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Imports Edidev.FrameworkEDI

Public Class Form1

    Private Sub btnTranslate_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles    ↙
    btnTranslate.Click
        Dim oEdiDoc As ediDocument
        Dim oSchemas As ediSchemas
        Dim oSegment As ediDataSegment
        Dim sSegmentID As String
        Dim sLoopSection As String
        Dim nArea As Integer
        Dim sValue As String
        Dim sN1Qlfr As String = ""
        Dim sQlfr As String = ""
        Dim sNm1Qlfr As String = ""

        Dim sPath As String = AppDomain.CurrentDomain.BaseDirectory
        Dim sEdiFile As String = "834_5010X220A1.X12"
        Dim sSefFile As String = "834_005010X220A1.SemRef.EVAL0.SEF"     'evaluation SEF file


        'CREATES EDIDOC OBJECT
        oEdiDoc = New ediDocument()

        'THIS MAKES CERTAIN THAT FREDI ONLY USES THE SEF FILE PROVIDED, AND THAT IT DOES
        'NOT USE ITS BUILT-IN STANDARD REFERENCE TABLE TO TRANSLATE THE EDI FILE.
        oSchemas = oEdiDoc.GetSchemas
        oSchemas.EnableStandardReference = False

        'THIS OPTIONS STOPS FREDI FROM KEEPING ALL THE SEGMENTS IN MEMORY
        oEdiDoc.CursorType = DocumentCursorTypeConstants.Cursor_ForwardOnly

        'LOADS THE SEF FILE
        oEdiDoc.LoadSchema(sPath + sSefFile, 0)

        'LOADS THE EDI FILE
        oEdiDoc.LoadEdi(sPath + sEdiFile)

        'GETS THE FIRST DATA SEGMENT
        oSegment = oEdiDoc.FirstDataSegment

        'LOOP THAT WILL TRAVERSE THRU EDI FILE FROM TOP TO BOTTOM
        Do While Not oSegment Is Nothing

            'DATA SEGMENTS WILL BE IDENTIFIED BY THEIR ID, THE LOOP SECTION AND AREA
            '(OR TABLE) NUMBER THAT THEY ARE IN.
            sSegmentID = oSegment.ID
            sLoopSection = oSegment.LoopSection
            nArea = oSegment.Area

            If nArea = 0 Then
                If sLoopSection = "" Then
                    If sSegmentID = "ISA" Then
                        sValue = oSegment.DataElementValue(1)      'Authorization Information Qualifier
                        sValue = oSegment.DataElementValue(2)      'Authorization Information
                        sValue = oSegment.DataElementValue(3)      'Security Information Qualifier
                        sValue = oSegment.DataElementValue(4)      'Security Information
                        sValue = oSegment.DataElementValue(5)      'Interchange ID Qualifier
                        sValue = oSegment.DataElementValue(6)      'Interchange Sender ID
                        sValue = oSegment.DataElementValue(7)      'Interchange ID Qualifier
                        sValue = oSegment.DataElementValue(8)      'Interchange Receiver ID
                        sValue = oSegment.DataElementValue(9)      'Interchange Date
                        sValue = oSegment.DataElementValue(10)      'Interchange Time
                        sValue = oSegment.DataElementValue(11)      'Repetition Separator
                        sValue = oSegment.DataElementValue(12)      'Interchange Control Version Number
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                        ListBox1.Items.Add(oSegment.DataElementValue(13) + " = Interchange Control Number")
                        sValue = oSegment.DataElementValue(14)      'Acknowledgment Requested
                        sValue = oSegment.DataElementValue(15)      'Usage Indicator
                        sValue = oSegment.DataElementValue(16)      'Component Element Separator

                    ElseIf sSegmentID = "GS" Then
                        sValue = oSegment.DataElementValue(1)     'Functional Identifier Code
                        ListBox1.Items.Add(oSegment.DataElementValue(2) + " = Application Sender's Code")
                        ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Application Receiver's Code")
                        sValue = oSegment.DataElementValue(4)     'Date
                        sValue = oSegment.DataElementValue(5)     'Time
                        ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Group Control Number")
                        sValue = oSegment.DataElementValue(7)     'Responsible Agency Code
                        sValue = oSegment.DataElementValue(8)     'Version / Release / Industry Identifier ⤶
          Code
                    End If   'sSegmentID
                End If   'sLoopSection

            ElseIf nArea = 1 Then
                If sLoopSection = "" Then
                    If sSegmentID = "ST" Then
                        sValue = oSegment.DataElementValue(1)     'Transaction Set Identifier Code
                        ListBox1.Items.Add(oSegment.DataElementValue(2) + " = Transaction Set Control      ⤶
          Number")
                        ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Implementation Convention    ⤶
          Reference")

                    ElseIf sSegmentID = "BGN" Then
                        sValue = oSegment.DataElementValue(1)     'Transaction Set Purpose Code
                        ListBox1.Items.Add(oSegment.DataElementValue(2) + " = Transaction Set Reference    ⤶
          Number")
                        ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Transaction Set Creation Date⤶
          ")
                        sValue = oSegment.DataElementValue(4)     'Time
                        sValue = oSegment.DataElementValue(5)     'Time Code
                        sValue = oSegment.DataElementValue(6)     'Reference Identification
                        sValue = oSegment.DataElementValue(8)     'Action Code

                    ElseIf sSegmentID = "REF" Then      'Transaction Set Policy Number
                        sValue = oSegment.DataElementValue(1)      ' Reference Identification Qualifier   ⤶
          (128)
                        sValue = oSegment.DataElementValue(2)      ' Reference Identification (127)

                    ElseIf sSegmentID = "DTP" Then     'File Effective Date
                        sValue = oSegment.DataElementValue(1)      ' Date/Time Qualifier (374)
                        sValue = oSegment.DataElementValue(2)      ' Date Time Period Format Qualifier    ⤶
          (1250)
                        sValue = oSegment.DataElementValue(3)      ' Date Time Period (1251)

                    ElseIf sSegmentID = "QTY" Then     'Transaction Set Control Totals
                        sValue = oSegment.DataElementValue(1)      ' Quantity Qualifier (673)
                        sValue = oSegment.DataElementValue(2)      ' Quantity (380)
                    End If   'Segment ID

                ElseIf sLoopSection = "N1" And sSegmentID = "N1" Then
                    'If a loop has more than one instance, the qualifier is checked to differentiate the  ⤶
          loop instances.
                    sN1Qlfr = oSegment.DataElementValue(1)   'Entity Identifier Code
                End If   'sLoopSection

                If sN1Qlfr = "P5" Then   '1000A SPONSOR NAME
                    If sSegmentID = "N1" Then
                        sValue = oSegment.DataElementValue(1)     'Entity Identifier Code
                        sValue = oSegment.DataElementValue(2)     'Name
                        sValue = oSegment.DataElementValue(3)     'Identification Code Qualifier
                        ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Sponsor Identifier")
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                    End If    'sSegmentID

            ElseIf sN1Qlfr = "IN" Then   '1000B PAYER
                If sSegmentID = "N1" Then
                    sValue = oSegment.DataElementValue(1)      'Entity Identifier Code
                    sValue = oSegment.DataElementValue(2)      'Name
                    sValue = oSegment.DataElementValue(3)      'Identification Code Qualifier
                    ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Insurer Identification Code")
                End If    'sSegmentID

            ElseIf sN1Qlfr = "BO" Or sN1Qlfr = "TV" Then     '1000C TPA/BROKER NAME
                If sSegmentID = "N1" Then
                    sValue = oSegment.DataElementValue(1)      'Entity Identifier Code
                    sValue = oSegment.DataElementValue(2)      'Name
                    sValue = oSegment.DataElementValue(3)      'Identification Code Qualifier
                    sValue = oSegment.DataElementValue(4)      'Identification Code

                ElseIf sSegmentID = "ACT" Then      '1100C TPA/BROKER ACCOUNT INFORMATION
                    sValue = oSegment.DataElementValue(1)       ' Account Number (508)
                    sValue = oSegment.DataElementValue(6)       ' Account Number (508)
                End If    'sSegmentID
            End If

        ElseIf nArea = 2 Then
            If sLoopSection = "INS" Then     '2000 MEMBER LEVEL DETAIL
                If sSegmentID = "INS" Then
                    ListBox1.Items.Add(oSegment.DataElementValue(1) + " = Subscriber Indicator")
                    ListBox1.Items.Add(oSegment.DataElementValue(2) + " = Individual Relationship Code"↙
)
                    sValue = oSegment.DataElementValue(3)        ' Maintenance Type Code (875)
                    sValue = oSegment.DataElementValue(4)        ' Maintenance Reason Code (1203)
                    sValue = oSegment.DataElementValue(5)        ' Benefit Status Code (1216)
                    sValue = oSegment.DataElementValue(6, 1)       ' Medicare Plan Code (1218)
                    sValue = oSegment.DataElementValue(6, 2)       ' Eligibility Reason Code (1701)
                    sValue = oSegment.DataElementValue(6, 3)       ' Eligibility Reason Code (1701)
                    sValue = oSegment.DataElementValue(6, 4)       ' Eligibility Reason Code (1701)
                    sValue = oSegment.DataElementValue(7)        ' Consolidated Omnibus Budget        ↙
Reconciliation Act (COBRA) Qualify (1219)
                    sValue = oSegment.DataElementValue(8)        ' Employment Status Code (584)
                    sValue = oSegment.DataElementValue(9)        ' Student Status Code (1220)
                    sValue = oSegment.DataElementValue(10)       ' Yes/No Condition or Response Code   ↙
(1073)
                    sValue = oSegment.DataElementValue(11)       ' Date Time Period Format Qualifier    ↙
(1250)
                    sValue = oSegment.DataElementValue(12)       ' Date Time Period (1251)
                    sValue = oSegment.DataElementValue(13)       ' Confidentiality Code (1165)
                    sValue = oSegment.DataElementValue(17)       ' Number (1470)

                ElseIf sSegmentID = "REF" Then
                    sQlfr = oSegment.DataElementValue(1)      'Reference Identification Qualifier

                    If sQlfr = "0F" Then    'Subscriber Identifier
                        ListBox1.Items.Add(oSegment.DataElementValue(2) + " = Subscriber Identifier")

                    ElseIf sQlfr = "1L" Then     'Member Policy Number
                        ListBox1.Items.Add(oSegment.DataElementValue(2) + " = Member Group or Policy    ↙
Number")

                    ElseIf (sQlfr = "17" Or sQlfr = "23" Or sQlfr = "3H" Or sQlfr = "4A" Or sQlfr = "60↙
" Or sQlfr = "ABB" Or sQlfr = "D3" Or sQlfr = "DX" Or sQlfr = "F6" Or sQlfr = "P5" Or sQlfr = "Q4" Or  ↙
sQlfr = "QQ" Or sQlfr = "ZZ") Then 'Member Supplemental Identifier
                        sValue = oSegment.DataElementValue(2)       ' Reference Identification (127)
                    End If

                ElseIf sSegmentID = "DTP" Then   'Member Level Dates
                    sQlfr = oSegment.DataElementValue(1)       'Date/Time Qualifier
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                        If sQlfr = "356" Then
                            sValue = oSegment.DataElementValue(2)     'Date Time Period Format Qualifier
                            ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Eligibility Begin")
                        ElseIf sQlfr = "357" Then
                            sValue = oSegment.DataElementValue(2)     'Date Time Period Format Qualifier
                            ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Eligibility Ends")
                        Else
                            sValue = oSegment.DataElementValue(2)     'Date Time Period Format Qualifier
                            ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Status Information       ↙
Effective Date")
                        End If
                    End If    'Segment ID

            ElseIf sLoopSection = "INS;NM1" Then
                If sSegmentID = "NM1" Then
                    sNm1Qlfr = oSegment.DataElementValue(1)    'Entity Identifier Code
                End If

                If sNm1Qlfr = "74" Or sNm1Qlfr = "IL" Then '2100A MEMBER NAME
                    If sSegmentID = "NM1" Then        'Member Name
                        If sNm1Qlfr = "74" Then
                            sValue = oSegment.DataElementValue(2)        ' Entity Type Qualifier (1065)
                            sValue = oSegment.DataElementValue(3)        ' Name Last or Organization    ↙
Name (1035)
                            sValue = oSegment.DataElementValue(4)        ' Name First (1036)
                            sValue = oSegment.DataElementValue(5)        ' Name Middle (1037)
                            sValue = oSegment.DataElementValue(6)        ' Name Prefix (1038)
                            sValue = oSegment.DataElementValue(7)        ' Name Suffix (1039)
                            sValue = oSegment.DataElementValue(8)        ' Identification Code Qualifier ↙
 (66)
                            sValue = oSegment.DataElementValue(9)        ' Identification Code (67)

                        ElseIf sNm1Qlfr = "IL" Then
                            sValue = oSegment.DataElementValue(2)        ' Entity Type Qualifier (1065)
                            ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Insured or Subscriber ↙
 Last Name")

                            ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Insured or Subscriber ↙
 First Name")
                            sValue = oSegment.DataElementValue(5)        ' Name Middle (1037)
                            sValue = oSegment.DataElementValue(6)        ' Name Prefix (1038)
                            sValue = oSegment.DataElementValue(7)        ' Name Suffix (1039)
                            sQlfr = oSegment.DataElementValue(8)        ' Identification Code Qualifier ↙
 (66)
                            If sQlfr = "34" Then
                                ListBox1.Items.Add(oSegment.DataElementValue(9) + " = Insured or        ↙
Subscriber Social Security Number")
                            ElseIf sQlfr = "ZZ" Then
                                ListBox1.Items.Add(oSegment.DataElementValue(9) + " = Insured or        ↙
Subscriber Mutually Defined Number")
                            End If
                        End If

                    ElseIf sSegmentID = "PER" Then        'Member Communications Numbers
                        sValue = oSegment.DataElementValue(1)        ' Contact Function Code (366)
                        sValue = oSegment.DataElementValue(2)        ' Name (93)
                        sQlfr = oSegment.DataElementValue(3)        ' Communication Number Qualifier    ↙
 (365)

                        If sQlfr = "HP" Then
                            ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Home Phone Number")
                        ElseIf sQlfr = "WP" Then
                            ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Work Phone Number")
                        ElseIf sQlfr = "CP" Then
                            ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Cell Phone Number")
                        ElseIf sQlfr = "FX" Then
                            ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Fax Phone Number")
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                                ElseIf sQlfr = "TE" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Telephone Phone         ↙
    Number")
                                ElseIf sQlfr = "WP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Work Phone Number")
                                ElseIf sQlfr = "EM" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(4) + " = Email")
                                End If

                                sQlfr = oSegment.DataElementValue(5)        ' Communication Number Qualifier      ↙
    (365)
                                If sQlfr = "HP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Home Phone Number")
                                ElseIf sQlfr = "WP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Work Phone Number")
                                ElseIf sQlfr = "CP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Cell Phone Number")
                                ElseIf sQlfr = "FX" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Fax Phone Number")
                                ElseIf sQlfr = "TE" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Telephone Phone         ↙
    Number")
                                ElseIf sQlfr = "WP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Work Phone Number")
                                ElseIf sQlfr = "EM" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(6) + " = Email")
                                End If

                                sQlfr = oSegment.DataElementValue(7)        ' Communication Number Qualifier      ↙
    (365)
                                If sQlfr = "HP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(8) + " = Home Phone Number")
                                ElseIf sQlfr = "WP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(8) + " = Work Phone Number")
                                ElseIf sQlfr = "CP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(8) + " = Cell Phone Number")
                                ElseIf sQlfr = "FX" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(8) + " = Fax Phone Number")
                                ElseIf sQlfr = "TE" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(8) + " = Telephone Phone         ↙
    Number")
                                ElseIf sQlfr = "WP" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(8) + " = Work Phone Number")
                                ElseIf sQlfr = "EM" Then
                                    ListBox1.Items.Add(oSegment.DataElementValue(8) + " = Email")
                                End If

                        ElseIf sSegmentID = "N3" Then        'Member Residence Street Address
                            ListBox1.Items.Add(oSegment.DataElementValue(1) + " = Insured or Subscriber         ↙
        Address Information")
                                sValue = oSegment.DataElementValue(2)        ' Address Information (166)

                        ElseIf sSegmentID = "N4" Then        'Member City, State, ZIP Code
                            ListBox1.Items.Add(oSegment.DataElementValue(1) + " = Insured or Subscriber         ↙
        City Name")
                                sValue = oSegment.DataElementValue(2)        ' State or Province Code (156)
                                sValue = oSegment.DataElementValue(3)        ' Postal Code (116)
                                sValue = oSegment.DataElementValue(4)        ' Country Code (26)
                                sValue = oSegment.DataElementValue(5)        ' Location Qualifier (309)
                                sValue = oSegment.DataElementValue(6)        ' Location Identifier (310)
                                sValue = oSegment.DataElementValue(7)        ' Country Subdivision Code (1715)

                        ElseIf sSegmentID = "DMG" Then        'Member Demographics
                                sValue = oSegment.DataElementValue(1)        ' Date Time Period Format Qualifier ↙
         (1250)
                            ListBox1.Items.Add(oSegment.DataElementValue(2) + " = Insured or Subscriber         ↙
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     Birth Date")
                             ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Insured or Subscriber      ↵
     Gender Code")
                             sValue = oSegment.DataElementValue(4)          ' Marital Status Code (1067)
                             sValue = oSegment.DataElementValue(5, 1)           ' Race or Ethnicity Code (1109) ↵

                             sValue = oSegment.DataElementValue(5, 2)            ' Code List Qualifier Code      ↵
     (1270)
                             sValue = oSegment.DataElementValue(5, 3)            ' Industry Code (1271)
                             sValue = oSegment.DataElementValue(6)          ' Citizenship Status Code (1066)
                             sValue = oSegment.DataElementValue(10)         ' Code List Qualifier Code (1270)
                             sValue = oSegment.DataElementValue(11)         ' Industry Code (1271)

                     ElseIf sSegmentID = "EC" Then          'Employment Class
                         sValue = oSegment.DataElementValue(1)          ' Employment Class Code (1176)
                         sValue = oSegment.DataElementValue(2)          ' Employment Class Code (1176)
                         sValue = oSegment.DataElementValue(3)          ' Employment Class Code (1176)

                     ElseIf sSegmentID = "ICM" Then         'Member Income
                         sValue = oSegment.DataElementValue(1)          ' Frequency Code (594)
                         sValue = oSegment.DataElementValue(2)          ' Monetary Amount (782)
                         sValue = oSegment.DataElementValue(3)          ' Quantity (380)
                         sValue = oSegment.DataElementValue(4)          ' Location Identifier (310)
                         sValue = oSegment.DataElementValue(5)          ' Salary Grade (1214)

                     ElseIf sSegmentID = "AMT" Then         'Member Policy Amounts
                         sValue = oSegment.DataElementValue(1)          ' Amount Qualifier Code (522)
                         sValue = oSegment.DataElementValue(2)          ' Monetary Amount (782)

                     ElseIf sSegmentID = "HLH" Then         'Member Health Information
                         sValue = oSegment.DataElementValue(1)          ' Health-Related Code (1212)
                         sValue = oSegment.DataElementValue(2)          ' Height (65)
                         sValue = oSegment.DataElementValue(3)          ' Weight (81)

                     ElseIf sSegmentID = "LUI" Then         'Member Language
                         sValue = oSegment.DataElementValue(1)           ' Identification Code Qualifier      ↵
     (66)
                         sValue = oSegment.DataElementValue(2)          ' Identification Code (67)
                         sValue = oSegment.DataElementValue(3)          ' Description (352)
                         sValue = oSegment.DataElementValue(4)          ' Use of Language Indicator (1303)
                     End If        ' sSegmentID = "LUI"

                 ElseIf sNm1Qlfr = "70" Then '2100B INCORRECT MEMBER NAME
                     If sSegmentID = "NM1" Then        'Incorrect Member Name
                         sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                         sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
                         sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name      ↵
     (1035)
                         sValue = oSegment.DataElementValue(4)          ' Name First (1036)
                         sValue = oSegment.DataElementValue(5)          ' Name Middle (1037)
                         sValue = oSegment.DataElementValue(6)          ' Name Prefix (1038)
                         sValue = oSegment.DataElementValue(7)          ' Name Suffix (1039)
                         sValue = oSegment.DataElementValue(8)          ' Identification Code Qualifier      ↵
     (66)
                         sValue = oSegment.DataElementValue(9)          ' Identification Code (67)

                     ElseIf sSegmentID = "DMG" Then         'Incorrect Member Demographics
                         sValue = oSegment.DataElementValue(1)           ' Date Time Period Format Qualifier ↵
      (1250)
                         sValue = oSegment.DataElementValue(2)          ' Date Time Period (1251)
                         sValue = oSegment.DataElementValue(3)          ' Gender Code (1068)
                         sValue = oSegment.DataElementValue(4)          ' Marital Status Code (1067)
                         sValue = oSegment.DataElementValue(5, 1)           ' Race or Ethnicity Code (1109) ↵

                         sValue = oSegment.DataElementValue(5, 2)            ' Code List Qualifier Code      ↵
     (1270)
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                            sValue = oSegment.DataElementValue(5, 3)          ' Industry Code (1271)
                            sValue = oSegment.DataElementValue(6)          ' Citizenship Status Code (1066)
                            sValue = oSegment.DataElementValue(10)         ' Code List Qualifier Code (1270)
                            sValue = oSegment.DataElementValue(11)         ' Industry Code (1271)
                        End If        ' sSegmentID = "DMG"

                    ElseIf sNm1Qlfr = "31" Then '2100C MEMBER MAILING ADDRESS
                        If sSegmentID = "NM1" Then        'Member Mailing Address
                            sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                            sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)

                        ElseIf sSegmentID = "N3" Then         'Member Mail Street Address
                            sValue = oSegment.DataElementValue(1)          ' Address Information (166)
                            sValue = oSegment.DataElementValue(2)          ' Address Information (166)

                        ElseIf sSegmentID = "N4" Then         'Member Mail City, State, ZIP Code
                            sValue = oSegment.DataElementValue(1)          ' City Name (19)
                            sValue = oSegment.DataElementValue(2)          ' State or Province Code (156)
                            sValue = oSegment.DataElementValue(3)          ' Postal Code (116)
                            sValue = oSegment.DataElementValue(4)          ' Country Code (26)
                            sValue = oSegment.DataElementValue(7)          ' Country Subdivision Code (1715)
                        End If        ' sSegmentID = "N4"

                    ElseIf sNm1Qlfr = "36" Then '2100D MEMBER EMPLOYER
                        If sSegmentID = "NM1" Then        'Member Employer
                            sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                            sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
                            sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name  ↙
            (1035)
                            sValue = oSegment.DataElementValue(4)          ' Name First (1036)
                            sValue = oSegment.DataElementValue(5)          ' Name Middle (1037)
                            sValue = oSegment.DataElementValue(6)          ' Name Prefix (1038)
                            sValue = oSegment.DataElementValue(7)          ' Name Suffix (1039)
                            sValue = oSegment.DataElementValue(8)          ' Identification Code Qualifier  ↙
            (66)
                            sValue = oSegment.DataElementValue(9)          ' Identification Code (67)

                        ElseIf sSegmentID = "PER" Then        'Member Employer Communications Numbers
                            sValue = oSegment.DataElementValue(1)          ' Contact Function Code (366)
                            sValue = oSegment.DataElementValue(2)          ' Name (93)
                            sValue = oSegment.DataElementValue(3)          ' Communication Number Qualifier  ↙
            (365)
                            sValue = oSegment.DataElementValue(4)          ' Communication Number (364)
                            sValue = oSegment.DataElementValue(5)          ' Communication Number Qualifier  ↙
            (365)
                            sValue = oSegment.DataElementValue(6)          ' Communication Number (364)
                            sValue = oSegment.DataElementValue(7)          ' Communication Number Qualifier  ↙
            (365)
                            sValue = oSegment.DataElementValue(8)          ' Communication Number (364)

                        ElseIf sSegmentID = "N3" Then         ' Address Information
                            sValue = oSegment.DataElementValue(1)          ' Address Information (166)
                            sValue = oSegment.DataElementValue(2)          ' Address Information (166)

                        ElseIf sSegmentID = "N4" Then         ' Geographic Location
                            sValue = oSegment.DataElementValue(1)          ' City Name (19)
                            sValue = oSegment.DataElementValue(2)          ' State or Province Code (156)
                            sValue = oSegment.DataElementValue(3)          ' Postal Code (116)
                            sValue = oSegment.DataElementValue(4)          ' Country Code (26)
                            sValue = oSegment.DataElementValue(7)          ' Country Subdivision Code (1715)
                        End If        ' sSegmentID = "N4"

                    ElseIf sNm1Qlfr = "M8" Then '2100E MEMBER SCHOOL
                        If sSegmentID = "NM1" Then        'Member School
                            sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                            sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
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                        sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name  ↙
    (1035)

                    ElseIf sSegmentID = "PER" Then        'Member School Commmunications Numbers
                        sValue = oSegment.DataElementValue(1)          ' Contact Function Code (366)
                        sValue = oSegment.DataElementValue(2)          ' Name (93)
                        sValue = oSegment.DataElementValue(3)          ' Communication Number Qualifier  ↙
    (365)
                        sValue = oSegment.DataElementValue(4)          ' Communication Number (364)
                        sValue = oSegment.DataElementValue(5)          ' Communication Number Qualifier  ↙
    (365)
                        sValue = oSegment.DataElementValue(6)          ' Communication Number (364)
                        sValue = oSegment.DataElementValue(7)          ' Communication Number Qualifier  ↙
    (365)
                        sValue = oSegment.DataElementValue(8)          ' Communication Number (364)

                    ElseIf sSegmentID = "N3" Then        ' Address Information
                        sValue = oSegment.DataElementValue(1)          ' Address Information (166)
                        sValue = oSegment.DataElementValue(2)          ' Address Information (166)

                    ElseIf sSegmentID = "N4" Then         ' Geographic Location
                        sValue = oSegment.DataElementValue(1)          ' City Name (19)
                        sValue = oSegment.DataElementValue(2)          ' State or Province Code (156)
                        sValue = oSegment.DataElementValue(3)          ' Postal Code (116)
                        sValue = oSegment.DataElementValue(4)          ' Country Code (26)
                        sValue = oSegment.DataElementValue(7)          ' Country Subdivision Code (1715)
                    End If       ' sSegmentID = "N4"

                ElseIf sNm1Qlfr = "S3" Then '2100F CUSTODIAL PARENT
                    If sSegmentID = "NM1" Then        'Custodial Parent
                        sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                        sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
                        sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name  ↙
    (1035)
                        sValue = oSegment.DataElementValue(4)          ' Name First (1036)
                        sValue = oSegment.DataElementValue(5)          ' Name Middle (1037)
                        sValue = oSegment.DataElementValue(6)          ' Name Prefix (1038)
                        sValue = oSegment.DataElementValue(7)          ' Name Suffix (1039)
                        sValue = oSegment.DataElementValue(8)          ' Identification Code Qualifier  ↙
    (66)
                        sValue = oSegment.DataElementValue(9)          ' Identification Code (67)

                    ElseIf sSegmentID = "PER" Then        'Custodial Parent Communications Numbers
                        sValue = oSegment.DataElementValue(1)          ' Contact Function Code (366)
                        sValue = oSegment.DataElementValue(2)          ' Name (93)
                        sValue = oSegment.DataElementValue(3)          ' Communication Number Qualifier  ↙
    (365)
                        sValue = oSegment.DataElementValue(4)          ' Communication Number (364)
                        sValue = oSegment.DataElementValue(5)          ' Communication Number Qualifier  ↙
    (365)
                        sValue = oSegment.DataElementValue(6)          ' Communication Number (364)
                        sValue = oSegment.DataElementValue(7)          ' Communication Number Qualifier  ↙
    (365)
                        sValue = oSegment.DataElementValue(8)          ' Communication Number (364)

                    ElseIf sSegmentID = "N3" Then         ' Address Information
                        sValue = oSegment.DataElementValue(1)          ' Address Information (166)
                        sValue = oSegment.DataElementValue(2)          ' Address Information (166)

                    ElseIf sSegmentID = "N4" Then         ' Geographic Location
                        sValue = oSegment.DataElementValue(1)          ' City Name (19)
                        sValue = oSegment.DataElementValue(2)          ' State or Province Code (156)
                        sValue = oSegment.DataElementValue(3)          ' Postal Code (116)
                        sValue = oSegment.DataElementValue(4)          ' Country Code (26)
                        sValue = oSegment.DataElementValue(7)          ' Country Subdivision Code (1715)
                    End If       ' sSegmentID = "N4"
```

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                    ElseIf sNm1Qlfr = "6Y" Or sNm1Qlfr = "9K" Or sNm1Qlfr = "E1" Or sNm1Qlfr = "EI" Or      ↙
        sNm1Qlfr = "EXS" Or sNm1Qlfr = "GB" Or sNm1Qlfr = "GD" Or sNm1Qlfr = "J6" Or sNm1Qlfr = "LR" Or      ↙
        sNm1Qlfr = "QD" Or sNm1Qlfr = "S1" Or sNm1Qlfr = "TZ" Or sNm1Qlfr = "X4" Then      '2100G RESPONSIBLE  ↙
        PERSON
                        If sSegmentID = "NM1" Then        'Responsible Person
                            sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                            sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
                            sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name   ↙
        (1035)
                            sValue = oSegment.DataElementValue(4)          ' Name First (1036)
                            sValue = oSegment.DataElementValue(5)          ' Name Middle (1037)
                            sValue = oSegment.DataElementValue(6)          ' Name Prefix (1038)
                            sValue = oSegment.DataElementValue(7)          ' Name Suffix (1039)
                            sValue = oSegment.DataElementValue(8)          ' Identification Code Qualifier   ↙
        (66)
                            sValue = oSegment.DataElementValue(9)          ' Identification Code (67)

                        ElseIf sSegmentID = "PER" Then        'Responsible Person Communications Numbers
                            sValue = oSegment.DataElementValue(1)          ' Contact Function Code (366)
                            sValue = oSegment.DataElementValue(2)          ' Name (93)
                            sValue = oSegment.DataElementValue(3)          ' Communication Number Qualifier   ↙
        (365)
                            sValue = oSegment.DataElementValue(4)          ' Communication Number (364)
                            sValue = oSegment.DataElementValue(5)          ' Communication Number Qualifier   ↙
        (365)
                            sValue = oSegment.DataElementValue(6)          ' Communication Number (364)
                            sValue = oSegment.DataElementValue(7)          ' Communication Number Qualifier   ↙
        (365)
                            sValue = oSegment.DataElementValue(8)          ' Communication Number (364)

                        ElseIf sSegmentID = "N3" Then        ' Address Information
                            sValue = oSegment.DataElementValue(1)          ' Address Information (166)
                            sValue = oSegment.DataElementValue(2)          ' Address Information (166)

                        ElseIf sSegmentID = "N4" Then        ' Geographic Location
                            sValue = oSegment.DataElementValue(1)          ' City Name (19)
                            sValue = oSegment.DataElementValue(2)          ' State or Province Code (156)
                            sValue = oSegment.DataElementValue(3)          ' Postal Code (116)
                            sValue = oSegment.DataElementValue(4)          ' Country Code (26)
                            sValue = oSegment.DataElementValue(7)          ' Country Subdivision Code (1715)
                        End If        ' sSegmentID = "N4"

                    ElseIf sNm1Qlfr = "45" Then '2100H DROP OFF LOCATION
                        If sSegmentID = "NM1" Then        'Drop Off Location
                            sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                            sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
                            sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name   ↙
        (1035)
                            sValue = oSegment.DataElementValue(4)          ' Name First (1036)
                            sValue = oSegment.DataElementValue(5)          ' Name Middle (1037)
                            sValue = oSegment.DataElementValue(6)          ' Name Prefix (1038)
                            sValue = oSegment.DataElementValue(7)          ' Name Suffix (1039)

                        ElseIf sSegmentID = "N3" Then        ' Address Information
                            sValue = oSegment.DataElementValue(1)          ' Address Information (166)
                            sValue = oSegment.DataElementValue(2)          ' Address Information (166)

                        ElseIf sSegmentID = "N4" Then        ' Geographic Location
                            sValue = oSegment.DataElementValue(1)          ' City Name (19)
                            sValue = oSegment.DataElementValue(2)          ' State or Province Code (156)
                            sValue = oSegment.DataElementValue(3)          ' Postal Code (116)
                            sValue = oSegment.DataElementValue(4)          ' Country Code (26)
                            sValue = oSegment.DataElementValue(7)          ' Country Subdivision Code (1715)
                        End If        ' sSegmentID = "N4"
                    End If        'sNm1Qlfr
```

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                    ElseIf sLoopSection = "INS;DSB" Then    '2200 DISABILITY INFORMATION
                        If sSegmentID = "DSB" Then        'Disability Information
                            sValue = oSegment.DataElementValue(1)        ' Disability Type Code (1146)
                            sValue = oSegment.DataElementValue(7)        ' Product/Service ID Qualifier (235)
                            sValue = oSegment.DataElementValue(8)        ' Medical Code Value (1137)

                        ElseIf sSegmentID = "DTP" Then       'Disability Eligibility Dates
                            sValue = oSegment.DataElementValue(1)       ' Date/Time Qualifier (374)
                            sValue = oSegment.DataElementValue(2)       ' Date Time Period Format Qualifier   ↙
    (1250)
                            sValue = oSegment.DataElementValue(3)       ' Date Time Period (1251)
                        End If     ' sSegmentID = "DTP"

                    ElseIf sLoopSection = "INS;HD" Then '2300 HEALTH COVERAGE
                        If sSegmentID = "HD" Then        ' Health Coverage
                            sValue = oSegment.DataElementValue(1)        ' Maintenance Type Code (875)
                            ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Insurance Line Code")
                            sValue = oSegment.DataElementValue(4)        ' Plan Coverage Description (1204)
                            sValue = oSegment.DataElementValue(5)        ' Coverage Level Code (1207)
                            sValue = oSegment.DataElementValue(9)        ' Yes/No Condition or Response Code   ↙
    (1073)
                            sValue = oSegment.DataElementValue(10)       ' Drug House Code (1211)
                            sValue = oSegment.DataElementValue(11)       ' Yes/No Condition or Response Code   ↙
    (1073)

                        ElseIf sSegmentID = "DTP" Then       'Health Coverage Dates
                            sQlfr = oSegment.DataElementValue(1)       ' Date/Time Qualifier (374)
                            If sQlfr = "348" Then
                                sValue = oSegment.DataElementValue(2)        ' Date Time Period Format Qualifier ↙
     (1250)
                                ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Benefit Begin")
                            ElseIf sQlfr = "349" Then
                                sValue = oSegment.DataElementValue(2)        ' Date Time Period Format Qualifier ↙
     (1250)
                                ListBox1.Items.Add(oSegment.DataElementValue(3) + " = Benefit End")
                            End If

                        ElseIf sSegmentID = "AMT" Then       'Health Coverage Policy
                            sValue = oSegment.DataElementValue(1)       ' Amount Qualifier Code (522)
                            sValue = oSegment.DataElementValue(2)       ' Monetary Amount (782)

                        ElseIf sSegmentID = "REF" Then
                            sQlfr = oSegment.DataElementValue(1)
                            If (sQlfr = "17" Or sQlfr = "1L" Or sQlfr = "9V" Or sQlfr = "CE" Or sQlfr = "E8" Or ↙
     sQlfr = "M7" Or sQlfr = "PID" Or sQlfr = "RB" Or sQlfr = "X9" Or sQlfr = "XM" Or sQlfr = "XX1" Or         ↙
    sQlfr = "XX2" Or sQlfr = "ZX" Or sQlfr = "ZZ") Then    'Health Coverage Policy Number
                                sValue = oSegment.DataElementValue(2)        ' Reference Identification (127)

                            ElseIf sQlfr = "QQ" Then     'Prior Coverage Months
                                sValue = oSegment.DataElementValue(2)       ' Reference Identification (127)
                            End If      ' sqlfr = "QQ"

                        ElseIf sSegmentID = "IDC" Then       ' Identification Card
                            sValue = oSegment.DataElementValue(1)       ' Plan Coverage Description (1204)
                            sValue = oSegment.DataElementValue(2)       ' Identification Card Type Code (1215)
                            sValue = oSegment.DataElementValue(3)       ' Quantity (380)
                            sValue = oSegment.DataElementValue(4)       ' Action Code (306)
                        End If    'Segment ID

                    ElseIf sLoopSection = "INS;HD;LX" Then   '2310 PROVIDER INFORMATION
                        If sSegmentID = "LX" Then        'Provider Information
                            sValue = oSegment.DataElementValue(1)       ' Assigned Number (554)

                        ElseIf sSegmentID = "NM1" Then       'Provider Name
                            sValue = oSegment.DataElementValue(1)        ' Entity Identifier Code (98)
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                        sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
                        sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name (1035) ↙

                        sValue = oSegment.DataElementValue(4)          ' Name First (1036)
                        sValue = oSegment.DataElementValue(5)          ' Name Middle (1037)
                        sValue = oSegment.DataElementValue(6)          ' Name Prefix (1038)
                        sValue = oSegment.DataElementValue(7)          ' Name Suffix (1039)
                        sValue = oSegment.DataElementValue(8)          ' Identification Code Qualifier (66)
                        sValue = oSegment.DataElementValue(9)          ' Identification Code (67)
                        sValue = oSegment.DataElementValue(10)         ' Entity Relationship Code (706)

                    ElseIf sSegmentID = "N3" Then        'Provider Address
                        sValue = oSegment.DataElementValue(1)          ' Address Information (166)
                        sValue = oSegment.DataElementValue(2)          ' Address Information (166)

                    ElseIf sSegmentID = "N4" Then        ' Geographic Location
                        sValue = oSegment.DataElementValue(1)          ' City Name (19)
                        sValue = oSegment.DataElementValue(2)          ' State or Province Code (156)
                        sValue = oSegment.DataElementValue(3)          ' Postal Code (116)
                        sValue = oSegment.DataElementValue(4)          ' Country Code (26)
                        sValue = oSegment.DataElementValue(7)          ' Country Subdivision Code (1715)

                    ElseIf sSegmentID = "PER" Then       'Provider Communications Numbers
                        sValue = oSegment.DataElementValue(1)          ' Contact Function Code (366)
                        sValue = oSegment.DataElementValue(2)          ' Name (93)
                        sValue = oSegment.DataElementValue(3)          ' Communication Number Qualifier (365)
                        sValue = oSegment.DataElementValue(4)          ' Communication Number (364)
                        sValue = oSegment.DataElementValue(5)          ' Communication Number Qualifier (365)
                        sValue = oSegment.DataElementValue(6)          ' Communication Number (364)
                        sValue = oSegment.DataElementValue(7)          ' Communication Number Qualifier (365)
                        sValue = oSegment.DataElementValue(8)          ' Communication Number (364)

                    ElseIf sSegmentID = "PLA" Then       'Provider Change Reason
                        sValue = oSegment.DataElementValue(1)          ' Action Code (306)
                        sValue = oSegment.DataElementValue(2)          ' Entity Identifier Code (98)
                        sValue = oSegment.DataElementValue(3)          ' Date (373)
                        sValue = oSegment.DataElementValue(5)          ' Maintenance Reason Code (1203)
                    End If       ' sSegmentID = "PLA"

                ElseIf sLoopSection = "INS;HD;COB" Then '2320 COORDINATION OF BENEFITS
                    If sSegmentID = "COB" Then        'Coordination of Benefits
                        sValue = oSegment.DataElementValue(1)             ' Payer Responsibility Sequence Number ↙
    Code (1138)
                        sValue = oSegment.DataElementValue(2)          ' Reference Identification (127)
                        sValue = oSegment.DataElementValue(3)          ' Coordination of Benefits Code (1143)
                        sValue = oSegment.DataElementValue(4)          ' Service Type Code (1365)

                    ElseIf sSegmentID = "REF" Then       'Additional Coordination of Benefits Identifiers
                        sValue = oSegment.DataElementValue(1)             ' Reference Identification Qualifier   ↙
    (128)
                        sValue = oSegment.DataElementValue(2)          ' Reference Identification (127)

                    ElseIf sSegmentID = "DTP" Then       'Coordination of Benefits Eligibility Dates
                        sValue = oSegment.DataElementValue(1)          ' Date/Time Qualifier (374)
                        sValue = oSegment.DataElementValue(2)             ' Date Time Period Format Qualifier   ↙
    (1250)
                        sValue = oSegment.DataElementValue(3)          ' Date Time Period (1251)
                    End If       ' sSegmentID = "DTP"

                ElseIf sLoopSection = "INS;HD;COB;NM1" Then '2330 COORDINATION OF BENEFITS RELATED ENTITY
                    If sSegmentID = "NM1" Then        'Coordination of Benefits Related Entity
                        sValue = oSegment.DataElementValue(1)          ' Entity Identifier Code (98)
                        sValue = oSegment.DataElementValue(2)          ' Entity Type Qualifier (1065)
                        sValue = oSegment.DataElementValue(3)          ' Name Last or Organization Name (1035) ↙

                        sValue = oSegment.DataElementValue(8)          ' Identification Code Qualifier (66)
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                            sValue = oSegment.DataElementValue(9)         ' Identification Code (67)

                    ElseIf sSegmentID = "N3" Then        ' Address Information
                            sValue = oSegment.DataElementValue(1)         ' Address Information (166)
                            sValue = oSegment.DataElementValue(2)         ' Address Information (166)

                    ElseIf sSegmentID = "N4" Then        ' Geographic Location
                            sValue = oSegment.DataElementValue(1)         ' City Name (19)
                            sValue = oSegment.DataElementValue(2)         ' State or Province Code (156)
                            sValue = oSegment.DataElementValue(3)         ' Postal Code (116)
                            sValue = oSegment.DataElementValue(4)         ' Country Code (26)
                            sValue = oSegment.DataElementValue(7)         ' Country Subdivision Code (1715)

                    ElseIf sSegmentID = "PER" Then       ' Administrative Communications Contact
                            sValue = oSegment.DataElementValue(1)         ' Contact Function Code (366)
                            sValue = oSegment.DataElementValue(3)         ' Communication Number Qualifier (365)
                            sValue = oSegment.DataElementValue(4)         ' Communication Number (364)
                    End If        ' sSegmentID = "PER"

                ElseIf sLoopSection = "INS;LX" Then '2710 MEMBER REPORTING CATEGORIES
                    If sSegmentID = "LX" Then         'Member Reporting Categories
                            sValue = oSegment.DataElementValue(1)         ' Assigned Number (554)
                    End If        ' sSegmentID = "LX"

                ElseIf sLoopSection = "INS;LX;N1" Then   '2750 REPORTING CATEGORY
                    If sSegmentID = "N1" Then         'Reporting Category
                            sValue = oSegment.DataElementValue(1)         ' Entity Identifier Code (98)
                            sValue = oSegment.DataElementValue(2)         ' Name (93)

                    ElseIf sSegmentID = "REF" Then       'Reporting Category Reference
                            sValue = oSegment.DataElementValue(1)         ' Reference Identification Qualifier  ↵
        (128)
                            sValue = oSegment.DataElementValue(2)         ' Reference Identification (127)

                    ElseIf sSegmentID = "DTP" Then       'Reporting Category Date
                            sValue = oSegment.DataElementValue(1)         ' Date/Time Qualifier (374)
                            sValue = oSegment.DataElementValue(2)         ' Date Time Period Format Qualifier  ↵
        (1250)
                            sValue = oSegment.DataElementValue(3)         ' Date Time Period (1251)
                    End If        ' sSegmentID = "DTP"
                End If    'sLoopSection
            End If    'nArea

            'GETS THE NEXT DATA SEGMENT
            ediDataSegment.Set(oSegment, oSegment.Next)
        Loop

        MessageBox.Show("Done")

        'DESTROY OBJECTS
        oSchemas.Dispose()
        oEdiDoc.Dispose()

    End Sub
End Class
```