**MCCF EDI TAS US576**

System Design Document



Department of Veterans Affairs

**May 2017**

Version 1.01

**User Story Number:** USRX-12

**User Story Name:** Modify the CV Change View action on the ECME User screen to allow a user to revert back to user’s saved/preferred view and exit CV action.

**Product Backlog ID:** 12

**Backlog Priority:** Low

**Initial Sizing Estimate:**

**Rational ID:** tbd

**Rally ID:** US576

# Design – Summary

Modify the Change View (CV) action on the EMCE User Screen to allow the user to revert back to their saved/preferred view and exit CV action. The prompt to revert back to the user’s preferred view will default to YES. The prompt will not be displayed if the user does not have a preferred view or if the user’s preferred view is currently being shown. Responding YES to the new prompt will prevent the questions to edit the View Parameters from displaying.

List of Components:

* Routine: BPSSCR
* Routine: BPSSCRCV
* Routine: BPSSCRSL

# Design – Detail

Entry point for CV Action. Updated code will check if a temporary view is currently in use and if the user has a preferred view defined. If both conditions are true, the user will be prompted to restore their preferred view without requiring the logic to flow through the individual parameter edit questions.

| Subroutine Name | **CV^BPSSCRCV** | | | | |
| --- | --- | --- | --- | --- | --- |
| Enhancement Category | New | Modify | | Delete | No Change |
| Story | US576 | | | | |
| Related Menu Options or ListMan Actions | CV Change View | | | | |
| Related Routines | This Subroutine is Called By | | This Subroutine Calls | | |
| ECME User Screen | | FULL^VALM1  ERRMSG^BPSSCRCV  READPROF^BPSSCRSL  SAVEVIEW^BPSSCR01  EDITPROF^BPSSCRCV  ENDEDIT^BPSSCRSL  REDRAW^BPSSCRUD | | |
| Related Integration Control Registrations (ICRs) | N/A | | | | |
| 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 | | | | | |
| BPSSCRCV ;BHAM ISC/SS - ECME SCREEN CHANGE VIEW ;05-APR-05  ;;1.0;E CLAIMS MGMT ENGINE;\*\*1,5,7,11,14,20\*\*;JUN 2004;Build 27  ;;Per VA Directive 6402, this routine should not be modified.  …  CV ;  D FULL^VALM1  W @IOF  K BPARR  I +$G(DUZ)=0 D ERRMSG^BPSSCRCV("Unknown User") Q  N BPDUZ7  S BPDUZ7=+DUZ  ;always get current profile from the file  D READPROF^BPSSCRSL(.BPARR,BPDUZ7)  D SAVEVIEW^BPSSCR01(.BPARR)  ;edit current profile  D EDITPROF(.BPARR,.BPDUZ7)  ;ask user if need to save everything in USR PROFILE file  ;(except SORT LIST field)  N BPSRT S BPSRT=BPARR(1.12)  K BPARR(1.12)  D ENDEDIT^BPSSCRSL(.BPARR,+BPDUZ7)  S BPARR(1.12)=BPSRT  D SAVEVIEW^BPSSCR01(.BPARR)  S VALMBG=1  D REDRAW^BPSSCRUD("Updating screen...")  Q | | | | | |
| Modified Logic (Changes are highlighted) | | | | | |
| BPSSCRCV ;BHAM ISC/SS - ECME SCREEN CHANGE VIEW ;05-APR-05  ;;1.0;E CLAIMS MGMT ENGINE;\*\*1,5,7,11,14,20,22\*\*;JUN 2004;Build 27  ;;Per VA Directive 6402, this routine should not be modified.  …  CV ;  N BPSRESCV,BPSTMPCV,DIR,Y  D FULL^VALM1  W @IOF  S BPSTMPCV=$G(BPARR(“TEMPCV”)) ; Define Temp View Flag before BPARR is killed  K BPARR  I +$G(DUZ)=0 D ERRMSG^BPSSCRCV("Unknown User") Q  N BPDUZ7  S BPDUZ7=+DUZ  ;always get current profile from the file  D READPROF^BPSSCRSL(.BPARR,BPDUZ7)  ; BPARR(“1.13”) is the parameter for Pharmacy Division.  ; If BPARR(“1.13”) is defined, the user has a preferred view defined.  I ($G(BPSTMPCV)=1)&($G(BPARR(“1.13”))’=””) D  . S DIR(0)=”Y”  . S DIR(“A”)=”Restore your Preferred View and exit Change View (Y/N)”  . S DIR(“B”)=”Y”  . D ^DIR  . S BPSRESCV=Y  I $G(BPSRESCV)=1 G CV1 ; User replied YES – restore to preferred view.  D SAVEVIEW^BPSSCR01(.BPARR)  ;edit current profile  D EDITPROF(.BPARR,.BPDUZ7)  ;ask user if need to save everything in USR PROFILE file  ;(except SORT LIST field)  N BPSRT S BPSRT=BPARR(1.12)  K BPARR(1.12)  D ENDEDIT^BPSSCRSL(.BPARR,+BPDUZ7)  S BPARR(1.12)=BPSRT  CV1 ;  D SAVEVIEW^BPSSCR01(.BPARR)  S VALMBG=1  D REDRAW^BPSSCRUD("Updating screen...")  Q | | | | | |

| Subroutine Name | **EDITPROF^BPSSCRCV** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Enhancement Category | New | Modify | | Delete | | No Change | |
| Story | US591 | | | | | | |
| Related Menu Options or ListMan Actions | ECME User Screen action CV | | | | | | |
| Related Routines | This Subroutine is Called By | | | This Subroutine Calls | | | |
| CV^BPSSCRCV | | | $$DS^BPSSCRDS, $$EDITRX^BPSSCRPR, $$INSURSEL^BPSSCRCU | | | |
| Related Integration Control Registrations (ICRs) | N/A | | | | | | |
| Data Passing | Parameter Input | | Parameter Output | | Function Return Value | | Global Modified |
| Input Attribute Name and Definition | Name: BPARR  Definition: User Profile Array – Parameter Definition “BPS USRSCR”  New  Modify  Delete  No Change  Name: BPDUZ7  Definition: DUZ  New  Modify  Delete  No Change | | | | | | |
| Output Attribute Name and Definition | Name: BPARR  Definition: User Profile Array – Parameter Definition “BPS USRSCR”  New  Modify  Delete  No Change  Name: BPDUZ7  Definition: DUZ  New  Modify  Delete  No Change | | | | | | |
| Current Logic | | | | | | | |
| EDITPROF(BPARR,BPDUZ7) ;  I +$G(DUZ)=0 D ERRMSG("Unknown User") Q  N BP1,BPTF,BPQ,BPINP  N BPRET  N DIR,DR,DIE,DA  ;get ONE/ALL USERS?  ;EDITFLD(FILENO,FLDNO,RECIEN,CODESET,PRMTMSG,DFLTCODE) ;  S BPRET=$$DS^BPSSCRDS(.BPARR,+BPDUZ7) ;get divisions  Q:BPRET=-2 ;quit due to timeout or ^  Q:$$EDITFLD(2.01,+BPDUZ7,"S^V:VETERAN;T:TRICARE;C:CHAMPVA;A:ALL","Select Certain Eligibility Type or (A)ll","V",.BPARR)=-1  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.01,+BPDUZ7,"S^U:ONE USER;A:ALL","Display One ECME (U)ser or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITFLD(1.16,+BPDUZ7,"P^VA(200,","Select User","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.02,+BPDUZ7,"S^P:ONE PATIENT;A:ALL","Display One (P)atient or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITFLD(1.17,+BPDUZ7,"P^DPT(","Select Patient","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.03,+BPDUZ7,"S^R:ONE RX;A:ALL","Display One (R)x or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITRX^BPSSCRPR(1.18,+BPDUZ7,"Select RX","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  S BPINP=$$EDITFLD(1.04,+BPDUZ7,"S^D:DAYS;H:HOURS","Activity Timeframe (H)ours or (D)ays","DAYS",.BPARR)  I BPINP=-1 Q  ;quit due to timeout or ^  S BPTF=$P(BPINP,U,2)  Q:$$EDITFLD(1.05,+BPDUZ7,"N^1:999:0","Activity Timeframe Value",$S(BPTF="H":24,1:7),.BPARR)=-1  Q:$$EDITFLD(2.02,+BPDUZ7,"S^O:OPEN CLAIMS;C:CLOSED CLAIMS;A:ALL","Select Open/Closed or All Claims","O",.BPARR)=-1  Q:$$EDITFLD(1.19,+BPDUZ7,"S^O:Open Non-Billable Entries;C:Closed Non-Billable Entries;A:ALL","Display (O)pen or (C)losed or (A)ll Non-Billable Entries","A",.BPARR)=-1  Q:$$EDITFLD(2.03,+BPDUZ7,"S^B:BILLING REQUESTS;R:REVERSALS;A:ALL","Select Submission Type","A",.BPARR)=-1  Q:$$EDITFLD(1.06,+BPDUZ7,"S^R:REJECTS;P:PAYABLES;U:UNSTRANDED;A:ALL","Display (R)ejects or (P)ayables or (U)nstranded or (A)LL","REJECTS",.BPARR)=-1  Q:$$EDITFLD(1.07,+BPDUZ7,"S^R:RELEASED;N:NON-RELEASED;A:ALL","Display (R)eleased Rxs or (N)on-Released Rxs or (A)LL","RELEASED",.BPARR)=-1  Q:$$EDITFLD(1.08,+BPDUZ7,"S^C:CMOP;M:MAIL;W:WINDOW;A:ALL","Display (C)MOP or (M)ail or (W)indow or (A)LL","ALL",.BPARR)=-1  Q:$$EDITFLD(1.09,+BPDUZ7,"S^R:REALTIME;B:BACKBILLS;P:PRO OPTION;S:RESUBMISSION;A:ALL","Display (R)ealTime, (B)ackbills, (P)RO Option, Re(S)ubmission or (A)LL","ALL",.BPARR)=-1  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.1,+BPDUZ7,"S^R:REJECT CODE;A:ALL","Display Specific (R)eject Code or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITFLD(1.15,+BPDUZ7,"P^BPSF(9002313.93,","Select Reject Code","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  Q:$$INSURSEL^BPSSCRCU(.BPARR,+BPDUZ7)=-1  Q | | | | | | | |
| Modified Logic (Changes are highlighted) | | | | | | | |
| EDITPROF(BPARR,BPDUZ7) ;  I +$G(DUZ)=0 D ERRMSG("Unknown User") Q  I $G(BPSRESCV)=”^” Q  N BP1,BPTF,BPQ,BPINP  N BPRET  N DIR,DR,DIE,DA  ;get ONE/ALL USERS?  ;EDITFLD(FILENO,FLDNO,RECIEN,CODESET,PRMTMSG,DFLTCODE) ;  S BPRET=$$DS^BPSSCRDS(.BPARR,+BPDUZ7) ;get divisions  Q:BPRET=-2 ;quit due to timeout or ^  Q:$$EDITFLD(2.01,+BPDUZ7,"S^V:VETERAN;T:TRICARE;C:CHAMPVA;A:ALL","Select Certain Eligibility Type or (A)ll","V",.BPARR)=-1  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.01,+BPDUZ7,"S^U:ONE USER;A:ALL","Display One ECME (U)ser or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITFLD(1.16,+BPDUZ7,"P^VA(200,","Select User","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.02,+BPDUZ7,"S^P:ONE PATIENT;A:ALL","Display One (P)atient or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITFLD(1.17,+BPDUZ7,"P^DPT(","Select Patient","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.03,+BPDUZ7,"S^R:ONE RX;A:ALL","Display One (R)x or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITRX^BPSSCRPR(1.18,+BPDUZ7,"Select RX","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  S BPINP=$$EDITFLD(1.04,+BPDUZ7,"S^D:DAYS;H:HOURS","Activity Timeframe (H)ours or (D)ays","DAYS",.BPARR)  I BPINP=-1 Q  ;quit due to timeout or ^  S BPTF=$P(BPINP,U,2)  Q:$$EDITFLD(1.05,+BPDUZ7,"N^1:999:0","Activity Timeframe Value",$S(BPTF="H":24,1:7),.BPARR)=-1  Q:$$EDITFLD(2.02,+BPDUZ7,"S^O:OPEN CLAIMS;C:CLOSED CLAIMS;A:ALL","Select Open/Closed or All Claims","O",.BPARR)=-1  Q:$$EDITFLD(1.19,+BPDUZ7,"S^O:Open Non-Billable Entries;C:Closed Non-Billable Entries;A:ALL","Display (O)pen or (C)losed or (A)ll Non-Billable Entries","A",.BPARR)=-1  Q:$$EDITFLD(2.03,+BPDUZ7,"S^B:BILLING REQUESTS;R:REVERSALS;A:ALL","Select Submission Type","A",.BPARR)=-1  Q:$$EDITFLD(1.06,+BPDUZ7,"S^R:REJECTS;P:PAYABLES;U:UNSTRANDED;A:ALL","Display (R)ejects or (P)ayables or (U)nstranded or (A)LL","REJECTS",.BPARR)=-1  Q:$$EDITFLD(1.07,+BPDUZ7,"S^R:RELEASED;N:NON-RELEASED;A:ALL","Display (R)eleased Rxs or (N)on-Released Rxs or (A)LL","RELEASED",.BPARR)=-1  Q:$$EDITFLD(1.08,+BPDUZ7,"S^C:CMOP;M:MAIL;W:WINDOW;A:ALL","Display (C)MOP or (M)ail or (W)indow or (A)LL","ALL",.BPARR)=-1  Q:$$EDITFLD(1.09,+BPDUZ7,"S^R:REALTIME;B:BACKBILLS;P:PRO OPTION;S:RESUBMISSION;A:ALL","Display (R)ealTime, (B)ackbills, (P)RO Option, Re(S)ubmission or (A)LL","ALL",.BPARR)=-1  S BPQ=0 F  D  Q:BPQ'=0  . S BPINP=$$EDITFLD(1.1,+BPDUZ7,"S^R:REJECT CODE;A:ALL","Display Specific (R)eject Code or (A)LL","ALL",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)="A" BPQ=1 I BPQ'=0 Q  . S BPINP=$$EDITFLD(1.15,+BPDUZ7,"P^BPSF(9002313.93,","Select Reject Code","",.BPARR)  . S:BPINP=-1 BPQ=-1 S:$P(BPINP,U,2)'="" BPQ=1 I BPQ'=0 Q  Q:BPQ=-1 ;quit due to timeout or ^  Q:$$INSURSEL^BPSSCRCU(.BPARR,+BPDUZ7)=-1  Q | | | | | | | |

The ENDEDIT procedure prompts the user to save the current view as the user’s preferred view. This update will set an entry (“TEMPCV”) in the BPARR array if the user does not answer YES to save the current view as their preferred view. BPARR(“TEMPCV”)=1 will indicate that the user modified their current view but did not save it as their preferred view.

| Subroutine Name | **ENDEDIT^BPSSCRSL** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Enhancement Category | New | Modify | | | Delete | | No Change | |
| Story | US576 | | | | | | | |
| Related Menu Options or ListMan Actions | CV Change View | | | | | | | |
| Related Routines | This Subroutine is Called By | | | This Subroutine Calls | | | | |
| CV^BPSSCRCV | | | $$PROMPT^BPSSCRCV  FILEALL^BPSSCRCV | | | | |
| Related Integration Control Registrations (ICRs) | N/A | | | | | | | |
| Data Passing | Parameter Input | | Parameter Output | | | Function Return Value | | Global Modified |
| Input Attribute Name and Definition | Name: BPARRAY  Definition: Array of User’s Defined Parameters - BPS USRSCR  New  Modify  Delete  No Change  Name: BPDUZ7  Definition: Array of User’s Defined Parameters - BPS USRSCR  New  Modify  Delete  No Change | | | | | | | |
| Output Attribute Name and Definition | Name: BPARRAY  Definition: Array of User’s Defined Parameters- BPS USRSCR  New  Modify  Delete  No Change | | | | | | | |
| Current Logic | | | | | | | | |
| BPSSCRSL ;BHAM ISC/SS - ECME SCREEN SORT LIST ;05-APR-05  ;;1.0;E CLAIMS MGMT ENGINE;\*\*1,7,11,20\*\*;JUN 2004;Build 27  ;;Per VA Directive 6402, this routine should not be modified.  …  .ENDEDIT(BPARRAY,BPDUZ7) ;  I $$PROMPT^BPSSCRCV("S^Y:YES;N:NO","DO YOU WANT TO SAVE THIS VIEW AS YO  UR PREFERRED VIEW (Y/N)?","")="Y" D  . D FILEALL^BPSSCRCV(.BPARRAY,BPDUZ7)  Q | | | | | | | | |
| Modified Logic (Changes are highlighted) | | | | | | | | |
| BPSSCRSL ;BHAM ISC/SS - ECME SCREEN SORT LIST ;05-APR-05  ;;1.0;E CLAIMS MGMT ENGINE;\*\*1,7,11,20,22\*\*;JUN 2004;Build 27  ;;Per VA Directive 6402, this routine should not be modified.  …  ENDEDIT(BPARRAY,BPDUZ7) ;  S BPARRAY(“TEMPCV”)=1 ; Default as Temporary View defined  I $$PROMPT^BPSSCRCV("S^Y:YES;N:NO","DO YOU WANT TO SAVE THIS VIEW AS YO  UR PREFERRED VIEW (Y/N)?","")="Y" D  . D FILEALL^BPSSCRCV(.BPARRAY,BPDUZ7)  . K BPARRAY(“TEMPCV”) ; User agreed to save view as preferred – Remove TEMPCV flag  Q | | | | | | | | |

This procedure is called when exiting the ECME User Screen. The existing logic has the BPARR array still set when exiting ECME User Screen. The following update ensures the Temporary Change View flag is cleared upon exiting, if it exists.

| Subroutine Name | **CLEANUP^BPSSCR** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Enhancement Category | New | Modify | | | Delete | | No Change | |
| Story | US576 | | | | | | | |
| Related Menu Options or ListMan Actions | CV Change View | | | | | | | |
| Related Routines | This Subroutine is Called By | | | This Subroutine Calls | | | | |
| EXIT^BPSSCR | | | N/A | | | | |
| Related Integration Control Registrations (ICRs) | N/A | | | | | | | |
| Data Passing | Parameter Input | | Parameter Output | | | Function Return Value | | Global Modified |
| Input Attribute Name and Definition | Name: NA  Definition:  New  Modify  Delete  No Change | | | | | | | |
| Output Attribute Name and Definition | Name: NA  Definition:  New  Modify  Delete  No Change | | | | | | | |
| Current Logic | | | | | | | | |
| BPSSCR ;BHAM ISC/SS - ECME USER SCREEN MAIN ;10-MAR-2005  ;;1.0;E CLAIMS MGMT ENGINE;\*\*1\*\*;JUN 2004  ;; Per VHA Directive 10-93-142, this routine should not be modified.  …  CLEANUP ;  K @VALMAR  D KILINSGL ;clean up insurance list  Q | | | | | | | | |
| Modified Logic (Changes are highlighted) | | | | | | | | |
| BPSSCR ;BHAM ISC/SS - ECME USER SCREEN MAIN ;10-MAR-2005  ;;1.0;E CLAIMS MGMT ENGINE;\*\*1,22\*\*;JUN 2004  ;; Per V~~H~~A Directive 6402, this routine should not be modified.  …  CLEANUP ;  K @VALMAR  D KILINSGL ;clean up insurance list  S BPARR("TEMPCV")="" ; ensure Temp CV flag is cleared  Q | | | | | | | | |

# Back Out/Rollback Procedure

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