**MCCF EDI TAS US601**

System Design Document



Department of Veterans Affairs

**May 2017**

Version 1.00

**User Story Number:** USRX-47

**User Story Name:** Allow the user to select multiple rejects when using the OCN Open/Close Non-Billable Entry action on the ECME User screen. Model after CLO Close Claim.

**Product Backlog ID:**

**Backlog Priority:**

**Initial Sizing Estimate:**

**Rational ID:** tbd

**Rally ID:** US601

# Design – Summary

Currently the OCN Open/Close Non-Billable Entry action allows selection of only one claim. This update will allow the user to select multiple claims to be processed. The method of selecting claims to be opened or closed will be the same as the method the CLO Close Claim action uses. Selected claims can be entered in the following ways:

* Separated by commas; 3.1,4.1
* A range; 3.1-3.2
* A combination of a range and separated by commas; 3.1-3.2,4.1

If the user’s selections do not contain any Non-Billable claims, a message will be displayed to the user before returning them to the ECME User Screen. Of the Non-Billable claims entered, the system will determine if the claim is currently opened or closed. Claims that are currently opened will be closed, and claims that are currently closed will be re-opened. Before opening/closing any claims, a summary of the claims will be displayed to the user for confirmation. Just as the current functionality works, a comment will be required. For the updated OCN action, the comment entered will be applied to all of the selected Non-Billable claims.

List of Components:

* Routine: BPSSCRN0

# Design – Detail

All modifications will be made in routine BPSSCRN0. The logic will be changed from calling ASKLINE^BPSSCRU4 to ASKLINES^BPSSCRU4. The ASKLINES entry point contains existing logic for dealing with the selection of multiple claims. This is the entry point used by CLO Close Action for selecting multiple claims.

ASKLINES returns the user’s selections in an array. A new procedure will be created to re-sort the selected entries. The new array will group the claims by Billable claims, Open Non-Billable claims and Closed Non-Billable claims.

| Subroutine Name | **OC^BPSSCRN0** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Enhancement Category | New | Modify | | | Delete | | No Change | |
| Story | US601 | | | | | | | |
| Related Menu Options or ListMan Actions | OCN Open/Close Non-Billable Claims | | | | | | | |
| Related Routines | This Subroutine is Called By | | | This Subroutine Calls | | | | |
| OCN Open/Close Non-Billable Claims action from the ECME User Screen | | | FULL^VALM1  $$ASKLINES^BPSSCRU4  PAUSE^VALM1  DISPREJ^BPSSCRU6  $$COMMENT^BPSSCRCL  $$TRIM^XLFSTR  $$YESNO^BPSSCRRS  ^DIE  REDRAW^BPSSCRUD | | | | |
| Related Integration Control Registrations (ICRs) | n/a | | | | | | | |
| Data Passing | Parameter Input | | Parameter Output | | | Function Return Value | | Global Modified |
| Input Attribute Name and Definition | Name: n/a  Definition:  New  Modify  Delete  No Change | | | | | | | |
| Output Attribute Name and Definition | Name: n/a  Definition:  New  Modify  Delete  No Change | | | | | | | |
| Current Logic | | | | | | | | |
| BPSSCRN0 ;ALB/ESG - ECME user screen open/close non-billable entry ;21-SEP-2015  ;;1.0;E CLAIMS MGMT ENGINE;\*\*20\*\*;JUN 2004;Build 27  ;;Per VA Directive 6402, this routine should not be modified.  ;  OC ; entry point for open/close non-billable entry action  N BPRET,BP59,CLTOOP,JJ1,JJ2,JJ3,DFN,BPSSCRLN,BLN,COMMENT,BPQ,DIE,DA,DR,X,Y  D FULL^VALM1  W "Open/Close Non-Billable Entry",!,"Enter the line number for the entry to be opened or closed."  S BPRET=$$ASKLINE^BPSSCRU4("Select item","C","Please select a single Rx line.")  I BPRET<1 G OCX  S BP59=$P(BPRET,U,4)  I '$$NB^BPSSCR03(BP59) W !!,"The selected entry must be a Non-Billable entry. Please try again." D PAUSE^VALM1 G OCX  ;  I $$NBCL^BPSSCR03(BP59) S CLTOOP=1,JJ1="OPEN",JJ2="OPENED",JJ3="Opening" ; Closed entry to be re-opened  E S CLTOOP=0,JJ1="CLOSE",JJ2="CLOSED",JJ3="Closing" ; Open entry to be closed  ;  S DFN=+$P(BPRET,U,2) I 'DFN W !!,"Patient isn't valid for this entry." D PAUSE^VALM1 G OCX  S BPSSCRLN=$P(BPRET,U,5) ; starting line# for the ListMan display array  ;  W !!,"You've chosen to ",JJ1," the following entry for"  W !,$P($G(^DPT(DFN,0)),U,1)," :"  S BLN=BPSSCRLN-1  F S BLN=$O(^TMP("BPSSCR",$J,"VALM","IDX",BLN)) Q:'BLN Q:'$D(^TMP("BPSSCR",$J,"VALM","IDX",BLN,BP59)) D  . W !,$G(^TMP("BPSSCR",$J,"VALM",BLN,0))  . Q  W !!,"The Selected Entry will be ",JJ2,".",!  ;  COMQ ; capture the free text comments  S COMMENT=$$COMMENT^BPSSCRCL("Comment ",40)  I COMMENT=U W !!,"No changes made." D PAUSE^VALM1 G OCX  S COMMENT=$$TRIM^XLFSTR(COMMENT) ; remove leading or trailing spaces  I '$L(COMMENT) W $C(7),!,"This is a required response. Enter '^' to exit" G COMQ  ;  S BPQ=$$YESNO^BPSSCRRS("Are you sure? (Y/N)")  I BPQ'=1 W !!,"No changes made." D PAUSE^VALM1 G OCX  ;  ; time to file  w !!,JJ3," Entry"  S DIE=9002313.59  S DA=BP59  I CLTOOP S DR="302////0;306////"\_$$NOW^XLFDT\_";307////^S X=DUZ;308////^S X=COMMENT" ; re-opening entry  I 'CLTOOP S DR="302////1;303////"\_$$NOW^XLFDT\_";304////^S X=DUZ;305////^S X=COMMENT" ; closing entry  D ^DIE  D PAUSE^VALM1  D REDRAW^BPSSCRUD("Updating screen ...")  ;  OCX ;  S VALMBCK="R"  Q  ; | | | | | | | | |
| Modified Logic (Changes are highlighted) | | | | | | | | |
| BPSSCRN0 ;ALB/ESG - ECME user screen open/close non-billable entry ;21-SEP-2015  ;;1.0;E CLAIMS MGMT ENGINE;\*\*20,##\*\*;JUN 2004;Build 27  ;;Per VA Directive 6402, this routine should not be modified.  ;  OC ; entry point for open/close non-billable entry action  N BPRET,BP59,CLTOOP,JJ1,JJ2,JJ3,DFN,BPSSCRLN,BLN,COMMENT,BPQ,DIE,DA,DR,X,Y  N BPRET1,BPSARR59,BPSARR59A  D FULL^VALM1  W "Open/Close Non-Billable Entry"  W !,"Enter the line numbers for the entry/entries to be opened or closed."  S BPRET=$$ASKLINES^BPSSCRU4("Select items","C",.BPSARR59,VALMAR)  I BPRET="^" G OCX  ; Sort chosen entries  ; BPRET1=# of Billable Claims^# of Open (Non-Billable) Claims^# of Closed (NB) Claims  S BPRET1=$$OCNARR(.BPSARR59,.BPSARR59A)  I $P(BPRET1,"^",2)+$P(BPRET1,"^",3)=0 D G OCX  . W !!,"The selected entries must be Non-Billable. Please try again."  . D PAUSE^VALM1  ;  ; Display Billable claims that will not be included.  I $P(BPRET1,"^")'=0 D I BPQ=”^” G OCX  . W !!,"Selected entries must be Non-Billable."  . W !,"The following entries are not Non-Billable and will not be included for"  . S BPSPT=""  . S BPQ=””  . F S BPSPT=$O(BPSARR59A(1,BPSPT)) Q:BPSPT="" D Q:BPQ=”^”  . . W !,BPSPT," :"  . . S BPS59=""  . . F S BPS59=$O(BPSARR59A(1,BPSPT,BPS59)) Q:BPS59="" D Q:BPQ=”^”  . . . I $Y>20 D PAUSE^VALM1 W @IOF I X=”^” S BPQ=”^” Q  . . . W !,@VALMAR@(+$G(BPSARR59A(1,BPSPT,BPS59)),0)  . . . D DISPREJ^BPSSCRU6(BPS59)  ;  ; Display open claims to be closed.  I $P(BPRET1,"^",2)'=0 D I BPQ=”^” G OCX  . W !!,"You've chosen to CLOSE the following prescription(s) for"  . S BPSPT=""  . S BPQ=””  . F S BPSPT=$O(BPSARR59A(2,BPSPT)) Q:BPSPT="" D Q:BPQ=”^”  . . W !,BPSPT," :"  . . S BPS59=""  . . F S BPS59=$O(BPSARR59A(2,BPSPT,BPS59)) Q:BPS59="" D Q:BPQ=”^”  . . . I $Y>20 D PAUSE^VALM1 W @IOF I X=”^” S BPQ=”^” Q  . . . W !,@VALMAR@(+$G(BPSARR59A(2,BPSPT,BPS59)),0)  . . . D DISPREJ^BPSSCRU6(BPS59)  ;  ;Display closed claims to be opened.  I $P(BPRET1,"^",3)'=0 D I BPQ=”^” G OCX  . W !!,"You've chosen to OPEN the following prescription(s) for"  . S BPSPT=""  . S BPQ=””  . F S BPSPT=$O(BPSARR59A(3,BPSPT)) Q:BPSPT="" D Q:BPQ=”^”  . . W !,BPSPT," :"  . . S BPS59=""  . . F S BPS59=$O(BPSARR59A(3,BPSPT,BPS59)) Q:BPS59="" D Q:BPQ=”^”  . . . I $Y>20 D PAUSE^VALM1 W @IOF I X=”^” S BPQ=”^” Q  . . . W !,@VALMAR@(+$G(BPSARR59A(3,BPSPT,BPS59)),0)  . . . D DISPREJ^BPSSCRU6(BPS59)  ;  S BPSPRMPT=""  I $P(BPRET1,"^",3)'=0,$P(BPRET1,"^",2)=0 S BPSPRMPT="OPENED"  I $P(BPRET1,"^",2)'=0,$P(BPRET1,"^",3)=0 S BPSPRMPT="CLOSED"  I $P(BPRET1,"^",2)'=0,$P(BPRET1,"^",3)'=0 S BPSPRMPT="OPENED/CLOSED"  ;  W !!,"ALL Selected Non-Billable Rxs will be "\_BPSPRMPT\_" using the"  W !,"same information gathered in the following prompt.",!  ;  COMQ ; capture the free text comments  S COMMENT=$$COMMENT^BPSSCRCL("Comment ",40)  I COMMENT=U W !!,"No changes made." D PAUSE^VALM1 G OCX  S COMMENT=$$TRIM^XLFSTR(COMMENT) ; remove leading or trailing spaces  I '$L(COMMENT) W $C(7),!,"This is a required response. Enter '^' to exit" G COMQ  ;  S BPQ=$$YESNO^BPSSCRRS("Are you sure? (Y/N)")  I BPQ'=1 W !!,"No changes made." D PAUSE^VALM1 G OCX  ;  ; time to file  S DIE=9002313.59  ;  ; Loop through closed claims to be re-opened.  I $P(BPRET1,"^",3)'=0 D  . S BPSPT=""  . F S BPSPT=$O(BPSARR59A(3,BPSPT)) Q:BPSPT="" D  . . S DA=""  . . F S DA=$O(BPSARR59A(3,BPSPT,DA)) Q:DA="" D  . . . S DR="302////0;306////"\_$$NOW^XLFDT  . . . S DR=DR\_";307////^S X=DUZ;308////^S X=COMMENT"  . . . D ^DIE  ;  ; Loop through open claims to be closed.  I $P(BPRET1,"^",2)'=0 D  . S BPSPT=""  . F S BPSPT=$O(BPSARR59A(2,BPSPT)) Q:BPSPT="" D  . . S DA=""  . . F S DA=$O(BPSARR59A(2,BPSPT,DA)) Q:DA="" D  . . . S DR="302////1;303////"\_$$NOW^XLFDT  . . . S DR=DR\_";304////^S X=DUZ;305////^S X=COMMENT"  . . . D ^DIE  ;  D PAUSE^VALM1  D REDRAW^BPSSCRUD("Updating screen ...")  ;  OCX ;  I $G(BPQ)=”^” D  . W !,”0 claims have been opened/closed.”  . D PAUSE^VALM1  S VALMBCK="R"  Q  ; | | | | | | | | |

| Subroutine Name | **OCNARR^BPSSCRN0** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Enhancement Category | New | Modify | | | Delete | | No Change | |
| Story | US601 | | | | | | | |
| Related Menu Options or ListMan Actions | OCN Open/Close Non-Billable Claims | | | | | | | |
| Related Routines | This Subroutine is Called By | | | This Subroutine Calls | | | | |
| OC^BPSSCRN0 | | | $$GET1^DIQ  $$NB^BPSSCR03  $$NBCL^BPSSCR03 | | | | |
| Related Integration Control Registrations (ICRs) | n/a | | | | | | | |
| Data Passing | Parameter Input | | Parameter Output | | | Function Return Value | | Global Modified |
| Input Attribute Name and Definition | Name: BPARR  Definition: Array of user selected claims  New  Modify  Delete  No Change | | | | | | | |
| Output Attribute Name and Definition | Name: BPARR1  Definition: Array of user selected claims re-sorted by Billable, Open and Closed  New  Modify  Delete  No Change | | | | | | | |
| Current Logic | | | | | | | | |
| N/A | | | | | | | | |
| Modified Logic (Changes are highlighted) | | | | | | | | |
| OCNARR(BPARR,BPARR1) ; Re-sort array of user selected claims  ; The user selected claims will be re-sorted, dividing them by  ; Billable Claims, Non-Billable Open Claims and NB Closed Claims.  ; The claims will also be sorted, within each grouping, alphabetically  ; by Patient Name.  ; BPARR - input - array of user selected claims  ; BPARR1 - output - array of user selected claims; re-sorted  ; BPARR1(1,PATIENT,BPS TRANSACTION) = Billable Claims  ; BPARR1(2,PATIENT,BPS TRANSACTION) = Non-Billable Open Claims  ; BPARR1(3,PATIENT,BPS TRANSACTION) = Non-Billable Closed Claims  ; Function Return Value = Counts of each category from BPARR1  ; # of Billable Claims^# of Open NB Claims^# of Closed NB Claims  ;  N BPS59,BPSCLO,BPSCNT,BPSOPN,BPSPT,BPSBILL  S BPSCNT=0,BPSOPN=0,BPSCLO=0  S BPS59=""  F S BPS59=$O(BPARR(BPS59)) Q:BPS59="" D  . ; Patient Name  . S BPSPT=$$GET1^DIQ(9002313.59,BPS59,5)  . ; Billable=0 Non-Billable=1  . S BPSBILL=$$NB^BPSSCR03(BPS59)  . I BPSBILL=0 D Q  . . S BPARR1(1,BPSPT,BPS59)=BPARR(BPS59)  . . S BPSCNT=BPSCNT+1  . ; Only Non-Billable Claims at this point  . ; Open=0 Closed=1  . S BPSOPNCLO=$$NBCL^BPSSCR03(BPS59)  . I BPSOPNCLO=0 D Q  . . S BPARR1(2,BPSPT,BPS59)=BPARR(BPS59)  . . S BPSOPN=BPSOPN+1  . S BPARR1(3,BPSPT,BPS59)=BPARR(BPS59)  . S BPSCLO=BPSCLO+1  Q BPSCNT\_"^"\_BPSOPN\_"^"\_BPSCLO | | | | | | | | |

# Back Out/Rollback Procedure

This story includes modifications to an existing routine. To back out this enhancement, the routine which is a part of this patch should be backed up prior to installation. Reverting to the previous version of this routine would back out this enhancement. Alternatively, the previous version of these routine could be distributed via an emergency patch.