

# State of Vermont Department of Vermont Health Access Integrated Eligibility & Enrollment Program

## **Mini Charter**

**Business Intelligence – Phase 1** 

Date of Publication: 06/11/2018

## **Business Intelligence Charter**

## **Background**

#### Problem

#### Background

The Department of Vermont Health Access (DVHA), Health Access Eligibility and Enrollment Unit (HAEEU) must replace its current system for reporting. The current system utilizes an Oracle software known as Oracle Business Intelligence Enterprise (OBIEE) and Oracle Data Integrator (ODI).

OBIEE is used by HAEEU for its data reporting needs including ad-hoc query generation and analysis, dashboard and scorecard generation and Online Analytical Processing (OLAP). The OBIEE data warehouse was originally established for HAEEU by the original build of Vermont Health Connect (VHC).

The Oracle Data Integrator (ODI) is an extract, load and transform tool produced by Oracle that offers a graphical environment to build, manage and maintain data integration processes in business intelligence systems.

The State of Vermont has chosen to replace OBIEE and ODI with Microsoft SQL Server. Microsoft SQL Server is already used broadly throughout the Agency of Human Services. This option is more affordable and enables in-house State of Vermont expertise to sustain support and maintenance of the solution.

#### Problem statement

The replacement of these systems is required for the following reasons:

#### Cost avoidance

- The State believes that leveraging existing SQL Servers will be more cost effective than continuing to leverage Oracle tools for data analytics.
- DVHA has committed to replace contracted reporting resources with state staff in order to reduce budgetary impact.

#### **Resource Shortcomings**

- The State does not have in house expertise to build and maintain OBIEE and acquiring those resources has proven to be challenging.
- Maintaining the current OBIEE warehouse is manually intensive and time consuming for State staff.

#### **Constrained System Performance**

- Consolidating all IE&E Program data into one solution will help meet IE&E's goal of improving data integrity and robust access to data for analysis, reporting and modeling to staff.
- The State continues to struggle with data warehouse performance. Specifically, the State records a high error rate in data transmission and loading.

## **Business Intelligence Charter**

### Core Project Team

Executive Sponsor: Cassandra Madison

Product Owner: Kathy Purdy

Project Manager: Kenan Nurkanovic

HAEEU Reporting and Data Quality Lead: Roseanne Colasurdo

Procurement Representative: N/A OCM Representative: Devon Downing

Technical Lead: Joshua Harless Security Lead: Emily Wivell

## **Critical Project Partners**

HAEEU Reporting and Data Quality Representative: Kara Williams

HAEEU Deputy Director of Operations: Sean Sheehan

ADS Director of Digital Services: Darin Prail

ADS CTO: Mark Combs

ESD IT: TBD

Archetype Engagement Manager: Michelle Prior

## Vision

The desired outcome of this project is to migrate the data from the OBIEE data warehouse to Microsoft SQL Server. The new system will be easier for staff to use, enable self-service, and allow for real-time reporting and analytics.

## **Business Intelligence Charter**

 $\textbf{Goals} \ \ \text{Use SMART measures: Specific, Measurable, Attainable, Realistic, and Time-bound.}$ 

| Goal  | Measure(s)   |  |
|---|--|--|
| Achieve operational reporting independence  | Archetype Ad Hoc reporting cost reduced by 100% by 7/1/19  |  |
| Reduce ongoing operating expense  | Reduce SoV financial outlay by \$1M per year starting 2020   |  |
| Increase VT's reporting capabilities  | <ul> <li>Reduce cycle time (lag) between data request to delivery</li> <li>Reduce daily data load time</li> <li>Availability of previous day's data</li> </ul> |  |
| Increase staff customer satisfaction  | Increase timely, accuracy and reduce backlog and duplication of delivered reports.   |  |
| Ensure that the State can maintain and successfully transmit 1095 and enrollment data to federal partners | <ul> <li>10% increase of 1095 reports delivered timely</li> <li>10% decrease of Error rates</li> </ul>   |  |
| Automat nightly data loads into data warehouse  | <ul> <li>Increase success rate by 30%</li> <li>Reduce data load run time by 30%</li> </ul>   |  |

## Scope

The State is moving to a SQL data warehouse and structure in order to be compatible with the State's other systems as we move to an Integrated Eligibility and Enrollment solution. Specific activities included in scope for this project are as follows:

#### Requirements Gathering Activities:

- Report Definitions
- List of required Siebel Objects
- Report list to data warehouse fields comparison
- 1095A/B Requirements
- CMS Reporting Requirements
- Interface/Integration Requirements (SFTP endpoints, file layouts, delivery schedules)
- Comprehensive Calendar of Reports

## **Business Intelligence Charter**

- Notification Protocols
- Data Models
- List of Data Warehouse Objects
- Map of Incorrect fields that need to be corrected in new system

#### Pre-Requisite Activities:

- Update CMS with Migration Plan and submit for approval
- Security access to source data systems for SOV Database Administrators
- Firewall Rules Setup for SoV SSIS servers to Seibel
- DBA/Data Services SQL Training
- Test Connectivity and Throughput

## VHC Activities:

- Develop VHC work plan
- Develop MOU
- Conduct gap analysis
- Report requirements
- Review and verify warehouse design

#### Database Design Activities:

- Develop Objects for staging data in Siebel format
- Develop Data Warehouse

#### ETL Load Activities:

- Create ETL process to move data from Siebel to SoV SQL Server (staging)
- Create ETL process to move data from staging to data warehouse
- Create ETL process to generate data marts
- Create ETL process for RPD

#### ETL Interface Activities:

- Create ETL process for 1095a notices (include correction runs)
- Create ETL process for 1095b notices (include correction runs)
- Create ETL process for 1095A/1095B verification to/from IRS (full and corrections)
- Create ETL process to verify errors received from IRS
- Create Medicaid job to process passive renewals (full and updates)
- Create QHP job to process passive renewals (full and updates)

#### SSRS Design Activities:

• Create Reports

## **Business Intelligence Charter**

- User-generated reports (self-service)
- Automated notices

#### Testing Activities:

- Unit Testing
- User Acceptance Testing

#### Cutover Activities:

- Promote reports to production
- Promote ETL Packages to production
- Run production in parallel to OBIEE/ODI
- Triage discrepancies between BI production and OBIEE/ODI
- User Validation

## Budget\*

Initial Estimate 6/7/18:

Professional Services Consultant: \$529,975 State of Vermont Staff \$884,888 Software License \$2,500 Vendor System Configuration TBD

## **Timeline**

Initiate project by 03/05/18

Complete development requirements by 06/30/18

Complete and get approval for project charter by 06/30/18

Complete warehouse design/development by 07/06/18

Complete ETL DataLoad activities by 09/21/18

Complete report requirements by 9/30/18

Complete ETL Interfaces by 11/30/18

Complete SSRS Design by 12/28/18

Complete User Acceptance testing by 5/4/19

Production Cutover by 5/6/19

Complete Cutover by 6/30/19

<sup>\*</sup> Note: all IT projects, regardless of dollar amount, require completion of an ABC form.

# **Business Intelligence Charter**

# **Mini-Charter Version History**

| Date       | Description   | Version |
|------------|---|---------|
| 03/26/2018 | Initial Draft   | 1.0     |
| 03/30/2018 | Revisions based on initial feedback                           | 2.0     |
| 05/11/2018 | Revisions based on feedback from 18F & VHC Core Team          | 3.0     |
| 05/15/2018 | Add cost for Power BI s/w                                     | 4.0     |
| 05/17/2018 | Updated timeline  | 5.0     |
| 05/30/2018 | Revisions based on feedback                                   | 6.0     |
| 06/07/2018 | Revisions based on feedback                                   | 7.0     |
| 06/10/2018 | Revisions based on feedback from Marie Hayward                | 8.0     |
| 6/11/2018  | Updated project name to include "Phase 1" and added ESD IT to | 9.0     |
|            | critical partners.  |         |
| 6/11/2018  | Updated signature page  | 10.0    |

# **Version 10.0 Signatures**

| Name                | Role            | Title   | Signature |
|---------------------|-----------------|---|-----------|
| Cassandra Madison   | Program Sponsor | DVHA Deputy Commissioner                      |           |
| Amy Marshall-Carney | Program Manager | IE&E Program Manager                          |           |
| Kathy Purdy         | Product Owner   | VHC Eligibility & Enrollment Data<br>Director |           |