**MCCF EDI TAS USEB-13**

System Design Document

IB\*2.0\*576



Department of Veterans Affairs

**November 2016**

Version 1.0

**User Story Number:** USEB-13

**User Story Name:** Missing MRW Legend Indicator (Backlog #417)

# Design/Resolution:

To resolve this request, the following routine needs to be modified accordingly:

| **Routines** | **Activities** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | IBCECOB | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | None | | | | | | | | |
| **Related Routines** | **Routines “Called By”** | | | | | **Routines “Called”** | | | |
|  |  | | | | |  | | | |
| **Data Dictionary (DD) References** | None | | | | | | | | |
| **Related Protocols** | None | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | None | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | Name:  Definition: | | | | | | | | |
| **Output Attribute Name and Definition** | Name:  Definition: | | | | | | | | |
| **Current Logic** | | | | | | | | | |
| IBCECOB ;ALB/CXW - IB COB MANAGEMENT SCREEN ;16-JUN-1999  ;;2.0;INTEGRATED BILLING;\*\*137,155,288,432,488,516,547\*\*;21-MAR-94;Build 123  ;;Per VA Directive 6402, this routine should not be modified.  ; EN ; -- main entry point for COB management  K IBSRT,IBMRADUP,IBSRCH  I $G(IBMRANOT) D EN^VALM("IBCEM COB MANAGEMENT") ;WCJ;IB\*2.0\*432  I '$G(IBMRANOT) D EN^VALM("IBCEM MRA MANAGEMENT") ;WCJ;IB\*2.0\*432  Q  ; HDR ; -- header code  I '$G(IBMRANOT) S VALMSG="!=Data Mismatch/MSE Enter ?? for more actions"  Q  ; INIT ; -- init variables and list array  N DIC,DIRUT,DIROUT,DTOUT,DUOUT,X,Y,DIR,IB1,IBQUIT  K ^TMP("IBBIL",$J),^TMP("IBBIL-DIV",$J)  S IBSRT=""  S IB1=1  W !  F  S DIC="^VA(200,",DIC(0)="AEMQ",DIC("A")="Select "\_$S('IB1:"Another ",1:"")\_"BILLER: "\_$S('IB1:"",1:"ALL//") D ^DIC K DIC D  Q:Y<0  . Q:Y<0  . I $D(^TMP("IBBIL",$J,+Y)) W !,"This biller has already been selected" Q  . S ^TMP("IBBIL",$J,+Y)=""  . S IB1=0  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  ;  I '$G(IBMRANOT) G DIVX  ; DIV ; division  W !  S DIR(0)="SA^A:All Divisions;S:Selected Divisions"  S DIR("A")="Include All Divisions or Selected Divisions? "  S DIR("B")="All"  D ^DIR K DIR  I $D(DIROUT)!$D(DIRUT) S VALMQUIT=1 G INITQ  ;Timeout or User "^"  I Y="A" G DIVX  ;  W !  S IBQUIT=0  F  D  I IBQUIT S IBQUIT=IBQUIT-1 Q  . S DIC=40.8,DIC(0)="AEMQ",DIC("A")=" Select Division: "  . I $O(^TMP("IBBIL-DIV",$J,"")) S DIC("A")=" Select Another Division: "  . D ^DIC K DIC                ; lookup  . I X="^^" S IBQUIT=2 Q       ; user entered ^^  . I +Y'>0 S IBQUIT=1 Q        ; user is done  . S ^TMP("IBBIL-DIV",$J,+Y)=$P(Y,U,2)  . Q  ;  I IBQUIT S VALMQUIT=1 G INITQ  ;User "^" out of the selection  ;  I '$O(^TMP("IBBIL-DIV",$J,"")) D  G DIV  . W \*7,!!?3,"No divisions have been selected. Please try again."  . Q  ; DIVX ; Exit Division selection.  ;  W !  I '$G(IBMRANOT) S DIR("A")="Within Division " G SRT  ; CLM ; patch 547 - new claim prompt for CBW  ;  S DIR("A")="(P)rimary Claims,(S)econdary Claims or (B)oth: ",DIR("B")="Both"  S DIR(0)="SBA^P -:Primary Claims;S -:Secondary Claims;B -:Both"  S DIR("?")="This field determines whether you want to search for just primary claims, just secondary/tertiary claims or both."  D ^DIR K DIR S DIR("A")=""  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  S IBSRCH=$E(Y)  W !  ; SRT ;  S DIR("A")=DIR("A")\_"Sort By: ",DIR("B")="BILLER"  S DIR(0)="SBA^B:BILLER;D:DAYS SINCE TRANSMISSION OF LATEST BILL;L:DATE LAST "\_$S($G(IBMRANOT):"EOB",1:"MRA")\_" RECEIVED;"  ; IB\*2.0\*547 add Tertiary and Primary Insurance Company sorts for CBW  S:'$G(IBMRANOT) DIR(0)=DIR(0)\_"I:SECONDARY INSURANCE COMPANY;M:"\_$S($G(IBMRANOT):"EOB",1:"MRA")\_" STATUS;P:PATIENT NAME;R:PATIENT RESPONSIBILITY;S:SERVICE DATE"  S:$G(IBMRANOT)=1 DIR(0)=DIR(0)\_"I:SECONDARY INSURANCE COMPANY;M:"\_$S($G(IBMRANOT):"EOB",1:"MRA")\_" STATUS;P:PATIENT NAME;R:PATIENT RESPONSIBILITY;S:SERVICE DATE;K:PRIMARY INSURANCE COMPANY"  S DIR("?")="Enter the code to indicate how the list should be sorted." D ^DIR K DIR  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  S IBSRT=Y  ;  W !  S IBMRADUP=0  S DIR("A")="Do you want to include Denied "\_$S($G(IBMRANOT):"EOB",1:"MRA")\_"s for Duplicate Claim/Service",DIR("B")="No",DIR(0)="YO"  D ^DIR K DIR  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  I Y S IBMRADUP=1  ;  D BLD^IBCECOB1  ; INITQ Q  ; HELP ; -- help code  S X="?" D DISP^XQORM1 W !!  Q  ; EXIT ; -- exit code  K ^TMP("IBBIL",$J),^TMP("IBBIL-DIV",$J)  K ^TMP("IBCECOB",$J),^TMP("IBCECOB1",$J)  K ^TMP("IBCOBST",$J),^TMP("IBCOBSTX",$J)  D CLEAN^VALM10  Q  ; EXP ; -- expand code to show additional details of the EOB record  NEW IBDA,IBIFN,LSTENTRY  D SEL^IBCECOB2(.IBDA,1) ; selects a bill  S LSTENTRY=+$O(IBDA(0)) I 'LSTENTRY G EXPQ    ; list entry number  S IBIFN=+$G(IBDA(LSTENTRY)) I 'IBIFN G EXPQ   ; bill#  ;  ; If only one MRA on file, call the listman screen and quit  I $$MRACNT^IBCEMU1(IBIFN)=1 D EN^VALM("IBCEM MRA DETAIL") G EXPQ  ; EXPLOOP ; At this point, we know there are multiple MRA's on file  ;  D FULL^VALM1  I $$SEL^IBCEMU1(IBIFN,1,LSTENTRY) D  G EXPLOOP  ; MRA lister/selection  . NEW IBIFN,LSTENTRY,IBDASAVE                   ; protect variables  . M IBDASAVE=IBDA                               ; save off IBDA array  . D EN^VALM("IBCEM MRA DETAIL") ; call the listman  . M IBDA=IBDASAVE                               ; restore IBDA array  . Q EXPQ ;  S VALMBCK="R"  Q  ; COBPOSS(IB364) ; Returns 1 if transmit bill ien in IB364 is currently  ; in a status where COB may be performed on the bill  ; Used by index "ACOB", file 364  N IBWNR,IBNSEQ,IB01,IBM1,IBU1,IB0,IBOK,IBMRA  S IBOK=1  S IB0=$G(^IBA(364,IB364,0))  S IBWNR=$$WNRBILL^IBEFUNC(+IB0),IBMRA=$P($G(^DGCR(399,+IB0,"TX")),U,5)  S IB01=$G(^DGCR(399,+IB0,0)),IBM1=$G(^("M1")),IBU1=$G(^("U1"))  I 'IBWNR,IBU1-$P(IBU1,U,2)'>0 S IBOK=0 G COBQ ; Bill has a 0 balance  I $S('IBWNR:$E($P(IB0,U,3))'="A",1:IBMRA'="1N"&(IBMRA'="A")) S IBOK=0 G COBQ ; Not in correct transmit status  S IBNSEQ=+$TR($P(IB0,U,8),"PST","230")  I 'IBNSEQ!'$D(^DGCR(399,+IB0,"I"\_IBNSEQ)) S IBOK=0 G COBQ ; No next ins  I "234"'[$P(IB01,U,13) S IBOK=0 G COBQ ; Bill invalid status for COB  I IBNSEQ D  . N Z,IBSTOP  . S IBSTOP=0  . F Z=IBNSEQ:1:3 D  Q:IBSTOP  .. I $D(^DGCR(399,+IB0,"I"\_Z)) D  ... ;Insurance must reimburse  ... I $P($G(^DIC(36,+^DGCR(399,+IB0,"I"\_Z),0)),U,2)="N" S IBOK=0 Q  ... I $P(IBM1,U,4+Z) S IBOK=0,IBSTOP=1 Q  ; Already has a next seq bill  ... S (IBOK,IBSTOP)=1  ; COBQ Q IBOK  ; | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| IBCECOB ;ALB/CXW - IB COB MANAGEMENT SCREEN ;16-JUN-1999  ;;2.0;INTEGRATED BILLING;\*\*137,155,288,432,488,516,547\*\*;21-MAR-94;Build 123  ;;Per VA Directive 6402, this routine should not be modified.  ; EN ; -- main entry point for COB management  K IBSRT,IBMRADUP,IBSRCH  I $G(IBMRANOT) D EN^VALM("IBCEM COB MANAGEMENT") ;WCJ;IB\*2.0\*432  I '$G(IBMRANOT) D EN^VALM("IBCEM MRA MANAGEMENT") ;WCJ;IB\*2.0\*432  Q  ; HDR ; -- header code  I '$G(IBMRANOT) S VALMSG="!=Data Mismatch/MSE \*=Review in Process Enter ?? for more actions"  Q  ; INIT ; -- init variables and list array  N DIC,DIRUT,DIROUT,DTOUT,DUOUT,X,Y,DIR,IB1,IBQUIT  K ^TMP("IBBIL",$J),^TMP("IBBIL-DIV",$J)  S IBSRT=""  S IB1=1  W !  F  S DIC="^VA(200,",DIC(0)="AEMQ",DIC("A")="Select "\_$S('IB1:"Another ",1:"")\_"BILLER: "\_$S('IB1:"",1:"ALL//") D ^DIC K DIC D  Q:Y<0  . Q:Y<0  . I $D(^TMP("IBBIL",$J,+Y)) W !,"This biller has already been selected" Q  . S ^TMP("IBBIL",$J,+Y)=""  . S IB1=0  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  ;  I '$G(IBMRANOT) G DIVX  ; DIV ; division  W !  S DIR(0)="SA^A:All Divisions;S:Selected Divisions"  S DIR("A")="Include All Divisions or Selected Divisions? "  S DIR("B")="All"  D ^DIR K DIR  I $D(DIROUT)!$D(DIRUT) S VALMQUIT=1 G INITQ  ;Timeout or User "^"  I Y="A" G DIVX  ;  W !  S IBQUIT=0  F  D  I IBQUIT S IBQUIT=IBQUIT-1 Q  . S DIC=40.8,DIC(0)="AEMQ",DIC("A")=" Select Division: "  . I $O(^TMP("IBBIL-DIV",$J,"")) S DIC("A")=" Select Another Division: "  . D ^DIC K DIC                ; lookup  . I X="^^" S IBQUIT=2 Q       ; user entered ^^  . I +Y'>0 S IBQUIT=1 Q        ; user is done  . S ^TMP("IBBIL-DIV",$J,+Y)=$P(Y,U,2)  . Q  ;  I IBQUIT S VALMQUIT=1 G INITQ  ;User "^" out of the selection  ;  I '$O(^TMP("IBBIL-DIV",$J,"")) D  G DIV  . W \*7,!!?3,"No divisions have been selected. Please try again."  . Q  ; DIVX ; Exit Division selection.  ;  W !  I '$G(IBMRANOT) S DIR("A")="Within Division " G SRT  ; CLM ; patch 547 - new claim prompt for CBW  ;  S DIR("A")="(P)rimary Claims,(S)econdary Claims or (B)oth: ",DIR("B")="Both"  S DIR(0)="SBA^P -:Primary Claims;S -:Secondary Claims;B -:Both"  S DIR("?")="This field determines whether you want to search for just primary claims, just secondary/tertiary claims or both."  D ^DIR K DIR S DIR("A")=""  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  S IBSRCH=$E(Y)  W !  ; SRT ;  S DIR("A")=DIR("A")\_"Sort By: ",DIR("B")="BILLER"  S DIR(0)="SBA^B:BILLER;D:DAYS SINCE TRANSMISSION OF LATEST BILL;L:DATE LAST "\_$S($G(IBMRANOT):"EOB",1:"MRA")\_" RECEIVED;"  ; IB\*2.0\*547 add Tertiary and Primary Insurance Company sorts for CBW  S:'$G(IBMRANOT) DIR(0)=DIR(0)\_"I:SECONDARY INSURANCE COMPANY;M:"\_$S($G(IBMRANOT):"EOB",1:"MRA")\_" STATUS;P:PATIENT NAME;R:PATIENT RESPONSIBILITY;S:SERVICE DATE"  S:$G(IBMRANOT)=1 DIR(0)=DIR(0)\_"I:SECONDARY INSURANCE COMPANY;M:"\_$S($G(IBMRANOT):"EOB",1:"MRA")\_" STATUS;P:PATIENT NAME;R:PATIENT RESPONSIBILITY;S:SERVICE DATE;K:PRIMARY INSURANCE COMPANY"  S DIR("?")="Enter the code to indicate how the list should be sorted." D ^DIR K DIR  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  S IBSRT=Y  ;  W !  S IBMRADUP=0  S DIR("A")="Do you want to include Denied "\_$S($G(IBMRANOT):"EOB",1:"MRA")\_"s for Duplicate Claim/Service",DIR("B")="No",DIR(0)="YO"  D ^DIR K DIR  I $D(DTOUT)!$D(DUOUT) S VALMQUIT=1 G INITQ  I Y S IBMRADUP=1  ;  D BLD^IBCECOB1  ; INITQ Q  ; HELP ; -- help code  S X="?" D DISP^XQORM1 W !!  Q  ; EXIT ; -- exit code  K ^TMP("IBBIL",$J),^TMP("IBBIL-DIV",$J)  K ^TMP("IBCECOB",$J),^TMP("IBCECOB1",$J)  K ^TMP("IBCOBST",$J),^TMP("IBCOBSTX",$J)  D CLEAN^VALM10  Q  ; EXP ; -- expand code to show additional details of the EOB record  NEW IBDA,IBIFN,LSTENTRY  D SEL^IBCECOB2(.IBDA,1) ; selects a bill  S LSTENTRY=+$O(IBDA(0)) I 'LSTENTRY G EXPQ    ; list entry number  S IBIFN=+$G(IBDA(LSTENTRY)) I 'IBIFN G EXPQ   ; bill#  ;  ; If only one MRA on file, call the listman screen and quit  I $$MRACNT^IBCEMU1(IBIFN)=1 D EN^VALM("IBCEM MRA DETAIL") G EXPQ  ; EXPLOOP ; At this point, we know there are multiple MRA's on file  ;  D FULL^VALM1  I $$SEL^IBCEMU1(IBIFN,1,LSTENTRY) D  G EXPLOOP  ; MRA lister/selection  . NEW IBIFN,LSTENTRY,IBDASAVE                   ; protect variables  . M IBDASAVE=IBDA                               ; save off IBDA array  . D EN^VALM("IBCEM MRA DETAIL") ; call the listman  . M IBDA=IBDASAVE                               ; restore IBDA array  . Q EXPQ ;  S VALMBCK="R"  Q  ; COBPOSS(IB364) ; Returns 1 if transmit bill ien in IB364 is currently  ; in a status where COB may be performed on the bill  ; Used by index "ACOB", file 364  N IBWNR,IBNSEQ,IB01,IBM1,IBU1,IB0,IBOK,IBMRA  S IBOK=1  S IB0=$G(^IBA(364,IB364,0))  S IBWNR=$$WNRBILL^IBEFUNC(+IB0),IBMRA=$P($G(^DGCR(399,+IB0,"TX")),U,5)  S IB01=$G(^DGCR(399,+IB0,0)),IBM1=$G(^("M1")),IBU1=$G(^("U1"))  I 'IBWNR,IBU1-$P(IBU1,U,2)'>0 S IBOK=0 G COBQ ; Bill has a 0 balance  I $S('IBWNR:$E($P(IB0,U,3))'="A",1:IBMRA'="1N"&(IBMRA'="A")) S IBOK=0 G COBQ ; Not in correct transmit status  S IBNSEQ=+$TR($P(IB0,U,8),"PST","230")  I 'IBNSEQ!'$D(^DGCR(399,+IB0,"I"\_IBNSEQ)) S IBOK=0 G COBQ ; No next ins  I "234"'[$P(IB01,U,13) S IBOK=0 G COBQ ; Bill invalid status for COB  I IBNSEQ D  . N Z,IBSTOP  . S IBSTOP=0  . F Z=IBNSEQ:1:3 D  Q:IBSTOP  .. I $D(^DGCR(399,+IB0,"I"\_Z)) D  ... ;Insurance must reimburse  ... I $P($G(^DIC(36,+^DGCR(399,+IB0,"I"\_Z),0)),U,2)="N" S IBOK=0 Q  ... I $P(IBM1,U,4+Z) S IBOK=0,IBSTOP=1 Q  ; Already has a next seq bill  ... S (IBOK,IBSTOP)=1  ; COBQ Q IBOK  ; | | | | | | | | | |