Community Care Veterans Billing Statement

Data Dictionary (Database) Document



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Revision History

| Date | Version | Description | Author |
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| 04/27/2021 | 1.0 | Initial draft | Hanimireddy |

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# **Introduction**

The Veterans Health Administration (VHA) Chief Business Office (CBO) is requesting software enhancements to satisfy the following congressional directive:

Veterans Benefits and Transition Act of 2018

Delivery of debt notices by standard mail and electronic means.—The Secretary shall develop a method by which individuals may elect to receive notice of debt by electronic means and shall ensure, to the extent practicable, that the letter developed is delivered by both standard mail and by electronic means to intended recipients.

The Patient Statement Enhancement (PSE) Community Care Veterans Billing Statement (CCVBS) project will allow Veterans secured access to the last six months of their billing statements online.

## **Scope**

The requirements will be listed in GitHub.

## **User Profiles**

# **Overview of the System**

The system will allow the Veteran to access an online copy of their billing statements that they currently receive by mail. The components for the system will reside entirely in the VAEC Amazon Web Services (AWS) govcloud. The Consolidated Copayment Processing Center (CCPC) mainframe application that currently processes paper statements will transfer the data via SFTP to the CCVBS application. A background Statement Processing Service will retrieve that data, parse it, and send the Statement Data to a Statement Data Service component, which will store it in a Dynamo DB database repository.

When a Veteran accesses the CCVBS Web App with a fully qualified logon, through AccessVA, (with a DSLogon, an ID.me logon or an elevated Identity and Access Management [IAM] acceptable MHV login), the billing statement can be chosen from a list of available statements in a pull-down field. This list includes the last 6 months of billable transactions, arranged by facility and by date. Once the View button is selected by the Veteran, the chosen statement will appear in a separate window that resembles that appearance of the standard CCPC-mailed statements.

# **Data Layer**

Data within the CCVBS application is stored with AWS Dynamo DB. Amazon DynamoDB is a fully managed non-relational database service that provides fast and predictable performance with seamless scalability.

## **Data Dictionary**

Table: Statement

For the statement table a primary partition key (GUID) is generated by the CCVBS application. A global secondary index (GSI) is keyed with the Account Number field (PH\_ACCOUNT\_NUMBER). This allows the application to query statement records using the Account Number without doing a table scan.

Table 1

| PK/GSI | Field Name | Data Type | Comments |
| --- | --- | --- | --- |
| PK | Id (GUID) | String | Required.  System generates the Unique UUID for each statement stored in Database.  \*PK – Primary Partition Key |
| GSI | PH\_ACCOUNT\_NUMBER | Number | Required.  \*GSI – Global Secondary Index |
|  | PH\_ADDRESS\_1 | String | Veteran Address1 |
|  | PH\_ADDRESS\_2 | String | Veteran Address2 |
|  | PH\_ADDRESS\_3 | String | Veteran Address3 |
|  | PH\_AMT\_DUE | Number | Total Amount Due |
|  | PH\_CITY | String | Veteran Address City |
|  | PH\_DFN\_NUMBER | Number | Unique Veteran Number |
|  | PH\_Large\_Font\_Indcator | Number | Received from CCPC not used\*\* |
|  | PH\_NEW\_BALANCE | Number | New Balance Amount |
|  | PH\_NUM\_OF\_LINES | Number | Received from CCPC not used\*\* |
|  | PH\_PATIENT\_FST\_NME | String | Veteran First Name |
|  | PH\_PATIENT\_LST\_NME | String | Veteran Last Name |
|  | PH\_PATIENT\_MID\_NME | String | Veteran Middle Name |
|  | PH\_PREV\_BA | Number | The balance from the previous billing statement. If no previous statement exists print: 0.00 |
|  | PH\_R\_O\_PARA\_CDES | String | Received from CCPC not used\*\* |
|  | PH\_SPECIAL\_NOTES | String | Special Notes field from the primary site. |
|  | PH\_STATE | String | Patient Address State |
|  | PH\_TOT\_CHARGES | Number | The grand total of all new charges from each facility. |
|  | PH\_TOT\_CREDITS | Number | Grand total of all “PAYMENTS POSTED ON mm/dd/yyyy” for all facilities listed on the consolidated billing statement. |
|  | PH\_ZIP\_CDE | String | Patient Address Zip Code |
|  | PS\_FACILITY\_NUM | String | Patient Facility Number |
|  | PS\_PROCESS\_DATE | String | Patient Statement Process \*\* |
|  | PS\_SEQ\_NUM | Number | Sequence Number |
|  | PS\_STATEMENT\_DATE | String | The date the new Consolidated Billing Statement System (CBSS) will generate the Consolidated Billing Statement (CBS) data file and send it to the AITC each month. |
|  | PS\_STATEMENT\_VAL | String | \*\* |
|  | PS\_TOT\_SEQ\_NUM | Number | \*\* |
|  | PS\_TOT\_STATEMENT | Number | \*\* |
|  | \*\*\*\*Statement Details\*\*\* |  | Statement Details are stored as part of the Statement table. |
|  | PD\_TRANS\_DESC | String | Transaction Description |
|  | PD\_TRANS\_AMT | Number | Transaction Amount |
|  | PD\_REF\_NO | String | Transaction Billing Reference |
|  | PD\_DATE\_POSTED | String | Date posted on CBS |

Table: Stations

For the Stations table a primary partition key is FACILITY\_NUM.

Table 2

| PK/GSI | Field Name | Data Type | Comments |
| --- | --- | --- | --- |
| PK | FACILITY\_NUM | String | Required. Primary Partition Key.  Unique Key  AR station number or ‘XXXXX’ will be used to obtain the lockbox address |
|  | BAR\_CDE | String | Bar code of station’s primary address |
|  | CYCLE\_NUM | String | Code indicating which print cycle this station belongs to |
|  | FACILITY\_DESC | String | Station name (e.g., ‘Temple Medical Center’) |
|  | STAT\_ADDRESS\_1 | String | VA facility Address |
|  | STAT\_ADDRESS\_2 | String | VA facility Address |
|  | STAT\_ADDRESS\_3 | String | VA facility Address |
|  | CITY | String | VA facility Address City |
|  | STATE | String | VA facility Address State |
|  | ZIP\_CDE | String | VA facility Address Zip Code |
|  | MAIL\_INSERT\_FLAG | String | Flag indicating type of inserts to be included when mailing statements for this station |
|  | REMIT\_TO\_FLAG | String | Flag indicating whether to use the station, the lockbox, or the remit to address for remittance |
|  | TEL\_NUM | String | The phone number of the HRC Call Center facility that supports the Veteran. |
|  | TEL\_NUM\_2 | String | Secondary telephone number |
|  | TEL\_NUM\_FLAG | String | Telephone number flag. Indicates which phone number to use, ‘P’rimary or ‘S’econdary |
|  | TOP\_TEL\_NUM | String | Station TOP contact’s telephone number |
|  | VISN\_NUM | String | Vision number |
|  | CONTACT\_INFO | String | Station contact information |
|  | CONTACT\_INFO2 | String | Secondary station contacts information |
|  | DM2\_TEL\_NUM | String | Station TOP contact’s telephone number |
|  | LBX\_FEDEX\_ADDRESS1 | String | Station FedEx first address line |
|  | LBX\_FEDEX\_ADDRESS2 | String | Station FedEx first address line |
|  | LBX\_FEDEX\_ADDRESS3 | String | Station FedEx first address line |
|  | LBX\_FEDEX\_BAR\_CDE | String | Station FedEx address’ bar code |
|  | LBX\_FEDEX\_CITY | String | Station FedEx City |
|  | LBX\_FEDEX\_CONTACT | String | Station FedEx contact information |
|  | LBX\_FEDEX\_CONTACT\_TEL\_NUM | String | Station FedEx contact’s telephone number |
|  | LBX\_FEDEX\_STATE | String | Station FedEx State |
|  | LBX\_FEDEX\_ZIP\_CDE | String | Station FedEx zip code |

Table 3

Table: Logs

| PK/GSI | Field Name | Data Type | Comments |
| --- | --- | --- | --- |
| PK | FileKey | String | CCPC input File Key |

**Sample Data in DB:**

{

"Details": [

{

"PD\_DATE\_POSTED": "07222005",

"PD\_REF\_NO": "442-K502ATX",

"PD\_TRANS\_AMT": 7,

"PD\_TRANS\_DESC": "COPAY RX:721915C FD:07/22/2005"

},

{

"PD\_TRANS\_AMT": 0,

"PD\_TRANS\_DESC": "DRUG:LORAZEPAM 0.5MG TAB DAYS:30 QTY:60"

},

{

"PD\_TRANS\_AMT": 0,

"PD\_TRANS\_DESC": "PHY:NUTTING,LESLIE J CHG:$7.00"

},

{

"PD\_DATE\_POSTED": "07252005",

"PD\_REF\_NO": "442-K502ATX",

"PD\_TRANS\_AMT": 7,

"PD\_TRANS\_DESC": "COPAY RX:679181C FD:07/22/2005"

},

{

"PD\_TRANS\_AMT": 0,

"PD\_TRANS\_DESC": "DRUG:ETODOLAC 300MG CAP DAYS:30 QTY:90"

},

{

"PD\_TRANS\_AMT": 0,

"PD\_TRANS\_DESC": "PHY:NUTTING,LESLIE J CHG:$7.00"

},

{

"PD\_DATE\_POSTED": "08092005",

"PD\_REF\_NO": "442-K502ATX",

"PD\_TRANS\_AMT": 7,

"PD\_TRANS\_DESC": "COPAY RX:721915C FD:08/09/2005"

},

{

"PD\_TRANS\_AMT": 0,

"PD\_TRANS\_DESC": "DRUG:LORAZEPAM 0.5MG TAB DAYS:30 QTY:60"

},

{

"PD\_TRANS\_AMT": 0,

"PD\_TRANS\_DESC": "PHY:NUTTING,LESLIE J CHG:$7.00"

}

],

"Id": "6a2ea96e-af18-4f63-abc9-d66d90859834",

"PH\_ACCOUNT\_NUMBER": 4420000000003766,

"PH\_ADDRESS\_1": "P.O. BOX 6662",

"PH\_AMT\_DUE": 28,

"PH\_CITY": "CHEYENNE",

"PH\_DFN\_NUMBER": 3766,

"PH\_Large\_Font\_Indcator": 0,

"PH\_NEW\_BALANCE": 28,

"PH\_NUM\_OF\_LINES": 9,

"PH\_PATIENT\_FST\_NME": "ZXXELHA",

"PH\_PATIENT\_LST\_NME": "TEST TEST",

"PH\_PATIENT\_MID\_NME": "A",

"PH\_PREV\_BAL": 7,

"PH\_R\_O\_PARA\_CDES": "254050556065708085",

"PH\_SPECIAL\_NOTES": "CALL 1-866-393-1846 FOR ASSISTANCE WITH YOUR MONTHLY STATEMENT",

"PH\_STATE": "WY",

"PH\_TOT\_CHARGES": 21,

"PH\_TOT\_CREDITS": 0,

"PH\_ZIP\_CDE": "82003",

"PS\_FACILITY\_NUM": "442",

"PS\_PROCESS\_DATE": "09162019",

"PS\_SEQ\_NUM": 1,

"PS\_STATEMENT\_DATE": "09212019",

"PS\_STATEMENT\_VAL": "0000000280{",

"PS\_TOT\_SEQ\_NUM": 1,

"PS\_TOT\_STATEMENT": 1,

"Station": {

"BAR\_CDE": "\*820015356604\*",

"CITY": "CHEYENNE",

"CYCLE\_NUM": "018",

"FACILITY\_DESC": "CHEYENNE VA MEDICAL CENTER (442)",

"FACILITY\_NUM": "442",

"MAIL\_INSERT\_FLAG": "0",

"REMIT\_TO\_FLAG": "L",

"STAT\_ADDRESS\_1": "2360 E PERSHING BLVD",

"STATE": "WY",

"TEL\_NUM": "1-866-393-1846",

"TEL\_NUM\_FLAG": "P",

"VISN\_NUM": "19",

"ZIP\_CDE": "820015356"

}

}

## **Data Model**

Figure 1: Conceptual Data Model

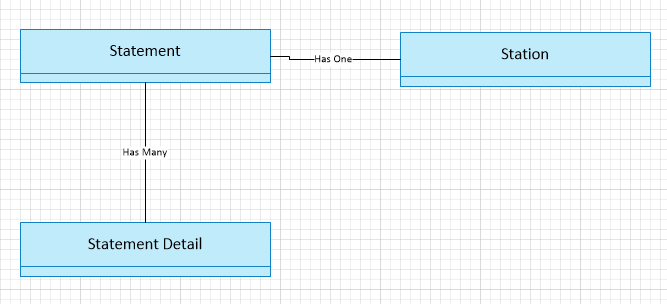


Figure 2: Data Model

