

Attachment 6

CT DMV DL/ID RFP

Current State Technical Description Attachment

Driver License System: The Driver License System is divided into two components: (1) the **Mainframe License System**, containing all demographic data elements of the license, permit or ID holder (i.e., NAME, ADDRESS, SEX, HEIGHT, etc.), and (2) the **Central Image System** containing the digitized portrait and signature of the license, permit or ID cardholder. Both components reside at the Connecticut Administrative Technology Center (CATER) at the Connecticut Department of Information Technology (DOIT).

The unique identifier linking the demographic and image data is the nine digit DL/ID number, i.e., the Connecticut Operator Number. Depending on the DL/ID format type, this unique identifier of the Driver License System is labeled (on the card) as the **LICENSE NUMBER**, **PERMIT NUMBER**, or **IDENTIFICATION NUMBER**. This number is unique to each individual holding a DL/ID card, and remains the same when the individual changes DL/ID format type (e.g., changing from a non-driver ID or a permit to a driver's license, or changing from a non-CDL to a CDL, etc.)

The Mainframe License System, also referred to as the License System, operates on an IBM mainframe under an MVS/ESA environment at CATER. The License System, written in COBOL II and COBOL CICS, performs both batch and online updates. The files are a combination of VSAM KSDS and sequential disk. The License System contains an electronic record of all commercial and non-commercial driver licenses, as well as non-driver identification cards and permits issued by the DMV.

The DMV accesses the License System through the Connecticut IBM SNA network provided by CATER. CATER also maintains a TCP/IP network with TN3270 that has access to the License system. The State WAN is a frame relay network running IP.

The License System collects and maintains electronic information of all Connecticut non-commercial and commercial drivers as well as of non-driver identification card holders and holders of in-state and out-of-state permits issued by the DMV. The License system processes all new licenses, license renewals, and updates to existing licenses.

The Commercial Driver License (CDL) portion of the system interfaces with the CDLIS (Commercial Driver License Information System), which is a distributed data exchange application that provides jurisdictions with license and identification information for all commercial drivers in the United States. The CDLIS central site processes transactions based on identification data maintained by each jurisdiction. CDLIS is currently maintained by AAMVA (American Association of Motor Vehicle Administrators). All the jurisdictions communicate with CDLIS and each other via the AAMVAnet telecommunications network. All changes to Commercial Driver Licenses go through CDLIS.

The Central Image System contains the digitized portrait image and signature image of all individuals holding a driver's license, non-driver ID or permit. All images are captured at photo license workstations (a.k.a image capture workstations, ICW) located in all DMV branch offices, satellite offices, photo license centers, mobile units, and AAA offices throughout the State. The digitized image files are uploaded to an IBM mainframe every day, under an MVS/ESA environment, as VSAM KSDS files, in CATER. The license system data and image data are linked together by COBOL CICS programs using the nine digits Connecticut Operator Number as the key.

Driver License System program statistics are as follows:

Authoritative Information Sources: Melissa Connery, DMV Information Systems Technologies Division (IST)

System Owner of Record: DMV Branch Operations Division

Technical Support: The DMV Information Systems Technologies (IST) Division

System Development: The System was developed in-house by the DMV IST Division

Initial Install Date: Late 1970's, with updates

Installed Version: Major overhaul in 1991-1994; converted from DOS/VSE/SP to MVS/OS in 1994 as part of the CDL Project

Run location: DOIT CATER in Hartford

OS/TP Environment: IBM MVS/OS 390 VTAM/CICS

Technical Architecture: IBM Mainframe, VTAM, TCP/IP and SNA to Wethersfield, SNA to Branch Offices, Ethernet and Token Ring

File/Data Base: VSAM KSDS, sequential files

User Interface: 3270/CICS Inquiry and access

Driver License File: 2,333,052 active records: 3,132,960 total: as of 5/01/01

Record Size = 170 bytes (License ID File)

Record Size = 140 bytes (License Status File)

Digitized Image File: 2,333,052 active records, 5,220,165 total: as of 5/01/01

Record Size = 18,432 bytes (12 image files & 1 Employee ID file)

Non-CDL/CDL licenses, non-driver ID's and permits:

| | | | |
|----------------|----------------|----------|----------------|
| Lines of Code: | COBOL: 441,422 | ASM: 500 | Total: 441,942 |
| Programs: | COBOL: 825 | ASM: 5 | Total: 830 |

Digitized Imaging:

| | | | |
|----------------|---------------|--------|---------------|
| Lines of Code: | COBOL: 17,605 | ASM: 0 | Total: 17,605 |
| Programs: | COBOL: 22 | ASM: 0 | Total: 22 |

Y2K Status: The System is compliant, using windowing logic.

Data Center Environment: The following section provides an overview of the products currently installed in CATER, the State Data Center. Vendors must plan to utilize these existing products where possible, because they are maintained and available, and also because the State has experience with them.

The CATER hardware environment is as follows:

Computers: IBM 9672-R64 (2)
240 MIPs 6-way 2 Gigabytes Memory

Disk Storage: EMC 5700 Symetrix
560 GB (3390 volumes)
IBM RVA
510 GB (3390 volumes)
IBM RAMAC II (2)
180 GB per device (3390 volumes)

Tape: IBM Tape Library System with VTS and Native 3590 Support
64 VTS Drives & 12 3590 Drives
IBM 3480 Tape Drives (12)
STK 3420 Tape Drives (8)

Connectivity: IBM 3745 Communications Controller
SNA Network
IBM 3172 Controller
TCP/IP
CISCO Routers

TCP/IP

The software is as follows:

Operating System: OS/390 Release 2.6 with JES2 Release 2.6

Language Support: IBM COBOL for MVS & VM, SAA REXX/370 Compiler and Library, and High-Level Assembler

Higher Level Languages: FOCUS, EASYTREV/PLUS and SAS

Transaction Processing: CICS 4.1

CICS Supports: DMS/CICS/VS 1.5