

**Health Administrative Product Enhancements (HAPE)  
Electronic Data Interchange (EDI)  
Purchased Care (PC)  
Software Enhancements**

**System Design Document (SDD)  
for  
Healthcare Claims 837 Compliance**



**Department of Veterans Affairs**

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## Revision History

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# 1 Introduction

The mission of the Department of Veterans Affairs (VA), Office of Information and Technology (OI&T), HAPE is to provide information technology (IT) products and services to the Veterans Health Administration (VHA) who in turn provides benefits and services to Veterans of the United States. In meeting these goals, OI&T strives to provide high quality, effective, and efficient IT services to those responsible for providing care to the Veterans at the point-of-care as well as throughout all the points of the Veterans' health care in an effective, timely and compassionate manner. VA depends on information management/information technology (IM/IT) systems to meet mission goals.

The Chief Business Office (CBO) PC assesses the impact of healthcare regulatory requirements on VHA EDI revenue operations and designs the use cases to illustrate the reengineered business process flows associated with technology changes. The office continuously monitors and participates in meetings of industry EDI standards-setting organizations. As the business process owner and subject matter expert (SME) for industry health care EDI mandates, Purchased Care defines business needs that necessitate revenue system software development. The office designs the maintenance and iterative updates to the EDI enterprise tool used to pay healthcare providers for service connected care provided to Veterans. Purchased Care develops partnerships with other Federal agencies and trading partners to support EDI processing and verify compliance; they test software, train users on the use of revised software, and provide help desk support for end users. The EDI transactions processes are utilized to pay nearly \$6B in projected claims annually. The development work done under the scope of Purchased Care is inextricably linked to providing Veterans the medical care they have earned and deserve.

The HAPE EDI portfolio delivers IT products and services to CBO. This PC enhancement project is intended to deliver a range of updates, extensions, and modifications to various financial and administrative systems, processes, files, and reporting mechanisms, including:

- **PC System Enhancements:** Harris will modify vendor data storage and claims processing functionality so payments to small businesses are made in a timely manner per the Prompt Payment Act. Harris will develop reports to verify compliance and data integrity.
- **Health Administration Center (HAC) EDI Claims System Enhancements:** Harris will provide EDI functionality related to referral requests and authorizations in preparation for rules effective January 2016.
- **Electronic Remittance Advice (ERA) (835) Compliance:** To comply with CORE Level III Electronic Funds Transfer (EFT) standards, Harris will modify vendor file and vendor maintenance functionality, Veterans Health Information Systems and Technology Architecture (VistA) Fee, and Claims Processing and Eligibility (CP&E) for beneficiary-related transactions.
- **Health Plan Identifier (HPID) Compliance:** To comply with rules effective Fall 2016, Harris will modify claim transaction functionality related to incoming HPID validation and generation of outgoing EDI transactions to populate the VA HPID.
- **Claims Attachments Compliance:** Harris will create systems to manage the receipt, processing, and storage of claims attachments in preparation for rules effective January 2016.
- **Healthcare Claims 837 Compliance:** Harris will review and modify the 837 transaction flow within VA systems.
- **Caregiver Stipend Payments System (optional task):** Harris will create a rules-based system to calculate stipend payments for caregivers, and create an interface to VA's vendor database and maintenance process, CBOPC Veterans files, and Financial Management System (FMS) payment system.



## 1.1 Purpose of the SDD

This System Design Document (SDD) translates the requirements listed in the corresponding Requirements Specification Document (RSD) into technical design specifications. It identifies the system architecture, and describes hardware, software, communication, and interface design for the Healthcare Claims 837 Compliance project.

The intended audience of this document includes the Product Development (PD), Software Quality Assurance (SQA), the CBO, and staff at the Office of Information and Technology (OI&T) at the Health Administration Center (HAC).

## 1.2 Identification

Harris Corporation's Configuration Management (CM) processes provide the release and control of the system, hardware, and software to which this document applies, including identification number(s), title(s), abbreviation(s), version number(s), and release number(s). Listed below are VA reference and guidance documentation and standards applicable to or tailored for the EDI PC Project. EDI PC will use this guidance to fulfill the performance requirements of this contract.

- 44 U.S.C. § 3541, "Federal Information Security Management Act (FISMA) of 2002"
- Federal Information Processing Standards (FIPS) Publication 140-2, "Security Requirements For Cryptographic Modules"
- Software Engineering Institute, Software Acquisition-Capability Maturity Modeling (SA-CMM) Level 3 procedures and processes
- VA Directive 6102, "Internet/Intranet Services," July 15, 2008
- 36 C.F.R. Part 1194 "Electronic and IT Accessibility Standards," July 1, 2003
- OMB Circular A-130, "Management of Federal Information Resources," November 28, 2000
- 32 C.F.R. Part 199, "Civilian Health and Medical Program of the Uniformed Services (CHAMPUS)"
- An Introductory Resource Guide for Implementing the Health Insurance Portability and Accountability Act (HIPAA) Security Rule, March 2005
- Sections 504 and 508 of the Rehabilitation Act (29 U.S.C. § 794d), as amended by the Workforce Investment Act of 1998 (P.L. 105-220), August 7, 1998
- Homeland Security Presidential Directive (12) (HSPD-12)
- VA Directive 6500, "Information Security Program," August 4, 2006
- VA Handbook 6500, "Information Security Program," September 18, 2007
- VA Handbook, 6500.5, Incorporating Security and Privacy in System Development Lifecycle.
- VA Handbook 6500.6, "Contract Security," March 12, 2010
- Program Management Accountability System (PMAS) portal (reference PWS References - Technical Library at [REDACTED])
- OED ProPath Process Methodology (reference PWS References -Technical Library and ProPath Library links at [REDACTED]) Note: In the event of a conflict, OED ProPath takes precedence over other processes or methodologies.
- Technical Reference Model (TRM) (reference at [REDACTED])
- National Institute Standards and Technology (NIST) Special Publications SP 800-60 and 800-53

- IT Asset Management (ITAM) and Enterprise Management Foundation (EMF) BR-0006, version 002.1-14052008, dated 10/30/2007 [Note informational, Context, and ITAM-EMF Conceptual link]
- Health Insurance Portability and Accountability Act of 1996 (HIPAA; Pub.L 104-191.
- Patient Protection and Affordable Care Act (PPACA), Pub. L. 111-148, 124 Stat. 119, H.R. 3590, enacted March 23, 2010
- Prompt Payment Act
- The aim of this project is to ensure that the EDI PC systems are compliant with the CORE Rules as published by CAQH, and found here [REDACTED]

## 1.3 Scope

This document addresses the software design that will satisfy the technical requirements in the Healthcare Claims (837) Compliance Requirements Specification Document (RSD), which the EDI PC project team developed from the Business Requirements Document (BRD) for the Healthcare Claims 837 Compliance project.

Specifically the business needs that will be addressed are:

BN 2: View EDI file data on the EDI Web Viewer (EWV)

- 2.6 The system shall provide the ability to view EWV without advertisements on the screen
- 2.7 The system shall provide the ability to input a predefined time out duration for the EWV

This document is organized as follows:

- Section 1: Presents introduction, scope, definition and acronyms, and references.
- Section 2: Presents a conceptual design and analysis of the External Interfaces.
- Section 3: Documents the specific technical and design requirements for each software element relevant to the Healthcare Claims (837) Compliance project.
- Section 4: Presents details regarding the system architecture.
- Section 5: Presents details regarding data design, including database management system (DBMS) and data view.
- Section 6: Section 6: Discusses the system's detailed hardware and software design as applicable.
- Section 7: Presents details of the external interface design to the system.
- Section 8: Presents details of the interface between the user and the Purchased Care system.
- Section 9: Presents details of system security mechanisms and privacy design considerations at the application level.
- Section 10: Documents the approval of this SDD by VA OI&T personnel.

## 1.4 Constraining Policies, Directives, and Procedures

This SDD is constrained by the following policies, directives, artifacts, and procedures.

Policies and Directives

- Contract, PWS

- PMAS Guide v4.0, (VAIQ 7023849) Assistant Secretary for Information and Technology (005) Release Memorandum, dated September 17, 2010
- HAPE Program Office Procedures, Policies, Templates
- SEDR Process
- One-VA TRM – Data, Service, Technical (FSAM)
- PMAS Project Documentation Portal
- C&A Division Webpage
- ASC X12N 5010 Health Care Claim Status Request and Response (276/277)

#### VA-generated Artifacts

- Business Requirements Document for EDI PC
- Project Charter

#### VA Standard Procedures

- ProPath Version 8, PRP-2.3, Create System Design Document
- PMAS Readiness Checklist
- VA Section 508 policies and procedures 6221 Accessible Electronic and Information Technology, Directive/Handbook, published by the VA's Section 508 Product Development Product Assessment Competency Division
- 508 compliance testing certifications for each enhancement that requires any change to the graphic user interface.

## 1.5 User Characteristics

The EDI Web Viewer (EWV) is the means by which claims adjudicators can look at an 837 transaction that is stored after it is received by the EDI Server. EWV is a web application written in Java 1.6.0\_43.

### 1.5.1 User Objectives

The objectives of this project are to remove advertising material displayed by EWV and to bring it into compliance with VA standards for page timeouts.

## 1.6 Relationship to Other Documents and Plans

The SDD for Healthcare Claims 837 Compliance project is developed in conjunction with other EDI PC documents, as shown in Table 1.

*Table 1 – EDI PC Documentation*

Document Type	Description
Performance Work Statement (PWS)	Defines work activities, deliverables, and the timeline for the performance of the contracted work, including the SDD development and delivery.
RSD	System design is derived from this document, which details the requirements.
Requirements Traceability Matrix (RTM)	Continuously confirms and validates requirements by providing backward traceability. Also maps individual test cases to each design element and requirement, demonstrating forward traceability.

Document Type	Description
Project Management Plan (PMP)	Describes the approach for managing and monitoring the implementation of the project.
Project Schedule	Details the planned schedule tasks, milestones, and dates necessary to accomplish on-time contractual deliveries.
Test Plan	Provides the testing approach, including specification of the testing scope and objectives, and testing strategy and conduct.
Deployment Plan	Describes the transition and training strategy for deployment.
Certification and Accreditation (C&A) documentation	A set of documents that confirm and certify that the delivered products meet VA requirements. The VA will coordinate this effort.
Quality Assurance Surveillance Plan (QASP)	VA-generated document that describes processes that promote periodic inspections of documents, processes, and the end product.
Configuration Management Plan	Provides the defined CM and change control policies and guidelines that are applied throughout the project life cycle to validate the integrity of systems and components that are placed under its control. Addresses configuration identification, change processes, configuration auditing, and status accounting information.

## 1.7 Definitions, Acronyms, and Abbreviations

The table below lists acronyms and abbreviations applicable to the Healthcare Claims 837 Compliance effort.

*Table 2 – Acronyms and Abbreviations*

TERM	DEFINITION
AERB	Architecture and Engineering Review Board
CBO	Chief Business Office
CI	Component Integration
CIO	Chief Information Officer
CIT	Component Integration Testing
CM	Configuration Management
CMM	Capability Maturity Model
CMP	Configuration Management Plan
COR	Contractor Officer's Representative
CP&E	Claims Processing & Eligibility
DM	Data Management
EDI	Electronic Data Interchange
ERD	Entity Relationship Diagram
EWV	EDI Web Viewer
FAR	Foreign Acquisition Regulations
GFE	Government Furnished Equipment
HAC	Health Administration Center

TERM	DEFINITION
HAPE	Health Administration Production Enhancements
HCCH	Healthcare Clearinghouse
HIPAA	Health Insurance Portability and Accountability Act
HPID	Health Plan Identifier
IEEE	Institute of Electrical and Electronics Engineers
IM	Information Management
IPT	Integrated Project Team
IT	Information Technology
OI&T	Office of Information and Technology
PC	Purchased Care
PD	Product Development
PjM	Project Manager
PM	Program Manager
PMAS	Project Management Accountability System
POC	Point of Contact
PoP	Period of Performance
PPACA	Patient Protection and Affordable Care Act
PWS	Performance Work Statement
QASP	Quality Assurance Surveillance Plan
RSD	Requirements Specification Document
RTM	Requirements Traceability Matrix
SDD	System Design Document
SDE	Service Delivery and Engineering
SDLC	Software Development Life Cycle
SEI	Software Engineering Institute
SME	Subject Matter Expert
SQA	Software Quality Assurance
ST	System Testing
T4	Transformation Twenty-One Total Technology
TO	Task Order
TRR	Test Readiness Review
UFT	User Functionality Testing
VA	Department of Veterans Affairs
VAMC	VA Medical Center
VHA	Veterans Health Administration
VistA	Veterans Health Information Systems and Technology Architecture
VPN	Virtual Private Network

## 1.7.1 Definitions

The table below lists terms and definitions applicable to the Healthcare Claims 837 Compliance effort.

*Table 3 – Terms and Definitions*

TERM	DEFINITION
837 EDI Health Care Claim Payment/Advice	This transaction set is sent by the providers to payers, which include insurance companies, health maintenance organizations (HMOs), preferred provider organizations (PPOs), or government agencies such as Medicare, Medicaid, etc. These transactions may be sent either directly or indirectly via clearinghouses.
ASC X12	The Accredited Standards Committee X12 – is an ANSI-accredited standards development organization and the entity responsible for the HIPAA transaction standards for electronic health care, eligibility, claims processing, claims status, authorizations and remittance transactions named by the Health Insurance Accountability and Portability Act of 1996. The VA is currently operating to version 5010 standards.
CHAMPVA	The Civilian Health and Medical Program of the Department of Veterans Affairs (CHAMPVA) is a comprehensive health benefits program in which the VA shares the cost of covered health care services and supplies with eligible beneficiaries. The program is administered by the Health Administration Center (HAC) located in Denver, Colorado.
CORE®	The Committee on Operating Rules for Information Exchange (CORE®), is an multi-stakeholder initiative created, organized and facilitated by CAQH that is working to make it easier for physicians and hospitals to access eligibility, benefits and claim information for their patients at the point of care.
HIPAA v. 5010	HIPAA version 5010 is the newest set of standards related to the electronic transmission of specific health care transactions such as Health Care Claims, Eligibility Inquiry/Response, and Health Care Claim Remittance Advice.
Payer	An insurance company, fiscal intermediary, government agency, other agency, or individual responsible for the payment of health care claims.

## 1.8 References

- Healthcare Claims 837 Compliance - Phase 2 Iteration 1 BRD, v. 0.1, May 20, 2014
- T4 Performance Work Statement (PWS) for HAPE EDI PC

## 2 Background

EDI claims transactions (837) are received by the EDI Server at the HAC from the healthcare clearinghouse (HCCH). They are stored in an Oracle 11.2.0.3.0 database and then distributed to the appropriate claims processing system based on the affected patient population (Veteran or beneficiary). From time to time, claims adjudicators need to view the contents of the 837 transaction and can do so employing the Electronic Web Viewer (EWV).

This project aims to fix the display of 837 data by the EWV and to bring the screen timeout into compliance with Handbook 6500 requirements.

## **2.1 Overview of the System**

Figure 1 is a high level overview showing how electronic claims and claims related data flow through the health care clearinghouse, the VA systems at the HAC, the VAMC and the AITC, and to and from the provider. Paper claims are mailed to the VAMC and do not enter the system through the clearinghouse. They are entered into the adjudication process either manually or using scanning technology.

The processing of 837 EDI Claims is illustrated in the following diagram as well as all relevant sub-systems. Of particular relevance to this project is the depiction of the EDI Server and the eTrans Repository. The repository is accessed by the EWV to display 837 claim data.

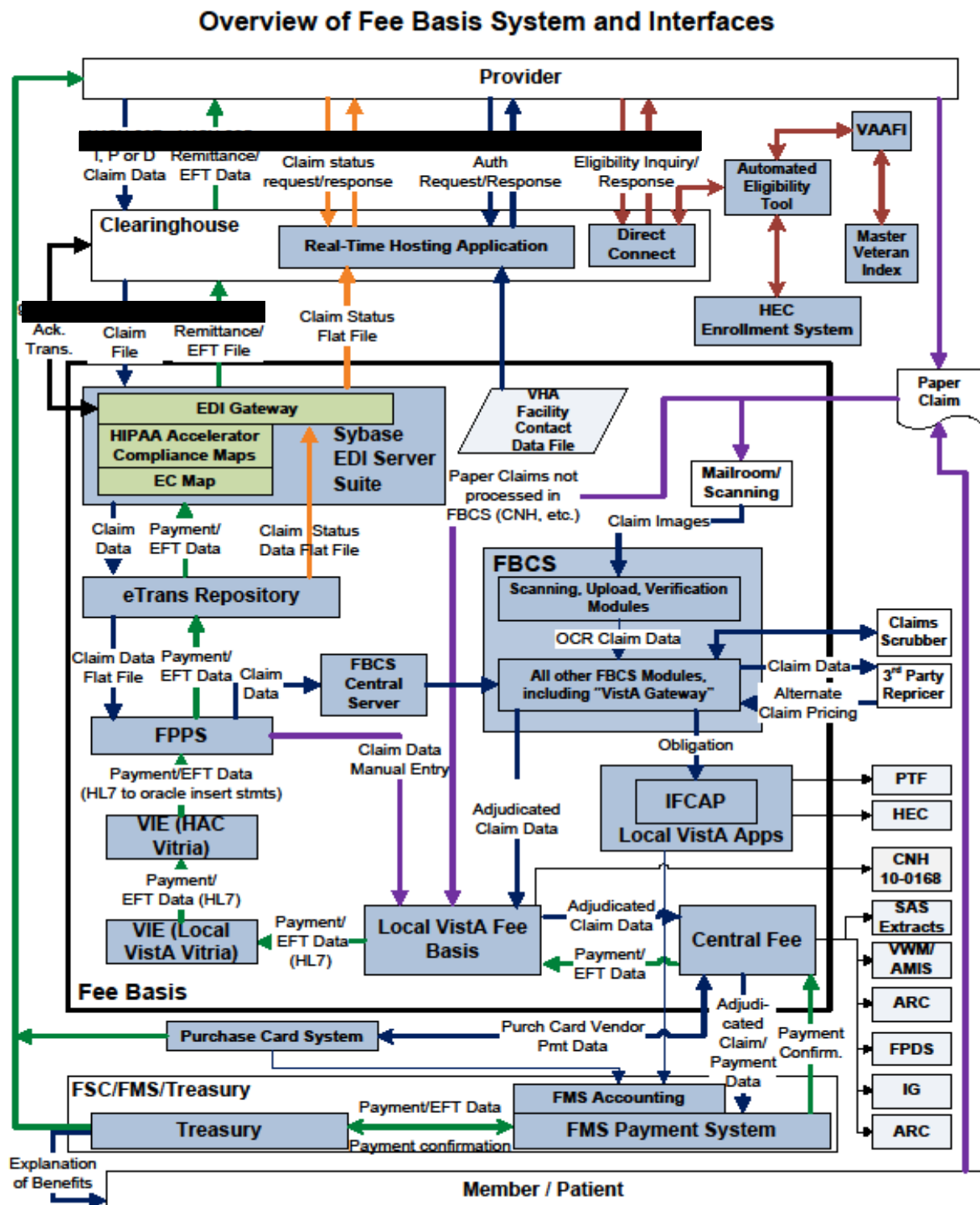


Figure 1 – Overview of Fee Basis System and Interfaces



## **2.2 Overview of the Business Process**

At the HAC, claims adjudicators use the functions of the Claims Processing & Eligibility (CP&E) system to process claims submitted via EDI. There are times, however, when it is necessary for the adjudicator to look at the data on the incoming transaction and not just the extracted data. To perform this inquiry, the claims adjudicator uses EWV. At present, the EWV inappropriately displays information about the contractor that originally developed the software. It needs to be removed. In addition, the screen timeout for EWV screens is inconsistent with the standards described in Handbook 6500. Correcting these two conditions will improve the EWV user's experience.

## **2.3 Business Benefits**

Complies with VA standards.

## **2.4 Assumptions and Constraints**

### **2.4.1 Design Assumptions**

No assumptions were made in the design.

### **2.4.2 Design Constraints**

The Healthcare Claims 837 Compliance project has the following constraints:

- The solution will need to meet VA Enterprise Standards for development language, security, 508 compliance, web framework, application framework, and integration with other VA systems.
- Timely acquisition of all new or allocated hardware resources approved by the Government for project development.

### **2.4.3 Design Trade-offs**

N/A

## **2.5 Overview of the Significant Requirements**

N/A

### **2.5.1 Overview of Significant Functional Requirements**

N/A

### **2.5.2 Overview of Functional Workload / Performance Requirements**

N/A

### **2.5.3 Operational Requirements**

N/A

## **2.5.4 Overview of the Technical Requirements**

N/A

## **2.5.5 Overview of the Security or Privacy Requirements**

N/A

## **2.5.6 Overview of System Criticality and High Availability Requirements**

N/A

## **2.5.7 Single Sign-on Requirement**

N/A

## **2.5.8 Requirement for Use of Enterprise Portals**

N/A

## **2.5.9 Special Device Requirements**

N/A

## **2.6 Legacy System Retirement**

N/A

# **3 Conceptual Design**

The proposed changes are in accord with VA standards as stated in Handbook 6500.

## **3.1 Conceptual Application Design**

N/A

### **3.1.1 Application Context**

N/A

### **3.1.2 High Level Application Design**

N/A

### **3.1.3 Application Locations**

The EWV is used by claims adjudicators located at the HAC.

## **3.2 Conceptual Data Design**

N/A

### **3.2.1 Project Conceptual Data Model**

N/A

### **3.2.2 Database Information**

N/A

### **3.2.3 User Interface Data Mapping**

N/A

#### **3.2.3.1 Application Screen Interface**

N/A

##### **3.2.3.1.1 No User Screen(s) Required**

N/A

#### **3.2.3.2 Application Report Interface**

N/A

##### **3.2.3.2.1 <Insert Name of Report>**

N/A

#### **3.2.3.3 Unmapped Data Element**

N/A

## **3.3 Conceptual Infrastructure Design**

Coding change only. No changes to the infrastructure are required.

### **3.3.1 System Criticality and High Availability**

Proposed changes do not impact on this subject.

### **3.3.2 Special Technology**

N/A

### **3.3.3 Technology Locations**

The EWV is used by claims adjudicators at the HAC.

### **3.3.4 Conceptual Infrastructure Diagram**

#### **3.3.4.1 Location of Environments and External Interfaces**

N/A

#### **3.3.4.2 Conceptual Production String Diagram**

N/A

## **4 System Architecture**

The EDI Web Viewer is hosted on the HAC's Virtual Environment. Hardware and software are standard VA configuration using currently approved versions.

### **4.1 Hardware Architecture**

No change to the architecture described above is required by the software change described in this SDD.

### **4.2 Software Architecture**

No change to the architecture described above is required by the software change described in this SDD.

### **4.3 Network Architecture**

No change to the architecture described above is required by the software change described in this SDD.

### **4.4 Service Oriented Architecture / ESS**

There is no change to existing Service Oriented Architecture.

### **4.5 Enterprise Architecture**

There is no change to existing Enterprise Architecture.

## **5 Data Design**

Coding change only. No changes are being made to the data design.

### **5.1 DBMS Files**

N/A

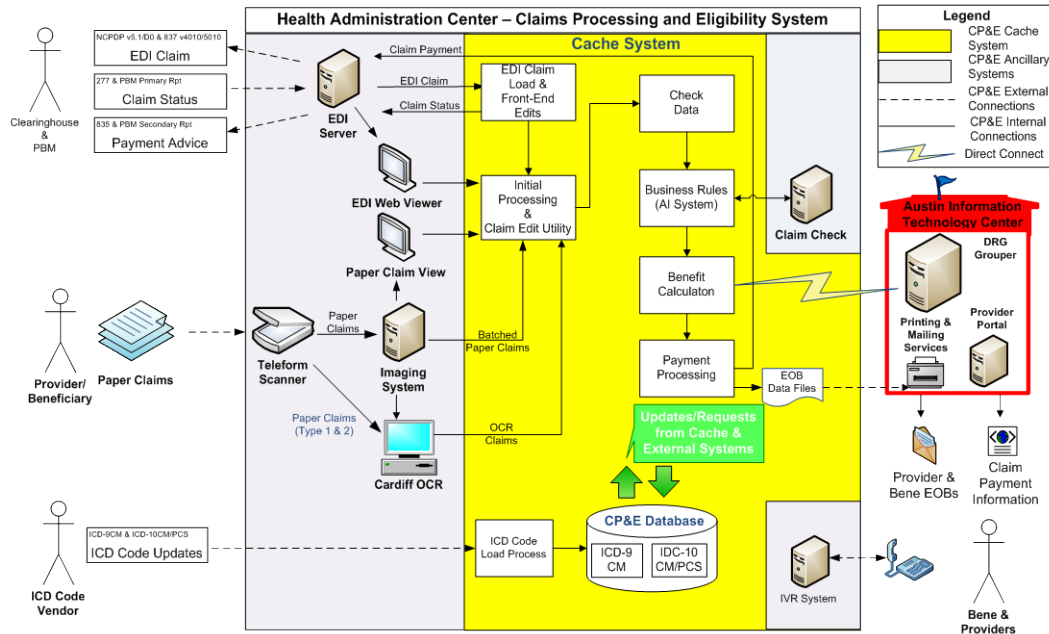
### **5.2 Non-DBMS Files**

N/A

## 5.3 Data View

N/A

## 6 Detailed Design



There are two changes to be made to the internal operation of the EDI Web Viewer (EWV), a Java 1.6.0\_43 application that is shown in the diagram above. First, the EWV will be modified to remove the previous contractor's name and logo. Second, the page timeout will be changed to conform to standards as listed in VA Handbook 6500.

### 6.1 Hardware Detailed Design

The changes described above do not affect the existing hardware configuration.

### 6.2 Software Detailed Design

The changes described above are modifications to Java 1.6.0\_43 code in the EWV.

#### 6.2.1 Conceptual Design

##### 6.2.1.1 Product Perspective

##### 6.2.1.1.1 Product Perspective

##### 6.2.1.1.2 User Interfaces

EWV will continue to operate as it currently does with extraneous information removed from the display and with page timeout set to the VA standard.

#### **6.2.1.1.3 Software Interfaces**

There will be no other changes to the EWV.

#### **6.2.1.1.4 Communications Interfaces**

There will be no changes to communication interfaces.

#### **6.2.1.1.5 Memory Constraints**

There will be no changes related to memory constraints.

#### **6.2.1.1.6 Special Operations**

There will be no changes related to special operations.

### **6.2.1.2 Product Features**

As state above, EWV will continue to operate as it does currently except for the removal of extraneous information from the display and a change to the page timeout.

#### **6.2.1.3 User Characteristics**

The users of the EWV will continue to be claims adjudicators at the HAC.

#### **6.2.1.4 Dependencies and Constraints**

There will be no unusual dependencies or constraints

## **6.2.2 Specific Requirements**

### **6.2.2.1 Database Repository**

This is a software process change only.

### **6.2.2.2 System Features**

The previous contractor's name and logo will be removed from the display. The page timeout will be set according to VA standards.

### **6.2.2.3 Design Element Tables**

N/A – Not VistA

#### **6.2.2.3.1 Routines (Entry Points)**

N/A – Not VistA

#### **6.2.2.3.2 Templates**

N/A – Not VistA

#### **6.2.2.3.3 Bulletins**

N/A – Not VistA

#### **6.2.2.3.4 Data Entries Affected by the Design**

N/A – Not VistA

#### **6.2.2.3.5 Unique Records**

N/A – Not VistA

#### **6.2.2.3.6 File or Global Size Changes**

N/A – Not VistA

#### **6.2.2.3.7 Mail Groups**

N/A – Not VistA

#### **6.2.2.3.8 Security Keys**

N/A – Not VistA

#### **6.2.2.3.9 Options**

N/A – Not VistA

#### **6.2.2.3.10 Protocols**

N/A – Not VistA

#### **6.2.2.3.11 Remote Procedure Call (RPC)**

N/A – Not VistA

#### **6.2.2.3.12 Constants Defined in Interface**

N/A – Not VistA

#### **6.2.2.3.13 Variables Defined in Interface**

N/A – Not VistA

#### **6.2.2.3.14 Types Defined in Interface**

N/A – Not VistA

#### **6.2.2.3.15 GUI**

N/A – Not VistA

#### **6.2.2.3.16 GUI Classes**

N/A – Not VistA

#### **6.2.2.3.17 Current Form**

N/A – Not VistA

#### **6.2.2.3.18 Modified Form**

N/A – Not VistA

#### **6.2.2.3.19 Components on Form**

N/A – Not VistA

#### **6.2.2.3.20 Event**

N/A – Not VistA

#### **6.2.2.3.21 Methods**

N/A – Not VistA

#### **6.2.2.3.22 Special References**

N/A – Not VistA

#### **6.2.2.3.23 Class Events**

N/A – Not VistA

#### **6.2.2.3.24 Class Methods**

N/A – Not VistA

#### **6.2.2.3.25 Class Properties**

N/A – Not VistA

#### **6.2.2.3.26 Uses Clause**

N/A – Not VistA

#### **6.2.2.3.27 Forms**

N/A – Not VistA

#### **6.2.2.3.28 Functions**

N/A – Not VistA

#### **6.2.2.3.29 Dialog**

N/A – Not VistA

#### **6.2.2.3.30 Help Frame**

N/A – Not VistA

#### **6.2.2.3.31 HL7 Application Parameter**

N/A – Not VistA

#### **6.2.2.3.32 HL7 Logical Link**

N/A – Not VistA

#### **6.2.2.3.33 COTS Interface**

N/A – Not VistA



## **6.3 Network Detailed Design**

The changes are internal software processes only.

## **6.4 Service Oriented Architecture / ESS Detailed Design**

The changes are internal software processes only.

### **6.4.1 Service Description for <Consumed Service Name>**

### **6.4.2 Service Design for <Provided Service Name>**

#### **6.4.2.1 Introduction**

##### **6.4.2.1.1 Purpose and Scope of Service**

##### **6.4.2.1.2 Links to Other Documents**

#### **6.4.2.2 Service Details**

##### **6.4.2.2.1 Service Identification**

##### **6.4.2.2.2 Service Versions**

##### **6.4.2.2.3 Summary of Design and Platform Details**

###### **6.4.2.2.3.1 SOA Pattern(s) Implemented**

###### **6.4.2.2.3.2 COTS Platform vendor names and versions for hosting platform**

#### **6.4.2.3 Dependencies**

#### **6.4.2.4 Service Design Details**

##### **6.4.2.4.1 Interface Technical Specs**

###### **6.4.2.4.1.1 Service Invocation Type**

###### **6.4.2.4.1.2 Service Interface Type**

###### **6.4.2.4.1.3 Service Name**

###### **6.4.2.4.1.4 Interface**

###### **6.4.2.4.1.5 End Points**

###### **6.4.2.4.1.6 Operations or Methods**

###### **6.4.2.4.1.7 Message Schemas**

#### **6.4.2.4.2 Information Model**

##### **6.4.2.4.2.1 Class Diagram and Description of Entities Involved**

##### **6.4.2.4.2.2 Mappings from ELDM to Standards Based Schemas**

#### **6.4.2.4.3 Behavior Model (AKA Use Case Realization)**

##### **6.4.2.4.3.1 Use Cases (Use Case Model)**

##### **6.4.2.4.3.2 Interaction Diagrams**

#### **6.4.2.5 Gap Analysis**

##### **6.4.2.5.1 Variances from Enterprise Target Architecture**

##### **6.4.2.5.2 Variances from SLDs**

##### **6.4.2.5.3 Variances from Standards and Policies**

##### **6.4.2.5.4 Justification for Exceptions and Mitigation**

## **7 External Interface Design**

The changes are internal software processes only.

### **7.1 Interface Architecture**

### **7.2 Interface Detailed Design**

## **8 Human Machine Interface**

Interface design rules will remain unchanged from the current product.

## **8.1 Interface Design Rules**

## **8.2 Inputs**

## **8.3 Outputs**

## **8.4 Navigation Hierarchy**

# **9 Security and Privacy**

There are no changes to security features or privacy requirements.

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## A. Attachment A - Approval Signatures

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Signed:

Date:

[REDACTED]

VA Business Sponsor  
Electronic Data Interchange

---

Signed:

Date:

[REDACTED]

VA IT Program Manager  
Electronic Data Interchange

---

Signed:

Date:

[REDACTED]

VA Project Manager  
Electronic Data Interchange

---

Signed:

Date:

[REDACTED]

Integrated Project Team (IPT) Chair  
Electronic Data Interchange

---

Signed:

Date:

[REDACTED]

Integrated Project Team (IPT) Chair  
Electronic Data Interchange

---

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
<Name>  
Architecture and Engineering Review Board (AERB) Chair  
Electronic Data Interchange

---

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
[Redacted]  
Service Delivery and Engineering (SDE) Representative  
Electronic Data Interchange

---

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
[Redacted]  
CIO, HAC Office of Information and Technology (OI&T)  
Electronic Data Interchange