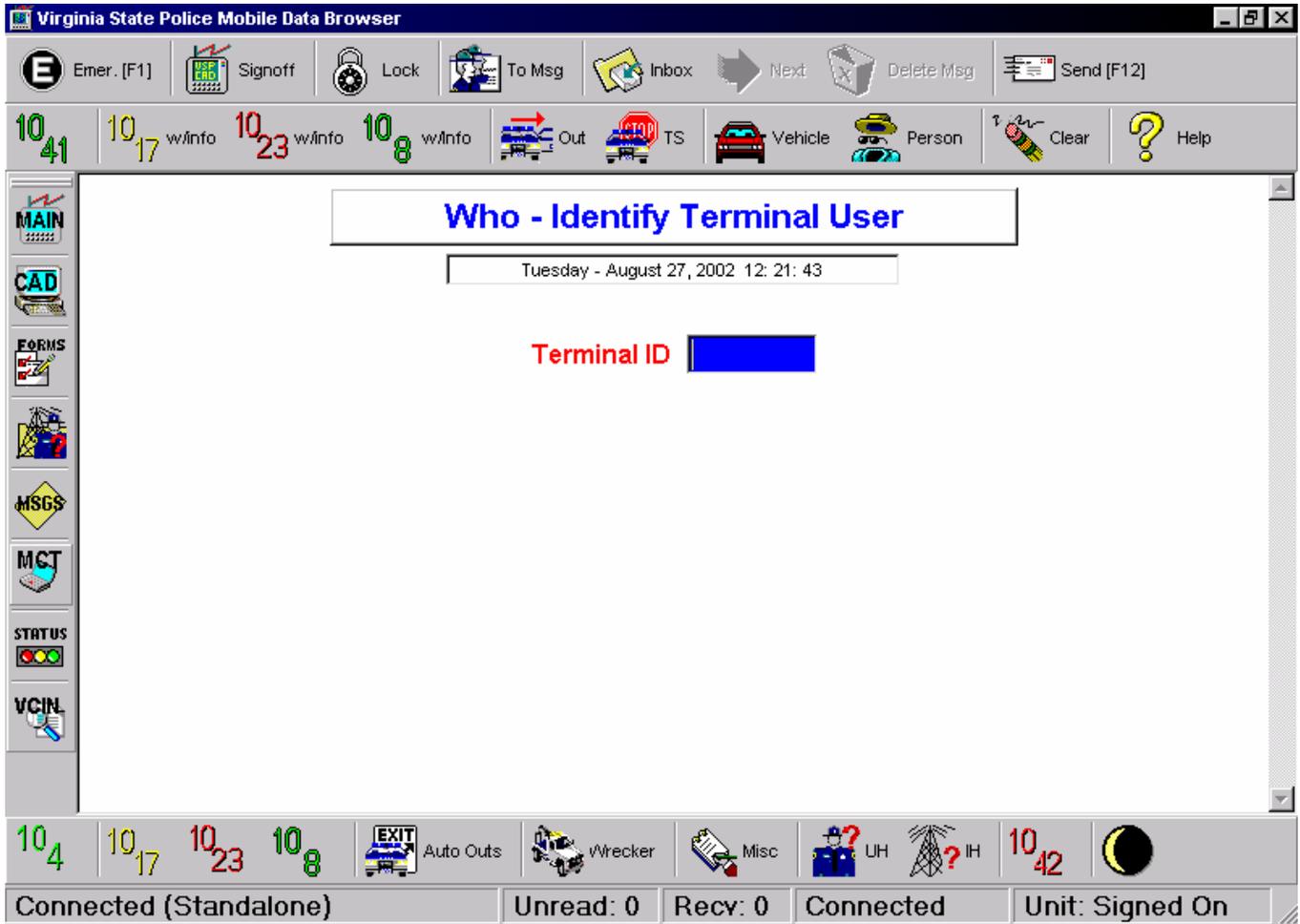
The screenshot displays the 'Virginia State Police Mobile Data Browser' interface. At the top, there is a navigation bar with icons for 'Emer. [F1]', 'Signoff', 'Lock', 'To Msg', 'Inbox', 'Next', 'Delete Msg', and 'Send [F12]'. Below this is a status bar showing call numbers '10 41', '10 17 w/Info', '10 23 w/Info', and '10 8 w/Info', along with icons for 'Out', 'TS', 'Vehicle', 'Person', 'Clear', and 'Help'. The main content area features a large blue box with the text 'Mobile System Logoff' and a smaller box below it showing the date and time: 'Tuesday - August 27, 2002 12: 21: 02'. A red instruction reads 'Press SEND (F12) to submit Logoff.'. On the left side, there is a vertical menu with icons for 'MAIN', 'CAD', 'FORMS', 'MSGs', 'MCT', 'STATUS', and 'VCIN'. At the bottom, another status bar shows call numbers '10 4', '10 17', '10 23', and '10 8', along with icons for 'EXIT Auto Outs', 'Wrecker', 'Misc', 'UH', 'IH', and a moon icon. The bottom-most bar displays system status: 'Connected (Standalone)', 'Unread: 0', 'Recv: 0', 'Connected', and 'Unit: Signed On'.

08/19/02 15:07:58 Line CLRK Terminal CLRK input message in ASCII:
#CLRK ?CLRK HOFF

08/19/02 15:07:58 Line CLRK Terminal CLRK input message in hex:

```
01 23 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00  
3F 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20  
20 01 00 00 48 4F 46 46 02 03 04 03
```

Identify Terminal User – (hwho.htm)



08/19/02 15:13:44 Line CLRK Terminal CLRK input message in ASCII:
 -CLRK @CLRK HWHOTI/12345

08/19/02 15:13:44 Line CLRK Terminal CLRK input message in hex:

```
01 2D 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
40 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 57 48 4F 02 54 49 2F 1C 31 32 33 34 35 1C 03
04 03
```

Locate Terminal User – (hwhr.htm)

08/19/02 15:14:05 Line CLRK Terminal CLRK input message in ASCII:
WCLRK ACLRK HWHRUN/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACN/111111BN/22222

08/19/02 15:14:05 Line CLRK Terminal CLRK input message in hex:

```
01 57 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
41 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 57 48 52 02 55 4E 2F 1C 41 41 41 41 41 41
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 1C
43 4E 2F 1C 31 31 31 31 31 31 1C 42 4E 2F 1C 32 32 32 32
1C 03 04 03
```


45
45
45
45
45
45
45
45
45
4E 44 1C 03 04 03

Traffic Stop Search Summary Information – (htss.htm)

The screenshot shows a mobile data browser interface for the Virginia State Police. The title bar reads "Virginia State Police Mobile Data Browser". The top navigation bar includes icons for "Emer. [F1]", "Signoff", "Lock", "To Msg", "Inbox", "Next", "Delete Msg", and "Send [F12]". Below this is a status bar with various indicators: "10 41", "10 17 w/Info", "10 23 w/Info", "10 8 w/Info", "Out", "TS", "Vehicle", "Person", "Clear", and "Help".

The main content area is titled "Traffic Stop Summary" and displays the date and time: "Tuesday - August 27, 2002 12: 04: 36". Below this are several dropdown menus for data entry:

- Jurisdiction Code**: []
- Stop Type**: []
- Arrest or Summons**: []
- Search**: []
- Race**: []

A **Note:** states: "If multiple charges and/or searches arise during the same traffic stop, submit an individual summary for each subject."

The bottom status bar shows "Connected (Standalone)", "Unread: 0", "Recv: 0", "Connected", and "Unit: Signed On".

```
08/19/02 12:29:33 Line CLRK Terminal CLRK input message in ASCII:
CCLRK      .CLRK                HTSSAS/YJC/777SR/USS/YTA/T
```

```
08/19/02 12:29:33 Line CLRK Terminal CLRK input message in hex:
```

```
01 43 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
2E 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 54 53 53 02 41 53 2F 1C 59 1C 4A 43 2F 1C 37
37 37 1C 53 52 2F 1C 55 1C 53 53 2F 1C 59 1C 54 41 2F 1C 54
1C 03 04 03
```


Unit History – (huhr.htm)

08/19/02 12:06:08 Line CLRK Terminal CLRK input message in ASCII:
 .CLRK (CLRK HUHRHD/999999

08/19/02 12:06:08 Line CLRK Terminal CLRK input message in hex:

```
01 2E 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
28 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 55 48 52 02 48 44 2F 1C 39 39 39 39 39 39 1C
03 04 03
```

08/19/02 12:06:13 Line CLRK Terminal CLRK input message in ASCII:
 *CLRK)CLRK HSTSSTATUH

08/19/02 12:06:13 Line CLRK Terminal CLRK input message in hex:

```
01 2A 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
29 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 53 54 53 02 53 54 41 54 1C 55 48 03 04 03
```

Incident History – (hihr.htm)

08/19/02 12:14:49 Line CLRK Terminal CLRK input message in ASCII:
 4CLRK -CLRK HIHRIN/222222222222

08/19/02 12:14:49 Line CLRK Terminal CLRK input message in hex:

```
01 34 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
2D 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 49 48 52 02 49 4E 2F 1C 32 32 32 32 32 32
32 32 32 32 32 1C 03 04 03
```

08/19/02 12:06:32 Line CLRK Terminal CLRK input message in ASCII:
 *CLRK +CLRK HSTSSTATIH

08/19/02 12:06:32 Line CLRK Terminal CLRK input message in hex:

```
01 2A 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
2B 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 53 54 53 02 53 54 41 54 1C 49 48 03 04 03
```

Unit Roster – (hurr.htm)

08/19/02 12:05:52 Line CLRK Terminal CLRK input message in ASCII:
 -CLRK &CLRK HURRDG/G1011

08/19/02 12:05:52 Line CLRK Terminal CLRK input message in hex:

```
01 2D 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
26 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 55 52 52 02 44 47 2F 1C 47 31 30 31 31 1C 03
04 03
```

08/19/02 12:06:00 Line CLRK Terminal CLRK input message in ASCII:
 *CLRK 'CLRK HSTSSTATUR

08/19/02 12:06:00 Line CLRK Terminal CLRK input message in hex:

```
01 2A 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
27 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 53 54 53 02 53 54 41 54 1C 55 52 03 04 03
```

Unit Status – (husr.htm)

08/19/02 12:05:34 Line CLRK Terminal CLRK input message in ASCII:
 ,CLRK %CLRK HUSRUN/1442

08/19/02 12:05:34 Line CLRK Terminal CLRK input message in hex:

```
01 2C 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
24 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 55 53 52 02 55 4E 2F 1C 31 34 34 32 1C 03 04
03
```

08/19/02 12:05:40 Line CLRK Terminal CLRK input message in ASCII:
 *CLRK %CLRK HSTSSTATUS

08/19/02 12:05:40 Line CLRK Terminal CLRK input message in hex:

```
01 2A 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
25 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 53 54 53 02 53 54 41 54 1C 55 53 03 04 03
```

Dispatch – (hdis.htm)

Dispatch

Primary Unit
{MDB_01}

Assisting Units
{MDB_02} {MDB_03} {MDB_04} {MDB_05} {MDB_06} {MDB_07} {MDB_08} {MDB_09} {MDB_10} {MDB_11} {MDB_12} {MDB_13}
{MDB_14} {MDB_15} {MDB_16} {MDB_17} {MDB_18} {MDB_19} {MDB_20} {MDB_21} {MDB_22} {MDB_23} {MDB_24} {MDB_25}
{MDB_26} {MDB_27} {MDB_28} {MDB_29} {MDB_30} {MDB_31} {MDB_32} {MDB_33} {MDB_34} {MDB_35} {MDB_36}

Main Incident Information

Number	{MDB_IN}	Date/Time	NaN
Type	{MDB_TC}	Source	{MDB_SR}
Loc	{MDB_NL}	Priority	{MDB_PR}
Loc Info	{MDB_LI}		
Entry Info	{MDB_NA}		

Additional Information

Type Info	{MDB_DE}	DutyPost	{MDB_DP}
Group	{MDB_DG}		
Caller Name	{MDB_CN}		
Address	{MDB_CA}		
Phone	{MDB_CP}		

The actual application screen image and message string were unavailable at the time of this revision. They will be provided in a later release.

Court Inormation Activity – (hcia.htm)

Virginia State Police Mobile Data Browser

Emer. [F1] Signoff Lock To Msg Inbox Next Delete Msg Send [F12]

10:41 10:17 w/Info 10:23 w/Info 10:08 w/Info Out TS Vehicle Person Clear Help

Court Information

Tuesday - August 27, 2002 11: 42: 41

Action **Jurisdiction**

Starting Date **Ending Date**
[mmddyy] [Retrieve Action only]

Insert / Update Case Information

	Convictions	Dismissals	Nol-prossed
DUI	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other	<input type="text"/>	<input type="text"/>	<input type="text"/>
Compliant	<input type="text"/>		

Note:
 For Retrieve actions, if no Ending Date is specified, all information entries from Starting Date through the current date will be returned.

10:04 10:17 10:23 10:08 EXIT Auto Outs Wrecker Misc UH IH 10:42

Connected (Standalone) Unread: 0 Recv: 0 Connected Unit: Signed On

```
08/19/02 12:31:41 Line CLRK Terminal CLRK input message in ASCII:
_CLRK 1CLRK HCIAAC/RJC/111SD/222222ED/333333CD/444DD/666ND/888CO/
555DO/777NO/999LO/AAA
```

08/19/02 12:31:41 Line CLRK Terminal CLRK input message in hex:

```
01 5F 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
31 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 43 49 41 02 41 43 2F 1C 52 1C 4A 43 2F 1C 31
31 31 1C 53 44 2F 1C 32 32 32 32 32 32 1C 45 44 2F 1C 33 33
33 33 33 33 1C 43 44 2F 1C 34 34 34 1C 44 44 2F 1C 36 36 36
1C 4E 44 2F 1C 38 38 38 1C 43 4F 2F 1C 35 35 35 1C 44 4F 2F
1C 37 37 37 1C 4E 4F 2F 1C 39 39 39 1C 4C 4F 2F 1C 41 41 41
1C 03 04 03
```

Agency Assist Activity – (haia.htm)

08/19/02 12:32:01 Line CLRK Terminal CLRK input message in ASCII:
WCLRK 2CLRK HAIAAC/RSD/111111ED/222222SO/333PD/444OA/555

08/19/02 12:32:01 Line CLRK Terminal CLRK input message in hex:

```
01 57 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
32 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 41 49 41 02 41 43 2F 1C 52 1C 53 44 2F 1C 31
31 31 31 31 31 1C 45 44 2F 1C 32 32 32 32 32 32 1C 53 4F 2F
1C 33 33 33 1C 50 44 2F 1C 34 34 34 1C 4F 41 2F 1C 35 35 35
1C 03 04 03
```

Drug Information Activity – (hdia.htm)

Virginia State Police Mobile Data Browser

Emer. [F1] Signoff Lock To Msg Inbox Next Delete Msg Send [F12]

10 41 10 17 w/Info 10 23 w/Info 10 8 w/Info Out TS Vehicle Person Clear Help

Drug/Narcotics Information

Tuesday - August 27, 2002 11: 47: 18

Action [Dropdown]

Starting Date [mmddyy] Ending Date [Retrieve Action only]

Insert / Update Information

General	Charges	Seizures
Arrests []	Possession []	Currency [whole dollars] []
Street Value [estimated dollars] []	Distribution []	Weapons []
	Other []	

Note:
For Retrieve actions, if no Ending Date is specified, all information entries from Starting Date through the current date will be returned.

10 4 10 17 10 23 10 8 EXIT Auto Outs Wrecker Misc UH IH 10 42

Connected (Standalone) Unread: 0 Recv: 0 Connected Unit: Signed On

```
08/19/02 12:30:56 Line CLRK Terminal CLRK input message in ASCII:
_CLRK 0CLRK HDIAAC/RSD/111111ED/222222AR/333PC/555CS/8888888SV/44
44444DC/666WS/999OC/777
```

```
08/19/02 12:30:56 Line CLRK Terminal CLRK input message in hex:
```

```
01 5F 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
30 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 44 49 41 02 41 43 2F 1C 52 1C 53 44 2F 1C 31
31 31 31 31 31 1C 45 44 2F 1C 32 32 32 32 32 32 1C 41 52 2F
1C 33 33 33 1C 50 43 2F 1C 35 35 35 1C 43 53 2F 1C 38 38 38
38 38 38 38 1C 53 56 2F 1C 34 34 34 34 34 34 34 1C 44 43 2F
1C 36 36 36 1C 57 53 2F 1C 39 39 39 1C 4F 43 2F 1C 37 37 37
1C 03 04 03
```

Mileage Information Activity – (hmi.htm)

Virginia State Police Mobile Data Browser

Emer. [F1] Signoff Lock To Msg Inbox Next Delete Msg Send [F12]

10₄₁ 10₁₇ w/Info 10₂₃ w/Info 10₈ w/Info Out TS Vehicle Person Clear Help

Mileage Information

Tuesday - August 27, 2002 13: 58: 06

Action **Retrieve**

Starting Date **Ending Date**
(mmdyyy) (Retrieve action only)

Beginning Mileage **Ending Mileage**
(Update action only) (Update action only)

Note:
 For Retrieve actions, if no Ending Date is specified, all information entries from Starting Date through the current date will be returned.

10₄ 10₁₇ 10₂₃ 10₈ EXIT Auto Outs Wrecker Misc UH IH 10₄₂

Connected (Standalone) Unread: 0 Recv: 0 Connected Unit: Signed On

```
08/19/02 14:22:59 Line CLRK Terminal CLRK input message in ASCII:
UCLRK      3CLRK      HMIAAC/RSD/111111ED/222222BM/333333EM/444444
```

```
08/19/02 14:22:59 Line CLRK Terminal CLRK input message in hex:
```

```
01 55 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
33 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 4D 49 41 02 41 43 2F 1C 52 1C 53 44 2F 1C 31
31 31 31 31 31 1C 45 44 2F 1C 32 32 32 32 32 32 1C 42 4D 2F
1C 33 33 33 33 33 33 1C 45 4D 2F 1C 34 34 34 34 34 34 1C 03
04 03
```

Article Inquiry – (hvai.htm)

The screenshot shows a mobile browser window titled "Virginia State Police Mobile Data Browser". The interface includes a top navigation bar with icons for "Emer. [F1]", "Signoff", "Lock", "To Msg", "Inbox", "Next", "Delete Msg", and "Send [F12]". Below this is a status bar with various icons and text: "10 41", "10 17 w/info", "10 23 w/info", "10 8 w/info", "Out", "TS", "Vehicle", "Person", "Clear", and "Help".

The main content area displays the "Article Inquiry" title in a blue box, followed by the date and time: "Tuesday - August 27, 2002 14: 03: 26". Below this is a form with two input fields: "Type [NCIC TYP code]" (with a blue background) and "Serial Number [or Owner-Applied-Number]" (with a white background). A red "Note:" follows, stating: "Unless specified, article Type will default to a Virginia State Inspection or Emissions sticker."

The bottom of the screen features a navigation bar with icons for "EXIT Auto Outs", "Wrecker", "Misc", "UH", "IH", and "10 42". At the very bottom, a status bar shows "Connected (Standalone)", "Unread: 0", "Recv: 0", "Connected", and "Unit: Signed On".

```
08/19/02 14:28:11 Line CLRK Terminal CLRK input message in ASCII:
HCLRK      5CLRK          HVAIAT/TTTTTTTSN/11111111111111111111
```

```
08/19/02 14:28:11 Line CLRK Terminal CLRK input message in hex:
```

```
01 48 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
35 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 56 41 49 02 41 54 2F 1C 54 54 54 54 54 54 54
1C 53 4E 2F 1C 31 31 31 31 31 31 31 31 31 31 31 31 31 31
31 31 31 31 31 1C 03 04 03
```

Gun Inquiry – (hvgi.htm)

Virginia State Police Mobile Data Browser

Emer. [F1] Signoff Lock To Msg Inbox Next Delete Msg Send [F12]

10₄₁ 10₁₇ w/Info 10₂₃ w/Info 10₈ w/Info Out TS Vehicle Person Clear Help

Gun Inquiry

Tuesday - August 27, 2002 14: 05: 38

Serial Number

Make
[NCIC MAK Code]

Caliber
[NCIC CAL Code]

Note:
If the serial number exceeds 11 characters, submit inquiry with the rightmost 11.
If the response is negative, resubmit inquiry with the leftmost 11 characters.

10₄ 10₁₇ 10₂₃ 10₈ EXIT Auto Outs Wrecker Misc UH IH 10₄₂

Connected (Standalone) Unread: 0 Recv: 0 Connected Unit: Signed On

08/19/02 14:28:56 Line CLRK Terminal CLRK input message in ASCII:
DCLRK 7CLRK HVGISN/11111111111GM/AAAGC/2222

08/19/02 14:28:56 Line CLRK Terminal CLRK input message in hex:

```
01 44 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
37 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 56 47 49 02 53 4E 2F 1C 31 31 31 31 31 31
31 31 31 31 1C 47 4D 2F 1C 41 41 41 1C 47 43 2F 1C 32 32 32
32 1C 03 04 03
```

Boat Inquiry – (hvbi.htm)

08/19/02 14:28:35 Line CLRK Terminal CLRK input message in ASCII:
PCLRK 6CLRK HVBIRN/11111111HN/22222222222222222222RS/DC

08/19/02 14:28:35 Line CLRK Terminal CLRK input message in hex:

```
01 50 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
36 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 56 42 49 02 52 4E 2F 1C 31 31 31 31 31 31 31
31 1C 48 4E 2F 1C 32 32 32 32 32 32 32 32 32 32 32 32 32
32 32 32 32 32 32 1C 52 53 2F 1C 44 43 1C 03 04 03
```

Vehicle Inquiry – (hvvi.htm)

The screenshot shows a mobile data browser window titled "Virginia State Police Mobile Data Browser". The interface includes a top toolbar with icons for Emer. [F1], Signoff, Lock, To Msg, Inbox, Next, Delete Msg, and Send [F12]. Below this is a status bar with various icons and text: "10 41", "10 17 w/Info", "10 23 w/Info", "10 8 w/Info", "Out", "TS", "Vehicle", "Person", "Clear", and "Help".

The main content area is titled "Vehicle Inquiry" and shows the date and time: "Tuesday - August 27, 2002 14: 09: 10". There are two search methods: "By Registration" and "By Vehicle Identification Number".

By Registration:

- License number: [Redacted]
- [State]: [Dropdown menu]
- Expiration [yyyy]: [Text input]
- License Type: [Dropdown menu]

By Vehicle Identification Number:

- VIN [or serial #]: [Text input]
- Region [multi-state]: [Dropdown menu]

Below the search fields are two buttons: "Lien Information" and "FOI". Under "Lien Information", there are two radio buttons: "Request" and "Exempt".

The bottom status bar shows: "Connected (Standalone)", "Unread: 0", "Recv: 0", "Connected", and "Unit: Signed On".

```
08/19/02 14:31:35 Line CLRK Terminal CLRK input message in ASCII:
PCLRK      :CLRK          HVVILN/11111111VN/2222222222222222LS/CTSG/NRLY/3333L
T/ARLI/YFE/C
```

08/19/02 14:31:35 Line CLRK Terminal CLRK input message in hex:

```
01 50 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
3A 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 56 56 49 02 4C 4E 2F 1C 31 31 31 31 31 31 31
31 1C 56 4E 2F 1C 32 32 32 32 32 32 32 32 32 32 32 32 32
32 32 32 1C 4C 53 2F 1C 43 54 1C 53 47 2F 1C 4E 52 1C 4C 59
2F 1C 33 33 33 33 1C 4C 54 2F 1C 41 52 1C 4C 49 2F 1C 59 1C
46 45 2F 1C 43 1C 03 04 03
```

Person Inquiry – (hvpi.htm)

```
08/19/02 15:05:55 Line CLRK Terminal CLRK input message in ASCII:
CLRK >CLRK HVPILN/11111111111111111111111111111111SN/AAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAALS/DCBD/22222222SS/FS2/CTSR/ISG/BRTR/YCN/YJC/000HP/CFE/C
```

08/19/02 15:05:55 Line CLRK Terminal CLRK input message in hex:

```
01 B2 00 00 00 43 4C 52 4B 20 20 20 20 00 00 02 01 00 00 00
3E 00 00 00 00 43 4C 52 4B 20 20 20 20 20 20 20 20 20 20
20 01 00 00 48 56 50 49 02 4C 4E 2F 1C 31 31 31 31 31 31
31 31 31 31 31 31 31 31 31 31 31 31 31 31 1C 53 4E 2F 1C 41 41
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41
41 41 41 41 41 41 41 41 41 41 41 41 41 41 1C 4C 53 2F 1C 44 43
1C 42 44 2F 1C 32 32 32 32 32 32 32 32 32 32 1C 53 53 2F 1C 46 1C
53 32 2F 1C 43 54 1C 53 52 2F 1C 49 1C 53 47 2F 1C 42 52 1C
54 52 2F 1C 59 1C 43 4E 2F 1C 59 1C 4A 43 2F 1C 30 30 30 1C
48 50 2F 1C 43 1C 46 45 2F 1C 43 1C 03 04 03
```


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