

Appendix C - 2007 New Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Health (VDA)

Project Formal Title: Electronic Death Registration (EDR)

Project Description:

The Electronic Death Registration (EDR) system is a web based proposed system that would allow for the electronic capture of death data from funeral service licensees, state medical examiners and state physicians. The system would allow the VDH-Division of Vital Records and local health departments to issue and retain death certificates electronically as opposed to the manual process that is currently used. The Electronic Death Registration system is expected to reduce reporting delays, improve data quality, and increase the utility of death data.

Project Scope:

The Electronic Death Registration (EDR) system will allow the Division of Vital Records (DVR) to go from a paper-based reporting system to an electronic filing system. The EDR will be a web-based system that will allow the many participants of the death registration process to remotely submit; register; and certify deaths occurring in the Commonwealth of Virginia. Electronic registration of deaths will gradually replace the current paper-based system. The Division of Vital Records is mandated by the Code of Virginia §32.1-273.1 to fully automate the system of vital records. The development of the EDR system will help fulfill this mandate, improve response time to customers, thus enhancing customer service and help the division fulfill proposed federal mandates that will be set forth in the Intel reform ACT that is proposed to be enacted within the next two to three years. This federal reform will impact the issuance and retention of all vital records across the nation. The proposed EDR system will also help the Division of Vital Records address their physical storage issues by helping to alleviate the growing need for more space to address the concern of retaining paper copies on site

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Secretariat: Health & Human Resources

Agency: Department of Health (VDA)

Project Formal Title: EMS Registry

Project Description:

The EMS Registry project is designed to replace the current Prehospital Patient Care Reporting (PPCR) system. The current program is technologically outdated and currently not assisting the Office of EMS to fully meet its Code mandates. The current PPCR program is cumbersome and requires manual data entry of flat files, has few upfront validations, has no compliance monitoring tools and data can only be used retrospectively with a delay in analysis being a minimum of 120 days. The new EMS Registry will be a web based data collection tool that utilizes electronic medical record technology and eliminate the current paper based system. By converting to a web based electronic patient care report (e-PCR), data submission will no longer be a separate function for the over 700 hundred EMS agencies. Instead, data submission will occur as a normal part of medical record charting through an e-PCR. Also, by converting the current outdated technology with the proposed program, data will become near real time (within 24-48 hours) and therefore a degree of health care surveillance will be added to the system. In addition, EMS treatment can be assessed and new implementations in emergency care and systems issues can be initiated sooner. Poor compliance will also be resolved by having an electronic data collection system, as transcribing patient encounters manually will no longer be required.

The Office of EMS and EMS agencies are required by Code and regulations to carry out performance improvement (PI) processes. The project will include PI modules for a state level PI program using dating mining. Most importantly, is the fact that with the initiation of this project, OEMS will put into place the national dataset as agreed to in a 2003 MOU with the National EMS Information System (NEMSIS). This monumental effort is to assure the each data element collected by localities; regions, the state, and the national database are exactly the same, for more reliable analysis.

Project Scope:

The EMS Registry project will allow the Office of EMS to fulfill the requirement of Code of Virginia § 32.1-111.3; promote continuing improvement of the EMS system; and improve the quality of emergency care being provided both in the prehospital and in-hospital environments through a comprehensive performance improvement program. The Virginia Department of Health (VDH), with the Office of Emergency Medical Services (OEMS) as its designee, is mandated by the Code of Virginia §§ 32.111.3, 32.1-116-1 to develop a comprehensive, coordinated, emergency medical care system incorporating facilities, transportation, manpower, communications, and other components as integral parts of a unified system that will serve to improve the delivery of emergency medical services and thereby decrease morbidity, hospitalization, disability and mortality.

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Secretariat: Health & Human Resources

Agency: Department of Health (VDA)

Project Formal Title: Virginia Immunization Information System

Project Description:

The Virginia Immunization Information System (VIIS) is a statewide immunization registry that consolidates patient immunization histories from birth to death into a complete, accurate, and definitive record that will be available to participating health care providers. Its purpose is to protect the public health, prevent under and over immunizations of children, ensure up-to-date recommendations for immunization scheduling to health care providers, generate recall notices, develop immunization reports, identify areas of under-immunized populations and in the event of an emergency, provide a mechanism for tracking the distribution and administration of immunizations. The registry will resolve the problem of fragmented immunization histories on children in Virginia. Since most children have multiple health care providers during their pre-school years a definitive immunization record is difficult to construct. Having the histories of both private and public patients entered into one system will enable health care providers to make the best medical decision for the children they serve.

Project Scope:

The Virginia Immunization Information System (VIIS) will allow VDH to fulfill the requirement of §32.1-46.01 requiring the Board of Health to establish the Virginia Immunization Information System, a statewide immunization registry that consolidates patient immunization histories from birth to death into a complete, accurate, and definitive record that may be made available to participating health care providers throughout Virginia. This project is critical in that a fully implemented registry will improve immunization record keeping and provide physicians with more accurate information on which to base their medical decisions. The registry will improve the ability of physicians to proactively identify children needing immunizations, enhance reminder/recall systems, and accurately assess immunization coverage rates in their practices.

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Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: VaTraffic

Project Description:

VaTraffic will provide a fully functioning, web-based application for roadway incident management; statewide integration with the regional Smart Traffic Centers (STC) and the Transportation Emergency Operations Center (TEOC); and real time data feeds to the Virginia 511 Website and Virginia Integrated Voice Recognition (IVR) Phone Service. Due to the recent regionalization of operations management, VDOT requires an integrated solution for capturing, storing and disseminating relevant roadway information to field personnel, management and the traveling public, especially in the event of emergencies, such as severe weather. Data related to incidents, events and planned lane closures must be disseminated in an accurate and timely manner to benefit the public and internal customers. Reporting and analysis tools are also needed.

Project Scope:

Functional areas in the web application will include:

- Capturing, storing and disseminating data for Planned Events
 - o work zones, special events, bridge openings
- Capturing, storing and disseminating data for Unplanned Events
 - o incidents, weather events, road conditions
- Enhanced Mapping capabilities
 - o point and linear events, form-driven data entry using route numbers, street names, mile markers (to be finalized during requirements specifications)
- On-line Data Grid with filtering, sorting and grouping capabilities for analysis
- Canned and ad-hoc Reporting with exporting and printing capabilities
- Work Requests (window to AMS) for generating and tracking incident related work requests
- Auto-generated e-mail Notifications including forced alerts and user defined subscriptions
- Special features will include:
 - Data Association for linking related events
 - User Prompts and Data Validation
 - System-generated Reminders
 - Multiple scheduling configurations
 - Lane Impact control
 - Conflict Detection for identifying scheduling issues related to planned lane

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Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: VEAP at VDOT (**IPP**)

Project Description:

VEAP in VDOT will provide a structured analysis of the agency's system modifications and enhancements required to address the VEAP implementation. This analysis will include the modifications to existing systems and new functionality to be developed to replace existing FMS functionality being retired.

Project Scope:

The VEAP implementation and corresponding retirement of VDOT's FMS System will create the need for new functionality being developed to address functionality not included in the VEAP scope and interfaces to the VEA System to provide VDOT Financial data. As a result of this project VDOT will have identified system and application deliverables that will meet the needs of both the VEA System and VDOT's internal financial processing needs. This identification will include scope, requirements, and cost estimates.