**MCCF EDI TAS US1166**

System Design Document

IB\*2.0\*577



Department of Veterans Affairs

**May 2017**

Version 1.02

**User Story Number:** US1166

**User Story Name:** Print NDC Number on UB04

**Resolution – Data Design**

* Modify/add a couple of lines of code in ^IBCEF22 to format the Quantity with up to 3 decimal places. Note that US11 adds the Unit of Measure to the UB-04 and the new logic per US11is highlighted. This SDD modifies this code and is highlighted in yellow in the “Modified Logic” section.

| **Routines** | **Activities** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | IBCEF22 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | None | | | | | | | | |
| **Related Routines** | **Routines “Called By”** | | | | | **Routines “Called”** | | | |
|  |  | | | | |  | | | |
| **Data Dictionary (DD) References** | “Units/Basis of Measurement” field [#399.0304, 52]  “NDC Number” field [#399.0304, 53]  “Quantity” field [#399.0304, 54] | | | | | | | | |
| **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** | | | | | | | | | |
| IBCEF22 ;ALB/TMP - FORMATTER SPECIFIC BILL FUNCTIONS ;06-FEB-96  ;;2.0;INTEGRATED BILLING;\*\*51,137,135,155,309,349,389,432,488,516\*\*;21-MAR-94;Build 123  ;;Per VA Directive 6402, this routine should not be modified.  ;  ; OVERFLOW FROM ROUTINE IBCEF2  HOS(IBIFN) ; Extract rev codes for episode billed on a UB-04 into IBXDATA  ; IBIFN = bill ien  ; Format: IBXDATA(n) =  ; rev cd ptr ^ CPT CODE ptr ^ unit chg ^ units ^ tot charge  ; ^ tot uncov ^ FL49 value  ; ^ ien of rev code multiple entry(s) (separated by ";")  ; ^ modifiers specific to rev code/proc (separated by ",")  ; ^ rev code date, if it can be determined by a corresponding proc  ; ^ NDC from "CP" node of claim ^ Units/Quantity from "CP" node  ; ^ Units/Basis of Measurement for Drugs  ;  ; Also Returns IBXDATA(IBI,"COB",COB,m) with COB data for each line  ; item found in an accepted EOB for the bill and = the reference  ; line in the first '^' piece followed by the '0' node of file  ; 361.115 (LINE LEVEL ADJUSTMENTS)  ; COB = COB seq # of adjustment's ins co, m = seq #  ; -- AND --  ; IBXDATA(IBI,"COB",COB,m,z,p)=  ; the '0' node for each subordinate entry of file  ; 361.11511 (REASONS) (Only first 3 pieces for 837)  ; z = group code, sometimes preceeded by a space p = seq #  ;  ; -- AND --  ; IBXDATA(n,"CPLNK") = soft link to corresponding entry in PROCEDURES multiple of file 399  ;  …  D SPLIT ; 488 ; baa  ;  ; Loop through IBX1 and build the array IBXDATA. Everything in the  ; array IBXDATA comes from the array IBX1.  ;  S IBS="",IBLN=0  F S IBS=$O(IBX1(IBS)) Q:IBS="" S IBPO=0 F S IBPO=$O(IBX1(IBS,IBPO)) Q:'IBPO S IBSS="" F S IBSS=$O(IBX1(IBS,IBPO,IBSS))  Q:IBSS="" D  . S IBX=$G(IBX1(IBS,IBPO,IBSS,1)),IBZ=$G(IBX1(IBS,IBPO,IBSS,2))  . S IBLN=$G(IBLN)+1,IBXDATA(IBLN)=$P(IBX,U)\_U\_$P(IBZ,U,6)\_U\_$P(IBZ,U,2)\_U\_+IBX1(IBS,IBPO,IBSS)\_U\_+$P(IBX1(IBS,IBPO,IBSS),U,  2),$P(IBXDATA(IBLN),U,10)=$G(IBX1(IBS,IBPO,IBSS,"DT"))  . S $P(IBXDATA(IBLN),U,6)=$P(IBZ,U,9),$P(IBXDATA(IBLN),U,7)=$P(IBZ,U,13),$P(IBXDATA(IBLN),U,8)=$G(IBX1(IBS,IBPO,IBSS,"IEN")  ),$P(IBXDATA(IBLN),U,9)=$P($P(IBSS,U,3),",",1,2)  . S IBXDATA(IBLN,"CPLNK")=$$RC2CP(IBIFN,$P($P(IBXDATA(IBLN),U,8),";"))  . ;  . ; MRD;IB\*2.0\*516 - Added NDC and Units to line level of claim.  . ;I IBXDATA(IBLN,"CPLNK") S $P(IBXDATA(IBLN),U,11,12)=$TR($P($G(^DGCR(399,IBIFN,"CP",IBXDATA(IBLN,"CPLNK"),1)),U,7,8),"-")  . ; VAD;IB\*2.0\*??? – Added Unit/Basis of Measurement to line level of claim.  . I IBXDATA(IBLN,"CPLNK") S $P(IBXDATA(IBLN),U,11,13)=$TR($P($G(^DGCR(399,IBIFN,"CP",IBXDATA(IBLN,"CPLNK"),1)),U,7,9),"-")  . ;  . ; Extract line lev COB data for sec or tert bill  . I $$COBN^IBCEF(IBIFN)>1 D COBLINE^IBCEU6(IBIFN,IBLN,.IBXDATA,,.IBXTRA) I $D(IBXTRA) D COMBO^IBCEU2(.IBXDATA,.IBXTRA,1) ;Handle bundled/unbundled  ;  … | | | | | | | | | |
| **Modified Logic (Changes are highlighted in yellow)** | | | | | | | | | |
| IBCEF22 ;ALB/TMP - FORMATTER SPECIFIC BILL FUNCTIONS ;06-FEB-96  ;;2.0;INTEGRATED BILLING;\*\*51,137,135,155,309,349,389,432,488,516,577\*\*;21-MAR-94;Build 123  ;;Per VA Directive 6402, this routine should not be modified.  ;  ; OVERFLOW FROM ROUTINE IBCEF2  HOS(IBIFN) ; Extract rev codes for episode billed on a UB-04 into IBXDATA  ; IBIFN = bill ien  ; Format: IBXDATA(n) =  ; rev cd ptr ^ CPT CODE ptr ^ unit chg ^ units ^ tot charge  ; ^ tot uncov ^ FL49 value  ; ^ ien of rev code multiple entry(s) (separated by ";")  ; ^ modifiers specific to rev code/proc (separated by ",")  ; ^ rev code date, if it can be determined by a corresponding proc  ; ^ NDC from "CP" node of claim ^ Units/Quantity from "CP" node ;vd/IB\*2\*577  ; ^ Units/Basis of Measurement for Drugs - vd/IB\*2\*577  ;  ; Also Returns IBXDATA(IBI,"COB",COB,m) with COB data for each line  ; item found in an accepted EOB for the bill and = the reference  ; line in the first '^' piece followed by the '0' node of file  ; 361.115 (LINE LEVEL ADJUSTMENTS)  ; COB = COB seq # of adjustment's ins co, m = seq #  ; -- AND --  ; IBXDATA(IBI,"COB",COB,m,z,p)=  ; the '0' node for each subordinate entry of file  ; 361.11511 (REASONS) (Only first 3 pieces for 837)  ; z = group code, sometimes preceeded by a space p = seq #  ;  ; -- AND --  ; IBXDATA(n,"CPLNK") = soft link to corresponding entry in PROCEDURES multiple of file 399  ;  …  ;  D SPLIT ; 488 ; baa  ;  ; Loop through IBX1 and build the array IBXDATA. Everything in the  ; array IBXDATA comes from the array IBX1.  ;  S IBS="",IBLN=0  F S IBS=$O(IBX1(IBS)) Q:IBS="" S IBPO=0 F S IBPO=$O(IBX1(IBS,IBPO)) Q:'IBPO S IBSS="" F S IBSS=$O(IBX1(IBS,IBPO,IBSS))  Q:IBSS="" D  . S IBX=$G(IBX1(IBS,IBPO,IBSS,1)),IBZ=$G(IBX1(IBS,IBPO,IBSS,2))  . S IBLN=$G(IBLN)+1,IBXDATA(IBLN)=$P(IBX,U)\_U\_$P(IBZ,U,6)\_U\_$P(IBZ,U,2)\_U\_+IBX1(IBS,IBPO,IBSS)\_U\_+$P(IBX1(IBS,IBPO,IBSS),U,  2),$P(IBXDATA(IBLN),U,10)=$G(IBX1(IBS,IBPO,IBSS,"DT"))  . S $P(IBXDATA(IBLN),U,6)=$P(IBZ,U,9),$P(IBXDATA(IBLN),U,7)=$P(IBZ,U,13),$P(IBXDATA(IBLN),U,8)=$G(IBX1(IBS,IBPO,IBSS,"IEN")  ),$P(IBXDATA(IBLN),U,9)=$P($P(IBSS,U,3),",",1,2)  . S IBXDATA(IBLN,"CPLNK")=$$RC2CP(IBIFN,$P($P(IBXDATA(IBLN),U,8),";"))  . ;  . ; MRD;IB\*2.0\*516 - Added NDC and Units to line level of claim.  . ;I IBXDATA(IBLN,"CPLNK") S $P(IBXDATA(IBLN),U,11,12)=$TR($P($G(^DGCR(399,IBIFN,"CP",IBXDATA(IBLN,"CPLNK"),1)),U,7,8),"-")  . ; VAD;IB\*2.0\*577 – Added Unit/Basis of Measurement to line level of claim.  . ; VD;IB\*2.0\*577 - Added DO in order to format the quantity with up to 3 decimals (no decimals if whole #)  . ;I IBXDATA(IBLN,"CPLNK") S $P(IBXDATA(IBLN),U,11,13)=$TR($P($G(^DGCR(399,IBIFN,"CP",IBXDATA(IBLN,"CPLNK"),1)),U,7,9),"-") ;VD;IB\*2.0\*577 ‘;’  . I IBXDATA(IBLN,"CPLNK") D  . . S $P(IBXDATA(IBLN),U,11,13)=$TR($P($G(^DGCR(399,IBIFN,"CP",IBXDATA(IBLN,"CPLNK"),1)),U,7,9),"-") ;VD;IB\*2.0\*577  . . I +$P(IBXDATA(IBLN),U,12) S $P(IBXDATA(IBLN),U,12)=$S($P(IBXDATA(IBLN),U,12)#1:+$J($P(IBXDATA(IBLN),U,12),0,3),1:$P(IBXDATA(IBLN),U,12))  . ;  . ; Extract line lev COB data for sec or tert bill  . I $$COBN^IBCEF(IBIFN)>1 D COBLINE^IBCEU6(IBIFN,IBLN,.IBXDATA,,.IBXTRA) I $D(IBXTRA) D COMBO^IBCEU2(.IBXDATA,.IBXTRA,1) ;Handle bundled/unbundled  ;  … | | | | | | | | | |

* The IBCF33 routine needs to be modified to put the Unit/Basis of Measure (in addition to “Units/Qty” and “NDC#”) into global ^TMP($J,"IBC-RC"), which is needed by the FORMAT CODE for the REV CODE DESCRIPTION field in form UB-04:

| **Routines** | **Activities** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | IBCF33 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | None | | | | | | | | |
| **Related Routines** | **Routines “Called By”** | | | | | **Routines “Called”** | | | |
|  |  | | | | |  | | | |
| **Data Dictionary (DD) References** | “Units/Basis of Measurement” field [#399.0304, 52]  “NDC Number” field [#399.0304, 53]  “Quantity” field [#399.0304, 54] | | | | | | | | |
| **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** | | | | | | | | | |
| IBCF33 ;ALB/ARH - UB-04 CMS-1450 (GATHER CODES) ;25-AUG-1993  ;;2.0;INTEGRATED BILLING;\*\*52,80,109,51,230,349\*\*;21-MAR-94;Build 46  ;;Per VHA Directive 2004-038, this routine should not be modified.  ;  ;IBIFN required  ;  ; Not all free text prints in these blocks as of MRA/EDI - only print  ; REVENUE CODES and associated data, Rx's and prosthetics  ; and last line to indicate multiple pages  N IBI,IBJ,IBCU2,IBCOL,IBSTATE,IBCBILL,IBINPAT,IBX,IBY,Z,IBZ,IBLPG  S IBLINES=22,IBCU2=$G(^DGCR(399,IBIFN,"U2")),IBCOL=1,IBNOCOM=0  K IBXSAVE("RX-UB-04"),IBXSAVE("PROS-UB-04")  D HOS^IBCEF22(IBIFN)  ;  I $$TXMT^IBCEF4(IBIFN) S IBNOCOM=1  S Z="",IBNOCHG=0  ; Add total line as last entry, if not already there  ;S IBLCT=$O(IBXDATA(""),-1)  ;I IBLCT,$P(IBXDATA(IBLCT),U)'="001" S IBXDATA(IBLCT+1)="001"  ;S IBLCT=0  S IBLPG=($O(IBXDATA(""),-1)+$O(IBXSAVE("RX-UB-04",""),-1)+$O(IBXSAVE("PROS-UB-04",""),-1))/22,IBLPG=IBLPG\1+$S($P(IBLPG,".",2):1,1:0)  F S Z=$O(IBXDATA(Z)) Q:'Z D  . N IBZ1  . ;I $P(IBXDATA(Z),U)="001",'$O(IBXDATA(Z)) S IBZ="001",$P(IBZ,U,4)=$P(IBCBCOMM,U,1),IBDA=0 S:IBNOCHG $P(IBZ,U,9)=$G(IBNOCHG) S IBXDATA(Z)=IBZ D SET1 Q  . ;Get modifiers  . S IBZ1=$G(^DGCR(399,IBIFN,"RC",+$P(IBXDATA(Z),U,8),0)),IBMOD=""  . I $P(IBZ1,U,6),$S($P(IBZ1,U,10)=4:$P(IBZ1,U,11),1:'$P(IBZ1,U,10)) S $P(IBXDATA(Z),U,9)=$$MOD(IBZ1,IBIFN)  . S IBZ=$P(IBXDATA(Z),U)\_U\_$P(IBXDATA(Z),U,3,5)\_"^^"\_$P(IBXDATA(Z),U,2),$P(IBZ,U,9)=$P(IBXDATA(Z),U,6),$P(IBZ,U,13)=$P(IBXDATA(Z),U,7),$P(IBZ,U,10)=$P(IBXDATA(Z),U,9),$P(IBZ,U,14)=$P(IBXDATA(Z),U,10)  . I IBZ S IBNOCHG=IBNOCHG+$P(IBXDATA(Z),U,6),IBDA=$P(IBXDATA(Z),U,8) D SET1  . ;S IBLCT=IBLCT+1  I $D(IBXSAVE("RX-UB-04"))!$D(IBXSAVE("PROS-UB-04")) D  . N Z  . S Z=0 F S Z=$O(IBXSAVE("RX-UB-04",Z)) Q:'Z S IBZ=IBXSAVE("RX-UB-04",Z) D SET2  . S Z=0 F S Z=$O(IBXSAVE("PROS-UB-04",Z)) Q:'Z S IBZ=IBXSAVE("PROS-UB-04",Z) D SET2  D END  Q  ;  RV ;rev codes sorted by bedsection - no longer used as of patch IB\*2\*51  S (IBBSN,IBBS,IBNOCHG)=0 F S IBBS=$O(^DGCR(399,IBIFN,"RC","ABS",IBBS)) Q:'IBBS D  . S IBRV=0 F S IBRV=$O(^DGCR(399,IBIFN,"RC","ABS",IBBS,IBRV)) Q:'IBRV D  .. S IBDA=0 F S IBDA=$O(^DGCR(399,IBIFN,"RC","ABS",IBBS,IBRV,IBDA)) Q:'IBDA D  ... S IBX=$G(^DGCR(399,IBIFN,"RC",IBDA,0))  ... S IBZ=$P($G(^DGCR(399.1,+$P(IBX,U,5),0)),U,1) S IBBSN=IBZ,IBZ=IBX,IBNOCHG=IBNOCHG+$P(IBZ,U,9) D SET1  ;  ;loop through all rev codes, print those with no bedsection  S IBDA=0 F S IBDA=$O(^DGCR(399,IBIFN,"RC",IBDA)) Q:'IBDA S IBZ=$G(^(IBDA,0)) I +IBZ,$P(IBZ,U,5)="" S IBNOCHG=IBNOCHG+$P(IBZ,U,9) D SET1  ;  TOTAL ;add total  ;I +$P(IBCBCOMM,U,2) S IBZ="",$P(IBZ,U,2)="SUBTOTAL",$P(IBZ,U,4)=+$P(IBCBCOMM,U,1) D SET1  ;  ;S IBX=$S(+$P(IBCBCOMM,U,2):4,1:2) D SPACE  S IBX=2 D SPACE  ;S IBZ="" D SET2  ;S IBJ=0 F IBI=4,5,6 S IBJ=IBJ+$P(IBCU2,U,IBI)  ;I +$P(IBCBCOMM,U,2),+$P(IBCBCOMM,U,2)'=IBJ S (IBI,IBZ)="",$P(IBZ,U,2)="LESS "\_$P(IBCBCOMM,U,3),$P(IBZ,U,4)=+$P(IBCBCOMM,U,2) D SET1 S IBZ="" D SET2  ;  ;S IBZ="001",$P(IBZ,U,2)="TOTAL",$P(IBZ,U,4)=IBCBCOMM-$S(IBI="":$P(IBCBCOMM,U,2),1:0) S:IBNOCHG $P(IBZ,U,9)=$G(IBNOCHG) D SET1  ;  ;  CPT ;add additional procedures  ;G:$G(IBFL(80))'>6 OPV S IBX=+IBFL(80)-4 D SPACE  ;S IBZ="" D SET2  ;S IBZ="ADDITIONAL PROCEDURE CODES:" D SET2  ;S IBI=6 F S IBI=$O(IBFL(80,IBI)) Q:'IBI D  ;. S IBX=$P(IBFL(80,IBI),U,2),IBZ=$E(IBX,1,2)\_"/"\_$E(IBX,3,4)\_"/"\_$E(IBX,5,6)\_$J(" ",5)\_$P(IBFL(80,IBI),U,1) D SET2  ;  OPV ;add outpatient visit dates  ;G:'$O(^DGCR(399,IBIFN,"OP",0)) CONT S (IBX,IBY)=0 F S IBX=$O(^DGCR(399,IBIFN,"OP",IBX)) Q:'IBX S IBY=IBY+1  ;S IBX=IBY/3,IBX=IBX\1+$S(+$P(IBX,".",2):1,1:0)+1 D SPACE  ;S IBZ="" D SET2 S IBZ="OP VISIT DATE(S) BILLED:"\_$J(" ",34-24)  ;S (IBI,IBJ)=0 F S IBI=$O(^DGCR(399,IBIFN,"OP",IBI)) Q:'IBI D  ;. S Y=$G(^DGCR(399,IBIFN,"OP",IBI,0)),IBZ=IBZ\_$$FMTE^XLFDT(Y,2)\_$S($O(^DGCR(399,IBIFN,"OP",IBI)):", ",1:"")  ;. S IBJ=IBJ+1 I IBJ>2 D SET2 S IBZ=$J(" ",34),IBJ=0  ;I $L(IBZ)>34 D SET2  ;  CONT ;D ^IBCF331 ;More free text - can no longer print on UB-04  ;  ; fill in rest of page  END D:'$G(IBNOCOM) FILLPG S $P(^TMP($J,"IBC-RC"),U,2)=0 S IBPG=+$G(^TMP($J,"IBC-RC")),IBX=IBPG/22,IBPG=IBX\1+$S(+$P(IBX,".",2):1,1:0)  K IBZ,IBBSN,IBBS,IBRV,IBDA,IBLN,IBCOL,IBLINES,IBARRAY,IBNOCHG,IBNOCOM,IBXSAVE("RX-UB-04"),IBXSAVE("PROS-UB-04")  Q  ;  SPACE ;checks to see if IBX can fit on page, if not starts new page  Q:'IBX N IBLN,IBY S IBLN=+$G(^TMP($J,"IBC-RC")),IBY=IBLN#22 S:IBY=0&(IBLN'=0) IBY=22 I IBX>(IBLINES-IBY) D FILLPG  Q  ;  FILLPG ;fill rest of page with blank lines  N IBI,IBLN,IBZ S IBFILL=1 F IBI=1:1:22 S IBLN=+$G(^TMP($J,"IBC-RC")) Q:'(IBLN#22) S IBZ="" D FILLUP Q:IBFILL=2  K IBFILL Q  ;  SET1 ; add rev codes to array: rev cd ^ rev cd st abbrev. ^ CPT CODE ^ unit charge ^ units ^ total ^ non-cov charge ^ form locator 49 ^ rev code mult ien ^ cpt modifiers attached to revenue code/procedure (unlinked)^ outpt serv date  ;formats for output into specific column blocks 42-48  ;  ;JRA;IB\*2.0\*??? Add Unit/Basis of Measure to array - added after 'units' so the string above will be changed to:  ;rev cd ^ rev cd st abbrev. ^ CPT CODE ^ unit charge ^ units (Qty) ^ unit/basis of measure ^ total ^ non-cov charge ^ form locator 49 ^ rev code mult ien ^ cpt modifiers attached to revenue code/procedure (unlinked)^ outpt serv date  ;  N IBX,IBY,IBLN,IBN,IBMOD  D NEXTLN S IBY=""  ;set up rev cd item with appropriate output values, non-rev cd entries for old bills should already be in external form  S IBN=$P(IBZ,U,9) ;non-covered charges  S IBMOD=$P(IBZ,U,10) I IBMOD'="" S IBMOD=$E($TR(IBMOD,",;"),1,4) ; cpt modifiersset free text into block 42 array  Q:$G(IBNOCOM) ;No comments wanted  N IBLN D NEXTLN S IBCOL=$S('IBCOL:2,1:3)  S IBLN=+$G(^TMP($J,"IBC-RC"))+1 I IBLN#22=1,$G(IBFILL) S IBFILL=2 Q  S ^TMP($J,"IBC-RC",IBLN)=IBCOL\_U\_IBZ,^TMP($J,"IBC-RC")=IBLN I '(IBLN#22) S IBLINES=22  Q  ;  FILLUP ; Fill block 42 with blank lines  N IBLN D NEXTLN S IBCOL=$S('IBCOL:2,1:3)  S IBLN=+$G(^TMP($J,"IBC-RC"))+1 I IBLN#22=1,$G(IBFILL) S IBFILL=2 Q  S ^TMP($J,"IBC-RC",IBLN)=IBCOL\_U\_IBZ,^TMP($J,"IBC-RC")=IBLN I '(IBLN#22) S IBLINES=22  Q  ;  NEXTLN ;checks counter for next line, resets if necessary,  ;ie. if the line # indicated by the next line # var. has already been used then this increments the next line # var.  S IBLN=+$G(^TMP($J,"IBC-RC"))+1 I $D(^TMP($J,"IBC-RC",IBLN)) S ^TMP($J,"IBC-RC")=IBLN S:'(IBLN#22) IBLINES=22 G NEXTLN  Q  ;  MOD(RCLN,IBIFN) ; return modifier(s) for a directly linked CPT charge or for an indirectly linked one  N IBCPTN,IBMOD  S IBMOD=""  I $P($G(RCLN),U,10)=4 S IBCPTN=+$P(RCLN,U,11) I +IBCPTN S IBMOD=$$GETMOD^IBEFUNC(IBIFN,IBCPTN,1) ;Linked  I IBMOD="",$P(RCLN,U,14)'="" S IBMOD=$TR($P(RCLN,U,14),";",",") ; Not linked or linked, but manually entered modifiers only  MODQ Q IBMOD  ;  DATE45(IBIFN,IBXDATA,IBDATE) ; What prints in the service date box of UB-04  ; INPUT:  ; IBIFN = ien of bill  ; IBDATE = the default outpt service date  ; OUTPUT:  ; IBXDATA = the output formatter array with the service dates  ; (pass by reference)  N Z,Z0,IBR,IBIN  S IBIN=$$INPAT^IBCEF(IBXIEN,1)  F Z=1:1 Q:'$D(^TMP($J,"IBC-RC",Z)) S IBR=^(Z) D  . S Z0=$S(+IBR=1&'IBIN&(+$P(IBR,U,2)'=1):$S($P(IBR,U,12):$P(IBR,U,12),1:$G(IBDATE)),+IBR=2:$E($P(IBR,U,2),46,52),1:$E($P(IBR,U,2),41,47))  . S:Z'>22 IBXDATA(Z)=Z0 D:Z>22 CKREV^IBCEF3(Z,Z0)  Q  ; | | | | | | | | | |
| **Modified Logic (Changes are highlighted in yellow)** | | | | | | | | | |
| IBCF33 ;ALB/ARH - UB-04 CMS-1450 (GATHER CODES) ;25-AUG-1993  ;;2.0;INTEGRATED BILLING;\*\*52,80,109,51,230,349,577\*\*;21-MAR-94;Build 46  ;;Per VA Directive 6402, this routine should not be modified.  ;  ;IBIFN required  ;  ; Not all free text prints in these blocks as of MRA/EDI - only print  ; REVENUE CODES and associated data, Rx's and prosthetics  ; and last line to indicate multiple pages  N IBI,IBJ,IBCU2,IBCOL,IBSTATE,IBCBILL,IBINPAT,IBX,IBY,Z,IBZ,IBLPG  S IBLINES=22,IBCU2=$G(^DGCR(399,IBIFN,"U2")),IBCOL=1,IBNOCOM=0  K IBXSAVE("RX-UB-04"),IBXSAVE("PROS-UB-04")  D HOS^IBCEF22(IBIFN)  ;  I $$TXMT^IBCEF4(IBIFN) S IBNOCOM=1  S Z="",IBNOCHG=0  ; Add total line as last entry, if not already there  ;S IBLCT=$O(IBXDATA(""),-1)  ;I IBLCT,$P(IBXDATA(IBLCT),U)'="001" S IBXDATA(IBLCT+1)="001"  ;S IBLCT=0  S IBLPG=($O(IBXDATA(""),-1)+$O(IBXSAVE("RX-UB-04",""),-1)+$O(IBXSAVE("PROS-UB-04",""),-1))/22,IBLPG=IBLPG\1+$S($P(IBLPG,".",2):1,1:0)  F S Z=$O(IBXDATA(Z)) Q:'Z D  . N IBZ1  . ;I $P(IBXDATA(Z),U)="001",'$O(IBXDATA(Z)) S IBZ="001",$P(IBZ,U,4)=$P(IBCBCOMM,U,1),IBDA=0 S:IBNOCHG $P(IBZ,U,9)=$G(IBNOCHG) S IBXDATA(Z)=IBZ D SET1 Q  . ;Get modifiers  . S IBZ1=$G(^DGCR(399,IBIFN,"RC",+$P(IBXDATA(Z),U,8),0)),IBMOD=""  . I $P(IBZ1,U,6),$S($P(IBZ1,U,10)=4:$P(IBZ1,U,11),1:'$P(IBZ1,U,10)) S $P(IBXDATA(Z),U,9)=$$MOD(IBZ1,IBIFN)  . S IBZ=$P(IBXDATA(Z),U)\_U\_$P(IBXDATA(Z),U,3,5)\_"^^"\_$P(IBXDATA(Z),U,2),$P(IBZ,U,9)=$P(IBXDATA(Z),U,6),$P(IBZ,U,13)=$P(IBXDATA(Z),U,7),$P(IBZ,U,10)=$P(IBXDATA(Z),U,9),$P(IBZ,U,14)=$P(IBXDATA(Z),U,10)  . ;VD Add "NDC#", "Unit/Basis of Measure", and "Units/Qty" to pieces 20,21,22 of IBZ, respectively  . S $P(IBZ,U,20)=$P(IBXDATA(Z),U,11),$P(IBZ,U,21)=$P(IBXDATA(Z),U,13)  . S $P(IBZ,U,22)=$P(IBXDATA(Z),U,12)  . I IBZ S IBNOCHG=IBNOCHG+$P(IBXDATA(Z),U,6),IBDA=$P(IBXDATA(Z),U,8) D SET1  . ;S IBLCT=IBLCT+1  I $D(IBXSAVE("RX-UB-04"))!$D(IBXSAVE("PROS-UB-04")) D  . N Z  . S Z=0 F S Z=$O(IBXSAVE("RX-UB-04",Z)) Q:'Z S IBZ=IBXSAVE("RX-UB-04",Z) D SET2  . S Z=0 F S Z=$O(IBXSAVE("PROS-UB-04",Z)) Q:'Z S IBZ=IBXSAVE("PROS-UB-04",Z) D SET2  D END  Q  ;  RV ;rev codes sorted by bedsection - no longer used as of patch IB\*2\*51  S (IBBSN,IBBS,IBNOCHG)=0 F S IBBS=$O(^DGCR(399,IBIFN,"RC","ABS",IBBS)) Q:'IBBS D  . S IBRV=0 F S IBRV=$O(^DGCR(399,IBIFN,"RC","ABS",IBBS,IBRV)) Q:'IBRV D  .. S IBDA=0 F S IBDA=$O(^DGCR(399,IBIFN,"RC","ABS",IBBS,IBRV,IBDA)) Q:'IBDA D  ... S IBX=$G(^DGCR(399,IBIFN,"RC",IBDA,0))  ... S IBZ=$P($G(^DGCR(399.1,+$P(IBX,U,5),0)),U,1) S IBBSN=IBZ,IBZ=IBX,IBNOCHG=IBNOCHG+$P(IBZ,U,9) D SET1  ;  ;loop through all rev codes, print those with no bedsection  S IBDA=0 F S IBDA=$O(^DGCR(399,IBIFN,"RC",IBDA)) Q:'IBDA S IBZ=$G(^(IBDA,0)) I +IBZ,$P(IBZ,U,5)="" S IBNOCHG=IBNOCHG+$P(IBZ,U,9) D SET1  ;  TOTAL ;add total  ;I +$P(IBCBCOMM,U,2) S IBZ="",$P(IBZ,U,2)="SUBTOTAL",$P(IBZ,U,4)=+$P(IBCBCOMM,U,1) D SET1  ;  ;S IBX=$S(+$P(IBCBCOMM,U,2):4,1:2) D SPACE  S IBX=2 D SPACE  ;S IBZ="" D SET2  ;S IBJ=0 F IBI=4,5,6 S IBJ=IBJ+$P(IBCU2,U,IBI)  ;I +$P(IBCBCOMM,U,2),+$P(IBCBCOMM,U,2)'=IBJ S (IBI,IBZ)="",$P(IBZ,U,2)="LESS "\_$P(IBCBCOMM,U,3),$P(IBZ,U,4)=+$P(IBCBCOMM,U,2) D SET1 S IBZ="" D SET2  ;  ;S IBZ="001",$P(IBZ,U,2)="TOTAL",$P(IBZ,U,4)=IBCBCOMM-$S(IBI="":$P(IBCBCOMM,U,2),1:0) S:IBNOCHG $P(IBZ,U,9)=$G(IBNOCHG) D SET1  ;  ;  CPT ;add additional procedures  ;G:$G(IBFL(80))'>6 OPV S IBX=+IBFL(80)-4 D SPACE  ;S IBZ="" D SET2  ;S IBZ="ADDITIONAL PROCEDURE CODES:" D SET2  ;S IBI=6 F S IBI=$O(IBFL(80,IBI)) Q:'IBI D  ;. S IBX=$P(IBFL(80,IBI),U,2),IBZ=$E(IBX,1,2)\_"/"\_$E(IBX,3,4)\_"/"\_$E(IBX,5,6)\_$J(" ",5)\_$P(IBFL(80,IBI),U,1) D SET2  ;  OPV ;add outpatient visit dates  ;G:'$O(^DGCR(399,IBIFN,"OP",0)) CONT S (IBX,IBY)=0 F S IBX=$O(^DGCR(399,IBIFN,"OP",IBX)) Q:'IBX S IBY=IBY+1  ;S IBX=IBY/3,IBX=IBX\1+$S(+$P(IBX,".",2):1,1:0)+1 D SPACE  ;S IBZ="" D SET2 S IBZ="OP VISIT DATE(S) BILLED:"\_$J(" ",34-24)  ;S (IBI,IBJ)=0 F S IBI=$O(^DGCR(399,IBIFN,"OP",IBI)) Q:'IBI D  ;. S Y=$G(^DGCR(399,IBIFN,"OP",IBI,0)),IBZ=IBZ\_$$FMTE^XLFDT(Y,2)\_$S($O(^DGCR(399,IBIFN,"OP",IBI)):", ",1:"")  ;. S IBJ=IBJ+1 I IBJ>2 D SET2 S IBZ=$J(" ",34),IBJ=0  ;I $L(IBZ)>34 D SET2  ;  CONT ;D ^IBCF331 ;More free text - can no longer print on UB-04  ;  ; fill in rest of page  END D:'$G(IBNOCOM) FILLPG S $P(^TMP($J,"IBC-RC"),U,2)=0 S IBPG=+$G(^TMP($J,"IBC-RC")),IBX=IBPG/22,IBPG=IBX\1+$S(+$P(IBX,".",2):1,1:0)  K IBZ,IBBSN,IBBS,IBRV,IBDA,IBLN,IBCOL,IBLINES,IBARRAY,IBNOCHG,IBNOCOM,IBXSAVE("RX-UB-04"),IBXSAVE("PROS-UB-04")  Q  ;  SPACE ;checks to see if IBX can fit on page, if not starts new page  Q:'IBX N IBLN,IBY S IBLN=+$G(^TMP($J,"IBC-RC")),IBY=IBLN#22 S:IBY=0&(IBLN'=0) IBY=22 I IBX>(IBLINES-IBY) D FILLPG  Q  ;  FILLPG ;fill rest of page with blank lines  N IBI,IBLN,IBZ S IBFILL=1 F IBI=1:1:22 S IBLN=+$G(^TMP($J,"IBC-RC")) Q:'(IBLN#22) S IBZ="" D FILLUP Q:IBFILL=2  K IBFILL Q  ;  SET1 ; add rev codes to array: rev cd ^ rev cd st abbrev. ^ CPT CODE ^ unit charge ^ units ^ total ^ non-cov charge ^ form locator 49 ^ rev code mult ien ^ cpt modifiers attached to revenue code/procedure (unlinked)^ outpt serv date  ;formats for output into specific column blocks 42-48  N IBX,IBY,IBLN,IBN,IBMOD  D NEXTLN S IBY=""  ;set up rev cd item with appropriate output values, non-rev cd entries for old bills should already be in external form  S IBN=$P(IBZ,U,9) ;non-covered charges  S IBMOD=$P(IBZ,U,10) I IBMOD'="" S IBMOD=$E($TR(IBMOD,",;"),1,4) ; cpt modifiers  I +IBZ S IBX=$G(^DGCR(399.2,+IBZ,0)) Q:IBX="" D  . S IBY=$P(IBX,U,1)\_U\_$P(IBX,U,2)\_U\_$$PRCD^IBCEF1($P(IBZ,U,6)\_";ICPT(")\_IBMOD  . S IBY=IBY\_U\_$P(IBZ,U,2)\_U\_$P(IBZ,U,3)\_U\_$P(IBZ,U,4)\_U\_IBN\_U\_$P(IBZ,U,13)\_U\_$G(IBDA)\_U\_U\_$$DATE^IBCF2($P(IBZ,U,14),"",1)  I IBY="" S IBY=$P(IBZ,U,1)\_U\_$P(IBZ,U,2)\_U\_U\_U\_$P(IBZ,U,3)\_U\_$P(IBZ,U,4)\_U\_IBN\_U\_$P(IBZ,U,13)\_U\_$G(IBDA)\_U\_U\_$$DATE^IBCF2($P(IBZ,U,14),"",1)  S $P(IBY,U,20,22)=$P(IBZ,U,20,22) ;VD Add "NDC#", "Unit/Basis of Measure", and "Units/Qty" to IBY  S IBLN=+$G(^TMP($J,"IBC-RC"))+1,^TMP($J,"IBC-RC",IBLN)=1\_U\_IBY,^TMP($J,"IBC-RC")=IBLN I '(IBLN#22) S IBLINES=22  Q  ;  SET2 ;set free text into block 42 array  Q:$G(IBNOCOM) ;No comments wanted  N IBLN D NEXTLN S IBCOL=$S('IBCOL:2,1:3)  S IBLN=+$G(^TMP($J,"IBC-RC"))+1 I IBLN#22=1,$G(IBFILL) S IBFILL=2 Q  S ^TMP($J,"IBC-RC",IBLN)=IBCOL\_U\_IBZ,^TMP($J,"IBC-RC")=IBLN I '(IBLN#22) S IBLINES=22  Q  ;  FILLUP ; Fill block 42 with blank lines  N IBLN D NEXTLN S IBCOL=$S('IBCOL:2,1:3)  S IBLN=+$G(^TMP($J,"IBC-RC"))+1 I IBLN#22=1,$G(IBFILL) S IBFILL=2 Q  S ^TMP($J,"IBC-RC",IBLN)=IBCOL\_U\_IBZ,^TMP($J,"IBC-RC")=IBLN I '(IBLN#22) S IBLINES=22  Q  ;  NEXTLN ;checks counter for next line, resets if necessary,  ;ie. if the line # indicated by the next line # var. has already been used then this increments the next line # var.  S IBLN=+$G(^TMP($J,"IBC-RC"))+1 I $D(^TMP($J,"IBC-RC",IBLN)) S ^TMP($J,"IBC-RC")=IBLN S:'(IBLN#22) IBLINES=22 G NEXTLN  Q  ;  MOD(RCLN,IBIFN) ; return modifier(s) for a directly linked CPT charge or for an indirectly linked one  N IBCPTN,IBMOD  S IBMOD=""  I $P($G(RCLN),U,10)=4 S IBCPTN=+$P(RCLN,U,11) I +IBCPTN S IBMOD=$$GETMOD^IBEFUNC(IBIFN,IBCPTN,1) ;Linked  I IBMOD="",$P(RCLN,U,14)'="" S IBMOD=$TR($P(RCLN,U,14),";",",") ; Not linked or linked, but manually entered modifiers only  MODQ Q IBMOD  ;  DATE45(IBIFN,IBXDATA,IBDATE) ; What prints in the service date box of UB-04  ; INPUT:  ; IBIFN = ien of bill  ; IBDATE = the default outpt service date  ; OUTPUT:  ; IBXDATA = the output formatter array with the service dates  ; (pass by reference)  N Z,Z0,IBR,IBIN  S IBIN=$$INPAT^IBCEF(IBXIEN,1)  F Z=1:1 Q:'$D(^TMP($J,"IBC-RC",Z)) S IBR=^(Z) D  . S Z0=$S(+IBR=1&'IBIN&(+$P(IBR,U,2)'=1):$S($P(IBR,U,12):$P(IBR,U,12),1:$G(IBDATE)),+IBR=2:$E($P(IBR,U,2),46,52),1:$E($P(IBR,U,2),41,47))  . S:Z'>22 IBXDATA(Z)=Z0 D:Z>22 CKREV^IBCEF3(Z,Z0)  Q  ; | | | | | | | | | |

* The FORMAT CODE of FL-43 (in the IB FORM FIELD CONTENT file [#364.7], entry 1406) needs to be changed FROM:

COLUMN 6 REV CODE DESCRIPTION (FL-43) 364.6[1706] **364.7[1406]** 364.5[5]

Length=25

Max Lines=0

>Constant Value: ""

N Z,Z0,Z1 F Z=1:1 Q:'$D(^TMP($J,"IBC-RC",Z)) S Z1=^(Z),Z0=$S(+Z1=1:$E($P(Z1

,U,3),1,24),+Z1=2:$E($P(Z1,U,2),6,30),1:$E($P(Z1,U,2),1,25)) S:Z'>22 IBXDATA(Z)=

Z0 D:Z>22 CKREV^IBCEF3(Z,Z0)

Output from what File: BILL/CLAIMS// 364.7 IB FORM FIELD CONTENT (1664 entries)

Select IB FORM FIELD CONTENT FORM FIELD REFERENCE: **`1406** UB-04 N-GET FROM P

REVIOUS EXTRACT 1 19 6 REV CODE DESCRIPTION (FL-43)

Another one:

Standard Captioned Output? Yes// (Yes)

Include COMPUTED fields: (N/Y/R/B): NO//- No record number (IEN), no Computed Fields

FORM FIELD REFERENCE: UB-04 SECURITY LEVEL: NATIONAL,NO EDIT

DATA ELEMENT: N-GET FROM PREVIOUS EXTRACT

PAD CHARACTER: NO PAD REQUIRED

FORMAT CODE: N Z,Z0,Z1 F Z=1:1 Q:'$D(^TMP($J,"IBC-RC",Z)) S Z1=^(Z),Z0=$S(+Z1

=1:$E($P(Z1,U,3),1,24),+Z1=2:$E($P(Z1,U,2),6,30),1:$E($P(Z1,U,2),1,25)) S:Z'>22

IBXDATA(Z)=Z0 D:Z>22 CKREV^IBCEF3(Z,Z0)

FORMAT CODE DESCRIPTION: This data element is a group data element where

more than one occurrence might be expected. It relies on the presence of data

in array IBXSAVE("REV",n) extracted previously. The first '^' piece of the

array indicates whether this is a 'normal' service data line (=1) or a text

line (=2 or =3). For a normal service line, the data is found in the third

'^' piece of the array. For text line where the first piece = 2, the text is

assumed TO start in column 1, so the data is extracted from positions 6-30.

For text line where the first piece = 3, the text is assumed to start in

column 6, so the data for this field is extracted from positions 1-25. Since

only 22 lines of service line can appear on one form, if there are more than

22 lines, subsequent pages are forced for the remaining data lines after 22.

TO:

N Z,A,B,C F Z=1: Q:'$D(^TMP($J,"IBC-RC",Z)) S B=^(Z),C=$$B43^IBCEF77(B),

A=$S(+B=1:$S(C]"":C,1:$E($P(B,U,3),1,24)),+B=2:$S(C]"":C,1:$E($P(B,U,2),6,30)),

1:$S(C]"":C,1:$E($P(B,U,2),1,25))) S:Z'>22 IBXDATA(Z)=A D:Z>22 CKREV^IBCEF3(Z,A)

(NOTE: We are changing the variables Z0 and Z1 in the above FORMAT CODE, to A and B and also adding variable C. This needed to happen due to the length of the MUMPS command line. Also needed to create the new module of code “B43^IBCEF77”)

* The IBY577PR Pre-Install routine needs to be coded to include the INS-15, INS-16 and PRF-23 Output Formatter modifications mentioned above:

| **Routines** | **Activities** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | IBY577PR | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | None | | | | | | | | |
| **Related Routines** | **Routines “Called By”** | | | | | **Routines “Called”** | | | |
|  |  | | | | |  | | | |
| **Data Dictionary (DD) References** | IB DATA ELEMENT DEFINITION File [#364.7] | | | | | | | | |
| **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** | | | | | | | | | |
| N/A | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| IBY577PR ;ALB/VAD - Pre-Installation for IB patch 577 ;06-Apr-2017  ;;2.0;INTEGRATED BILLING;\*\*577\*\*;21-MAR-94;Build 52  ;  ; delete all output formatter (O.F.) data elements included in build  D DELOF  Q  ; INCLUDE(FILE,Y) ; function to determine if O.F. entry should be included in the build  ; FILE=5,6,7 indicating file 364.x  ; Y=ien to file  NEW OK,LN,TAG,DATA  S OK=0  F LN=2:1 S TAG="ENT"\_FILE\_"+"\_LN,DATA=$P($T(@TAG),";;",2) Q:DATA=""  I $F(DATA,U\_Y\_U) S OK=1 Q  Q OK  ;  ;Delete edited entries to insure clean install of new entries  ;Delete obsolete entries. DELOF   ; Delete included OF entries  NEW FILE,DIK,LN,TAG,TAGLN,DATA,PCE,DA,Y  F FILE=5,6,7 S DIK="^IBA(364."\_FILE\_"," D  . F TAG="ENT"\_FILE,"DEL"\_FILE D  .. F LN=2:1 S TAGLN=TAG\_"+"\_LN,DATA=$P($T(@TAGLN),";;",2) Q:DATA=""  D  ... F PCE=2:1 S DA=$P(DATA,U,PCE) Q:'DA  I $D(^IBA("364."\_FILE,DA,0)) D ^DIK  Q  ;  ; Example for ENT5, ENT6, ENT7, DEL5, DEL6, and DEL7:  ;;^195^254^259^269^324^325^  ; Note: Must have beginning and ending up-carat  ;  ;-----------------------------------------------------------------------  ; 364.5 entries modified:  ; ENT5 ; OF entries in file 364.5 to be included  ;  ;;  ;  ;-----------------------------------------------------------------------  ; 364.6 entries modified:  ; ENT6 ; O.F. entries in file 364.6 to be included  ;  ;;  ;  ;-----------------------------------------------------------------------  ; 364.7 entries modified:  ;   ; 1406 - INS.15   ; ENT7 ; O.F. entries in file 364.7 to be included  ;  ;;^1406^  ;  ;-----------------------------------------------------------------------  ; 364.5 entries deleted:  ; DEL5    ; remove O.F. entries in file 364.5 (not re-added)  ;  ;;  ;  ;-----------------------------------------------------------------------  ; 364.6 entries deleted:  ;  ; DEL6    ; remove O.F. entries in file 364.6 (not re-added)  ;  ;;  ;  ;-----------------------------------------------------------------------  ; 364.7 entries deleted:  ;  ; DEL7    ; remove O.F. entries in file 364.7 (not re-added)  ;  ;;  ;  ;-----------------------------------------------------------------------  ; | | | | | | | | | |

* In order to remove the NDC and quantity from FL-80 of the UB-04, the following changes need to be made to routine ^IBCEF77:

| **Routines** | **Activities** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | IBCEF77 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** |  | | | | | | | | |
| **Related Options** | None | | | | | | | | |
| **Related Routines** | **Routines “Called By”** | | | | | **Routines “Called”** | | | |
|  |  | | | | |  | | | |
| **Data Dictionary (DD) References** | “NDC Number” field [#399.0304, 53]  “Quantity” field [#399.0304, 54] | | | | | | | | |
| **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** | | | | | | | | | |
| IBCEF77 ;WOIFO/SS - FORMATTER/EXTRACT BILL FUNCTIONS ;31-JUL-03  ;;2.0;INTEGRATED BILLING;\*\*232,280,155,290,291,320,348,349,516\*\*;21-MAR-94;Build 123  ;;Per VA Directive 6402, this routine should not be modified.  ;  …  REMARK(IBIFN,IBXDATA,OFLG) ; procedure to return array of UB-04 remark text  ; for claim IBIFN. Data pulled from field# 402 of file 399 and  ; formatted into an array IBXDATA(n) where each line is not greater  ; than 24 characters long. This will fit into UB-04 FL-80.  ;  ; OFLG=1 only when called in the output formatter. In this case, only  ; 4 lines in IBXDATA will be returned.  ;  NEW TEXT,LEN,IBZ,J,PCE,CHS,NEWCHS,IBK,J,TX,IBCP1  K IBXDATA  ;  ; MRD;IB\*2.0\*516 - Pull the Bill Remarks for the claim. If this was  ; called from the Output Formatter, then look at lines of claim for  ; NDC's. If any are found, they should be added to the end of TEXT.  ;  S TEXT=$P($G(^DGCR(399,+$G(IBIFN),"UF2")),U,3)  I $G(OFLG) D  . S J=0  . F S J=$O(^DGCR(399,+$G(IBIFN),"CP",J)) Q:'J S IBCP1=$G(^(J,1)) I $P(IBCP1,U,7)'="" D  . . I TEXT'="" S TEXT=TEXT\_" "  . . S TEXT=TEXT\_"N4"\_$TR($P(IBCP1,U,7),"-")\_" UN"\_$P(IBCP1,U,8)  . . Q  . Q  ;  ; If there's nothing in TEXT, then Quit.  ;  I TEXT="" Q  ;  ; need to break up large words for word wrapping purposes to get  ; as many characters as possible in the box.  S LEN=17  F PCE=1:1 Q:PCE>$L(TEXT," ") S CHS=$P(TEXT," ",PCE) I $L(CHS)>LEN D  . S NEWCHS=$E(CHS,1,LEN)\_" "\_$E(CHS,LEN+1,999)  . S $P(TEXT," ",PCE)=NEWCHS  . Q  ;  ; When calling FSTRNG^IBJU1 which calls ^DIWP, FileMan builds the  ; array with strings of max length=1 less than what you tell it.  ;  S LEN=20 ; line 1 is 19 chars  D FSTRNG^IBJU1(TEXT,LEN,.IBZ) ; build IBZ array  S IBK=$$TRIM^XLFSTR($G(IBZ(1))) ; save off the first line  S TEXT=$P(TEXT,IBK,2,99) ; restore the rest of the text  S TEXT=$$TRIM^XLFSTR(TEXT) ; trim spaces  ;  S LEN=25 ; the rest is 24 chars  D FSTRNG^IBJU1(TEXT,LEN,.IBZ) ; build IBZ array  S IBXDATA(1)=" "\_IBK ; line 1  S J=0 F S J=$O(IBZ(J)) Q:'J D ; lines 2-n  . I J>3,$G(OFLG) Q ; only 4 lines for output formatter  . S TX=$$TRIM^XLFSTR($G(IBZ(J)))  . I TX'="" S IBXDATA(J+1)=TX  . Q  Q  ; | | | | | | | | | |
| **Modified Logic (Changes are highlighted in yellow)** | | | | | | | | | |
| IBCEF77 ;WOIFO/SS - FORMATTER/EXTRACT BILL FUNCTIONS ;31-JUL-03  ;;2.0;INTEGRATED BILLING;\*\*232,280,155,290,291,320,348,349,516,577\*\*;21-MAR-94;Build 123  ;;Per VA Directive 6402, this routine should not be modified.  ;  …  REMARK(IBIFN,IBXDATA,OFLG) ; procedure to return array of UB-04 remark text  ; for claim IBIFN. Data pulled from field# 402 of file 399 and  ; formatted into an array IBXDATA(n) where each line is not greater  ; than 24 characters long. This will fit into UB-04 FL-80.  ;  ; OFLG=1 only when called in the output formatter. In this case, only  ; 4 lines in IBXDATA will be returned.  ;  NEW TEXT,LEN,IBZ,J,PCE,CHS,NEWCHS,IBK,J,TX,IBCP1  K IBXDATA  ;  ; MRD;IB\*2.0\*516 - Pull the Bill Remarks for the claim. If this was  ; called from the Output Formatter, then look at lines of claim for  ; NDC's. If any are found, they should be added to the end of TEXT.  ;  S TEXT=$P($G(^DGCR(399,+$G(IBIFN),"UF2")),U,3)  ;  ;VD;IB\*2.0\*577; Begin changes  ; NDC, Quantity, and Unit of Measure now printed in FL-43  ; instead of here in FL-80  ;I $G(OFLG) D  ;. S J=0  ;. F S J=$O(^DGCR(399,+$G(IBIFN),"CP",J)) Q:'J S IBCP1=$G(^(J,1)) I $P(IBCP1,U,7)'="" D  ;. . I TEXT'="" S TEXT=TEXT\_" "  ;. . S TEXT=TEXT\_"N4"\_$TR($P(IBCP1,U,7),"-")\_" UN"\_$P(IBCP1,U,8)  ;. . Q  ;. Q  ; ;VD;IB\*2.0\*577;End Changes  ; If there's nothing in TEXT, then Quit.  ;  I TEXT="" Q  ;  ; need to break up large words for word wrapping purposes to get  ; as many characters as possible in the box.  S LEN=17  F PCE=1:1 Q:PCE>$L(TEXT," ") S CHS=$P(TEXT," ",PCE) I $L(CHS)>LEN D  . S NEWCHS=$E(CHS,1,LEN)\_" "\_$E(CHS,LEN+1,999)  . S $P(TEXT," ",PCE)=NEWCHS  . Q  ;  ; When calling FSTRNG^IBJU1 which calls ^DIWP, FileMan builds the  ; array with strings of max length=1 less than what you tell it.  ;  S LEN=20 ; line 1 is 19 chars  D FSTRNG^IBJU1(TEXT,LEN,.IBZ) ; build IBZ array  S IBK=$$TRIM^XLFSTR($G(IBZ(1))) ; save off the first line  S TEXT=$P(TEXT,IBK,2,99) ; restore the rest of the text  S TEXT=$$TRIM^XLFSTR(TEXT) ; trim spaces  ;  S LEN=25 ; the rest is 24 chars  D FSTRNG^IBJU1(TEXT,LEN,.IBZ) ; build IBZ array  S IBXDATA(1)=" "\_IBK ; line 1  S J=0 F S J=$O(IBZ(J)) Q:'J D ; lines 2-n  . I J>3,$G(OFLG) Q ; only 4 lines for output formatter  . S TX=$$TRIM^XLFSTR($G(IBZ(J)))  . I TX'="" S IBXDATA(J+1)=TX  . Q  Q  ; B43(NDCDATA) ; This is passed a string and properly formats if there is NDC drug information.  ; The drug information is in pieces 21-23 of that string.  ; It was part of the output formatter entry 364.7[1406] used for FL43 but that  ; It returns a string with N4 - the NDC Drug qualifier  ; NDC Code without the hyphens  ; a space  ; Units qualifier  ; Units  ; Ex "N412345678901 ML1.5"  I NDCDATA="" Q ""  S NDCDATA=$P(NDCDATA,U,21,23)  Q:$P(NDCDATA,U)="" ""  Q "N4"\_$TR($P(NDCDATA,U),"-")\_" "\_$TR($P(NDCDATA,U,2,3),U)  ; | | | | | | | | | |