**MCCF EDI TAS EINSURANCE US3757**

System Design Document

IB\*2.0\*602



Department of Veterans Affairs

**Noverber 2018**

Version 1.2

**User Story Number:** US3757

**User Story Name:** Excel Report Titles – Medium Demand Reports

|  |  |
| --- | --- |
| **Epic Taxonomy** | eBiz Compliance  Port  Update  Increase No Touch  TAS Apps |

# Story:

|  |  |  |
| --- | --- | --- |
| **As a...** | **I want to...** | **So that...** |
| Insurance Verification User | The following reports generated in Excel format to include the same identifying information (with the exceptions of the label “Page:” and the page number) as that presented in the header of the displayed report:   * User Edit Report * Generate Insurance Company Listings * List New Not Verified Policies | I can research and identify trends using the same consistent information to compare one export to another. |

User Edit Report

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | IBCNAU3 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | User Edit Report [IBCN USER EDIT RPT] | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  |  | | | | | $$GET1^DIQ  ^DIR  $$FMTE^XLFDT  $$NOW^XLFDT | | | |
| Routines | Activities | | | | | | | | |
| **Data Dictionary (DD) References** |  | | | | | | | | |
| **Related Protocols** |  | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** |  | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | Name:  Definition: | | | | | | | | |
| **Output Attribute Name and Definition** | Name:  Definition: | | | | | | | | |
| Current Logic | | | | | | | | | |
| IBCNAU3 ;ALB/KML/AWC - eIV USER EDIT REPORT (PRINT) ;6-APRIL-2015  ;;2.0;INTEGRATED BILLING;\*\*528\*\*;21-MAR-94;Build 163  ;;Per VA Directive 6402, this routine should not be modified. | | | | | | | | | |
| Modified Logic (Changes are in bold) | | | | | | | | | |
| IBCNAU3 ;ALB/KML/AWC - eIV USER EDIT REPORT (PRINT) ;6-APRIL-2015  ;;2.0;INTEGRATED BILLING;\*\*528,602\*\*;21-MAR-94;Build 163  ;;Per VA Directive 6402, this routine should not be modified. | | | | | | | | | |
| Current Logic | | | | | | | | | |
| EXCEL(PLANS) ; user selected format that can be viewed in MS Excel  N IBI,IBJ,IBK,IBL,IBM,IB01,IB02,USER,DATE  S (IB01,IB02)=0  W !,"USER EDIT REPORT",!  ;  I PLANS W !,"Insurance Company^Group Name^User^Date/Time of Change^Modified Field^Previous Value of Data^Modified Value of Data",!  E  W !,"Insurance Company^User^Date/Time of Change^Modified Field^Previous Value of Data^Modified Value of Data",!  ;  F IB01=0,1 F  S IB02=$O(^TMP("IBPR",$J,IB01,IB02)) Q:'IB02  S IBPD=$G(^TMP("IBPR",$J,IB01,IB02)) D  . S USER=$$GET1^DIQ(200,$P(IBPD,U,3)\_",",.01)  . S DATE=$$FMTE^XLFDT($P(IBPD,U,4),2)  . I IB01=0 W $P(IBPD,U)\_U\_USER\_U\_DATE\_U\_$P(IBPD,U,7)\_U\_$S($P(IBPD,U,5)="":"<no previous value>",1:$P(IBPD,U,5))\_U\_$P(IBPD,U,6)  . E  W $P(IBPD,U)\_U\_$P(IBPD,U,2)\_U\_USER\_U\_DATE\_U\_$P(IBPD,U,7)\_U\_$S($P(IBPD,U,5)="":"<no previous value>",1:$P(IBPD,U,5))\_U\_$P(IBPD,U,6)  . W !  ; -- write to screen  I $E(IOST,1,2)["C-" W !,"[END OF REPORT]",! S DIR("A")="Press RETURN to continue" D PAUSE  Q | | | | | | | | | |
| Modified Logic (Changes are in bold) | | | | | | | | | |
| EXCEL(PLANS) ; user selected format that can be viewed in MS Excel  N IBI,IBJ,IBK,IBL,IBM,IB01,IB02,USER,DATE  S (IB01,IB02)=0 **IB\*nnn/HN ; Add report headers to Excel Spreadsheets   W !,"USER EDIT REPORT^"\_$$FMTE^XLFDT($$NOW^XLFDT,1)  ; IB\*602/HN end**   ;   I PLANS W !,"Insurance Company^Group Name^User^Date/Time of Change^Modified Field^Previous Value of Data^Modified Value of Data",!  E  W !,"Insurance Company^User^Date/Time of Change^Modified Field^Previous Value of Data^Modified Value of Data",!  ;  F IB01=0,1 F  S IB02=$O(^TMP("IBPR",$J,IB01,IB02)) Q:'IB02  S IBPD=$G(^TMP("IBPR",$J,IB01,IB02)) D  . S USER=$$GET1^DIQ(200,$P(IBPD,U,3)\_",",.01)  . S DATE=$$FMTE^XLFDT($P(IBPD,U,4),2)  . I IB01=0 W $P(IBPD,U)\_U\_USER\_U\_DATE\_U\_$P(IBPD,U,7)\_U\_$S($P(IBPD,U,5)="":"<no previous value>",1:$P(IBPD,U,5))\_U\_$P(IBPD,U,6)  . E  W $P(IBPD,U)\_U\_$P(IBPD,U,2)\_U\_USER\_U\_DATE\_U\_$P(IBPD,U,7)\_U\_$S($P(IBPD,U,5)="":"<no previous value>",1:$P(IBPD,U,5))\_U\_$P(IBPD,U,6)  . W !  ; -- write to screen  I $E(IOST,1,2)["C-" W !,"[END OF REPORT]",! S DIR("A")="Press RETURN to continue" D PAUSE  Q | | | | | | | | | |

Generate Insurance Company Listings

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | IBCOMD1 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | Generate Insurance Company Listings [IBCN ID DUP INSURANCE ENTRIES] | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  |  | | | | | ^%ZISC  ^DIR  $$STATE^IBCF2  $$EXPAND^IBTRE  $$FMTE^XLFDT  $$NOW^XLFDT | | | |
| Routines | Activities | | | | | | | | |
| **Data Dictionary (DD) References** |  | | | | | | | | |
| **Related Protocols** |  | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** |  | | | | | | | | |
| **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 | | | | | | | | | |
| IBCOMD1 ;ALB/CMS - GENERATE INSURANCE COMPANY LISTINGS ;03-AUG-98  ;;2.0;INTEGRATED BILLING;\*\*103,528\*\*;21-MAR-94;Build 163  ;;Per VA Directive 6402, this routine should not be modified. | | | | | | | | | |
| Modified Logic (Changes are in bold) | | | | | | | | | |
| IBCOMD1 ;ALB/CMS - GENERATE INSURANCE COMPANY LISTINGS ;03-AUG-98  ;;2.0;INTEGRATED BILLING;\*\*103,528,**602**\*\*;21-MAR-94;Build 163  ;;Per VA Directive 6402, this routine should not be modified. | | | | | | | | | |
| Current Logic | | | | | | | | | |
| HD ; Write Heading  S IBPAGE=IBPAGE+1  I IBOUT="E" W:($E(IOST,1,2)["C-") ! W "Active/Inactive^Insurance Name^Reimburse?^Street Address 1^Street Address 2^Street Address 3^City^State^ZIP^Phone Number" Q  W @IOF,"Generate Insurance Company Listings",?50,$$FMTE^XLFDT($$NOW^XLFDT,"Z"),?70," Page ",IBPAGE  W !,"List of ",$S(IBAIB=1:"Active",IBAIB=2:"Inactive",1:"All")," Insurance Companies"  ;  ; - display definition of screens  I $D(IBCASE) W ", where" D  .N I,H  .S (H,I)=0 F  S I=$O(IBCASE(I)) Q:'I  D  ..W ! I H W ?3,"and"  ..S H=1 W ?8,IBFLD(I)," "  ..W $S(I=4:"Equals ",$P(IBCASE(I),"^")="C":"Contains ",1:"Between ")  ..W $S(I=4:$P($G(^DIC(5,+$P(IBCASE(I),"^",2),0)),"^"),$P(IBCASE(I),"^",2)="":"'FIRST'",1:$P(IBCASE(I),"^",2))  ..I $P(IBCASE(I),"^")="R" W " and ",$S($P(IBCASE(I),"^",3)="zzzzzz":"'LAST'",1:$P(IBCASE(I),"^",3))  ;  W !,"Insurance Name/Address",?33,"Reimburse?",?56,"Phone Number"  W ! F IBX=1:1:79 W "="  Q  ; | | | | | | | | | |
| Modified Logic (Changes are in bold) | | | | | | | | | |
| HD ; Write Heading  S IBPAGE=IBPAGE+1 **; IB\*nnn/HN ; Add report headers to Excel Spreadsheets    I IBOUT="E" D  Q  .W !,"Generate Insurance Company Listings^"\_$$FMTE^XLFDT($$NOW^XLFDT,1)  .W !,"List of ",$S(IBAIB=1:"Active",IBAIB=2:"Inactive",1:"All")," Insurance Companies"  .;  .; - display definition of screens  .I $D(IBCASE) W "^where" D  ..N I,H  ..S (H,I)=0 F  S I=$O(IBCASE(I)) Q:'I  D  ...I H W "^and"  ...S H=1 W "^"\_IBFLD(I)  ...W $S(I=4:"^Equals ",$P(IBCASE(I),"^")="C":"^Contains ",1:"^Between ")  ...W $S(I=4:$P($G(^DIC(5,+$P(IBCASE(I),"^",2),0)),"^"),$P(IBCASE(I),"^",2)="":"^'FIRST'",1:$P(IBCASE(I),"^",2))  ...I $P(IBCASE(I),"^")="R" W "^and ",$S($P(IBCASE(I),"^",3)="zzzzzz":"^'LAST'",1:$P(IBCASE(I),"^",3))  .;   .W !,"Active/Inactive^Insurance Name^Reimburse?^Street Address 1^Street Address 2^Street Address 3^City^State^ZIP^Phone Number"  ; IB\*602/HN end**  W @IOF,"Generate Insurance Company Listings",?50,$$FMTE^XLFDT($$NOW^XLFDT,"Z"),?70," Page ",IBPAGE  W !,"List of ",$S(IBAIB=1:"Active",IBAIB=2:"Inactive",1:"All")," Insurance Companies"  ;  ; - display definition of screens  I $D(IBCASE) W ", where" D  .N I,H  .S (H,I)=0 F  S I=$O(IBCASE(I)) Q:'I  D  ..W ! I H W ?3,"and"  ..S H=1 W ?8,IBFLD(I)," "  ..W $S(I=4:"Equals ",$P(IBCASE(I),"^")="C":"Contains ",1:"Between ")  ..W $S(I=4:$P($G(^DIC(5,+$P(IBCASE(I),"^",2),0)),"^"),$P(IBCASE(I),"^",2)="":"'FIRST'",1:$P(IBCASE(I),"^",2))  ..I $P(IBCASE(I),"^")="R" W " and ",$S($P(IBCASE(I),"^",3)="zzzzzz":"'LAST'",1:$P(IBCASE(I),"^",3))  ;  W !,"Insurance Name/Address",?33,"Reimburse?",?56,"Phone Number"  W ! F IBX=1:1:79 W "="  Q  ; WRT ; Write data lines  N IBA,IBNA,IBOFF,IBACT,X,Y S IBQUIT=0  S IBA="" F  S IBA=$O(^TMP("IBCOMD",$J,IBA)) Q:(IBA="")!(IBQUIT=1) D  .I IBPAGE,(IBOUT="R") D ASK I IBQUIT=1 Q  .; Excel Output  .I IBOUT="E" S IBACT=$S(IBA=1:"Inactive",1:"Active")  .; Report Output  .I IBOUT="R" D HD W !,$S(IBA=1:"Inactive Companies",1:"Active Companies"),!  .S IBNA="" F  S IBNA=$O(^TMP("IBCOMD",$J,IBA,IBNA)) Q:(IBNA="")!(IBQUIT=1) D  ..S IBDA="" F  S IBDA=$O(^TMP("IBCOMD",$J,IBA,IBNA,IBDA)) Q:('IBDA)!(IBQUIT=1) D  ...S IBTMP=^TMP("IBCOMD",$J,IBA,IBNA,IBDA)  ...S IBOFF=$S($P(IBTMP,U,4)]""!($P(IBTMP,U,5)]""):7,1:6)  ...I ($Y+IBOFF)>IOSL,(IBOUT="R") D  I IBQUIT=1 Q  ....D ASK I IBQUIT=1 Q  ....D HD  ...S IBTMP=^TMP("IBCOMD",$J,IBA,IBNA,IBDA)  ...; Excel Output  ...I IBOUT="E" W !,IBACT\_U\_IBTMP Q  ...; Report Output  ...W !!,$P(IBTMP,U,1),?33,$P(IBTMP,U,2),?56,$P(IBTMP,U,9)  ...I $P(IBTMP,U,3)]"" W !,$P(IBTMP,U,3)  ...I $P(IBTMP,U,4)]""!($P(IBTMP,U,5)]"") W !,$P(IBTMP,U,4) W:$P(IBTMP,U,4)]""&($P(IBTMP,U,5)]"") ", " W $P(IBTMP,U,5)  ...W !,$P(IBTMP,U,6) W:$P(IBTMP,U,6)]""&($P(IBTMP,U,7)]"") ", " W $P(IBTMP,U,7)," ",$P(IBTMP,U,8)  I 'IBQUIT D ASK  Q  ; | | | | | | | | | |

List New not Verified Policies

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | **IBCOC1** | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | List New not Verified Policies [IBCN LIST NEW NOT VER] | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  |  | | | | | ^%ZIS  HOME^%ZIS  ^%ZISC  ^%ZTLOAD  EN1^DIP  $$GET1^DIQ  ^DIR  $$ZND^IBCNS1  ASK^IBCOMC2  $$DAT1^IBOUTL  DATE^IBOUTL  ADD^VADPT  DEM^VADPT  $$FMTE^XLFDT | | | |
| Routines | Activities | | | | | | | | |
| **Data Dictionary (DD) References** |  | | | | | | | | |
| **Related Protocols** |  | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** |  | | | | | | | | |
| **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 | | | | | | | | | |
| IBCOC1 ;ALB/NLR - NEW, NOT VERIFIED INS. ENTRIES ;24-NOV-93  ;;2.0;INTEGRATED BILLING;\*\*528\*\*;21-MAR-94;Build 163  ;;Per VA Directive 6402, this routine should not be modified. | | | | | | | | | |
| Modified Logic (Changes are in bold) | | | | | | | | | |
| IBCOC1 ;ALB/NLR - NEW, NOT VERIFIED INS. ENTRIES ;24-NOV-93  ;;2.0;INTEGRATED BILLING;\*\*528**,602**\*\*;21-MAR-94;Build 163  ;;Per VA Directive 6402, this routine should not be modified. | | | | | | | | | |
| Current Logic | | | | | | | | | |
| COMPXL ; Compile Excel data; Input variables:  ; IBRF - Required. Name Range Start value  ; IBRL - Required. Name Range Go To value  ; IBBDT - Required. Begining Entered Date Range  ; IBEDT - Required. Ending Entered Date Range  ;  N IBC,IBCDA,IBCDA0,IBCDA1,IBSSN,IBINS,IBSUBID,IBENDT,IBENUSR,DFN,VA,VADM,VAERR,VAPA  K ^TMP("IBCOC1",$J)  S IBC=0 F  S IBC=$O(^DPT("AB",IBC)) Q:'IBC  D  .S DFN=0 F  S DFN=$O(^DPT("AB",IBC,DFN)) Q:'DFN  D  ..K VA,VADM,VAERR,VAPA  ..D DEM^VADPT,ADD^VADPT  ..;  ..; I Pt. name out of range quit  ..S VADM(1)=$P($G(VADM(1)),U,1) I VADM(1)="" Q  ..I VADM(1)]IBRL Q  ..I IBRF]VADM(1) Q  ..;  ..S IBCDA=0 F  S IBCDA=$O(^DPT("AB",IBC,DFN,IBCDA)) Q:'IBCDA  D  ...S IBCDA0=$$ZND^IBCNS1(DFN,IBCDA) ;516 - baa  ...;  ...; I Verification Date populated quit  ...S IBCDA1=$G(^DPT(DFN,.312,IBCDA,1))  ...I $P(IBCDA1,U,3) Q  ...;  ...; I Entered Date out of range quit  ...I +$P(IBCDA1,U)>IBEDT Q  ...I +$P(IBCDA1,U)<IBBDT Q  ...;  ...; Get data fields  ...S IBSSN=$$GET1^DIQ(2,DFN,.09)  ...S IBINS=$$GET1^DIQ(2.312,IBCDA\_","\_DFN\_",",.01)  ...S IBSUBID=$$GET1^DIQ(2.312,IBCDA\_","\_DFN\_",",7.02)  ...S IBENUSR=$$GET1^DIQ(2.312,IBCDA\_","\_DFN\_",",1.02)  ...S IBENDT=$$FMTE^XLFDT($P(IBCDA1,U),1)  ...;  ...; Set global array  ...S ^TMP("IBCOC1",$J,VADM(1),IBCDA)=VADM(1)\_U\_IBSSN\_U\_IBINS\_U\_IBSUBID\_U\_IBENUSR\_U\_IBENDT  ;  W "PATIENT^PATIENT ID^INSURANCE CO^SUBSCRIBER ID^WHO ENTERED^DATE ENTERED"  I '$D(^TMP("IBCOC1",$J)) W !!,"\*\* NO RECORDS FOUND \*\*" D ASK^IBCOMC2 Q  D WRT,ASK^IBCOMC2  ;  Q | | | | | | | | | |
| Modified Logic (Changes are in bold) | | | | | | | | | |
| COMPXL ; Compile Excel data  ; Input variables:  ; IBRF - Required. Name Range Start value  ; IBRL - Required. Name Range Go To value  ; IBBDT - Required. Begining Entered Date Range  ; IBEDT - Required. Ending Entered Date Range  ;  N IBC,IBCDA,IBCDA0,IBCDA1,IBSSN,IBINS,IBSUBID,IBENDT,IBENUSR,DFN,VA,VADM,VAERR,VAPA  K ^TMP("IBCOC1",$J)  S IBC=0 F  S IBC=$O(^DPT("AB",IBC)) Q:'IBC  D  .S DFN=0 F  S DFN=$O(^DPT("AB",IBC,DFN)) Q:'DFN  D  ..K VA,VADM,VAERR,VAPA  ..D DEM^VADPT,ADD^VADPT  ..;  ..; I Pt. name out of range quit  ..S VADM(1)=$P($G(VADM(1)),U,1) I VADM(1)="" Q  ..I VADM(1)]IBRL Q  ..I IBRF]VADM(1) Q  ..;  ..S IBCDA=0 F  S IBCDA=$O(^DPT("AB",IBC,DFN,IBCDA)) Q:'IBCDA  D  ...S IBCDA0=$$ZND^IBCNS1(DFN,IBCDA) ;516 - baa  ...;  ...; I Verification Date populated quit  ...S IBCDA1=$G(^DPT(DFN,.312,IBCDA,1))  ...I $P(IBCDA1,U,3) Q  ...;  ...; I Entered Date out of range quit  ...I +$P(IBCDA1,U)>IBEDT Q  ...I +$P(IBCDA1,U)<IBBDT Q  ...;  ...; Get data fields  ...S IBSSN=$$GET1^DIQ(2,DFN,.09)  ...S IBINS=$$GET1^DIQ(2.312,IBCDA\_","\_DFN\_",",.01)  ...S IBSUBID=$$GET1^DIQ(2.312,IBCDA\_","\_DFN\_",",7.02)  ...S IBENUSR=$$GET1^DIQ(2.312,IBCDA\_","\_DFN\_",",1.02)  ...S IBENDT=$$FMTE^XLFDT($P(IBCDA1,U),1)  ...;  ...; Set global array  ...S ^TMP("IBCOC1",$J,VADM(1),IBCDA)=VADM(1)\_U\_IBSSN\_U\_IBINS\_U\_IBSUBID\_U\_IBENUSR\_U\_IBENDT  ;  **;IB\*2.0\*602/??? Add title to Excel Report  W "REPORT OF NEW, NOT VERIFIED INSURANCE ENTRIES FROM: ",$$DAT1^IBOUTL(IBBDT)," TO: ",$$DAT1^IBOUTL(IBEDT)  W !,"NAMES RANGING FROM ",$S(IBRF="A":"FIRST",1:IBRF)," TO ",$S(IBRL="zzzzzz":"LAST",1:IBRL),!**  ; IB\*602/HN end W **!,**"PATIENT^PATIENT ID^INSURANCE CO^SUBSCRIBER ID^WHO ENTERED^DATE ENTERED"  I '$D(^TMP("IBCOC1",$J)) W !!,"\*\* NO RECORDS FOUND \*\*" D ASK^IBCOMC2 Q  D WRT,ASK^IBCOMC2  ;  Q   ; | | | | | | | | | |

# Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 03/09/2018 | 1.0 | Initial draft | Henry Normand |
| 03/21/2018 | 1.1 | After Code Review | Henry Normand |
| 11/29/2018 | 1.2 | After IOC Testing | Henry Normand |