

## **Health Data Repository (EA-12)**

### ***Authoritative Source***

- BY-2008 IT Project Portfolio

### ***Stakeholder***

- All veterans, their dependents, and their survivors
- DoD/VA Health Executive Council
- VHA Business Line Managers and Health Care Providers

### ***Related Segment Architectures***

- “Proposed” Health Business Segment

### ***Requirement Description***

The purpose of this project is to establish a Health Data Repository (HDR), which is defined as a repository of clinical information normally residing on one or more independent platforms for use by clinicians and other personnel in support of patient-centric care. The data is retrieved from legacy, transaction-oriented systems and is organized in a format to support clinical decision-making in support of patient care, independent of the physical location of patient information. The HDR will hold individual patient medical records that delineate all aspects of a patient's care across the continuum within Veterans Health Administration (VHA).

The existing baseline is a complex of electronic medical record information, for each patient, stored in over 22 vertical applications within the VistA system. Each occurrence of the VistA system, at each VHA medical care facility, supports a different subset of the patient population. This fragmentation of the patient records over numerous systems leads to lack of control of the health record and can lead to increased patient safety risks if the entire medical record is not available, at the same time, at the point of care.

### ***Recommended Solution***

VHA will develop the required data dictionary with a presentation front-end leveraged from the existing VistA /CPRS system. This solution relies on VistA alerts for decision support and a Cache; database technology. It is estimated to take a minimum of five to ten years to develop. It is anticipated that given the extended implementation schedule required for development, this solution would require additional change control to manage future requirements. This solution is appropriate since requirements are well known, and not likely to change, and where requirements and changes are likely to occur, OTC solutions are not likely to be available in the marketplace.

### ***EA Investment Scoring***

The following table provides the EA evaluation score for BY-2008 (this is the project's most recent Exhibit-300 budget request). Scores are provided for business, data and implementation issues and for an overall project average. The Exhibit-300 EA evaluation procedure is defined within the Enterprise Architecture Portal "Procedures Tab"; all scoring is based on a scale from 0 through 5.

VA EA Evaluation			
Business	Data	Implementation	Average
5.00	4.25	5.00	4.75

***Project Value Proposition, Performance Measures and Measured Results***

The following table identifies the VA and PMA business objectives that this project will satisfy, along with the performance metrics with which project success will be evaluated. For projects that are mature enough to have produced measured results, those results are also provided.

Project Value Proposition			
Support for PMA Initiatives	Support for VA Strategic Goals	Project Metrics	Project Results/Outcomes
1.A.13.a & 1.A.13.b	1.A.29	1.D.1	1.D.1
<p><b>Human Capital</b></p> <p>-----The HDR will provide online patient data clinicians at the point of care increasing productivity facilitate medical decision-making and improve quality of care.</p> <p><b>Budget Performance Integration</b></p> <p>----- PM processes are applied to insure on-time completion and within budget</p> <p><b>Expanded E-Government</b></p> <p>-----The project will exchange computable medical info between the DoD and VA. The HDR aligns with EO to computerize Health Records and HealthePeople. The records within the repository are designed from the perspective that veterans will expect them to be portable.</p>	<p><b>Honor &amp; Memorialize</b></p> <p>Currently a patient-centered medical record is common to VA and non-VA entities, as well as communication between these systems in a coordinated fashion is lacking. The objective of HDR is to eliminate this gap in communications, technology and governance</p> <p><b>One VA</b></p> <p>The HDR will affect all VistA applications and systems. It is an essential architectural element for establishing data commonality and data sharing across VA and VA's medical business partners.</p> <p><b>Ensure Smooth Transition</b></p> <p>Patients are treated at multiple facilities, but (without HDR standardization) patient data moves between them only in incomplete aggregated form, not in interactive form. Real-time data transfer between packages occurs only at local sites. Patient data outside of VHA (some patients are treated both inside and outside of the VA sphere of influence) is not collected, or collected only in paper form.</p> <p><b>Quality of Life</b></p> <p>The HDR objective is to provide high-quality, reliable, sharable, accessible, timely and efficient health care that maximizes the health and functional status for all enrolled veterans</p> <p><b>Public Health &amp; Socioeconomic Wellbeing</b></p> <p>The central repository serves four main purposes: First, will serve as an authoritative source of the legal medical record. Second, will enable the generation of clinical reports</p>	<p><b>Measurement-1 Indicator</b></p> <p>Improve the quality and safety of health care of veterans</p> <p><b>Measurement-2 Indicator</b></p> <p>The average response time to add file content to VistA by the terminology services team will not unduly impact care providers</p> <p><b>Measurement-3 Indicator</b></p> <p>Improve and safeguard the confidentiality, integrity and availability of patient identifiable information</p> <p><b>Measurement-4 Indicator</b></p> <p>Improve availability of patient-centric clinical information by decreasing the number of local ICN's</p>	<p><b>Measurement-1 Results</b></p> <p>Actual results will be available at the end of FY 2007.</p> <p><b>Measurement-2 Results</b></p> <p>Full implementation of the NTRT will complete in FY 2006 with results available in late 2007</p> <p><b>Measurement-3 Results</b></p> <p>Actual results will be available at the end of FY 2007.</p> <p><b>Measurement-4 Results</b></p> <p>Actual results will be available at the end of FY 2007.</p>

	<p>based upon the entire clinical holdings of the Administration. Third, HDR will support VHA and VA-wide databases. Fourth, the master repository supports copying records when records need to be shared between operational repositories.</p>		
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***Enterprise Impact***

HDR implements the health data component of the Enterprise data layer. It will provide a standardized health data store and stand access methodology for veteran health data that will service 128 installations of the VistA healthcare management system.

***Project Status***

Funded from BY-2003 through BY-2007

Project currently at Milestone-3