EDIDEV KNOWLEDGE LETTER
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http://www.edidev.com

EdiDataElement.RecordAckCode() Method (FREDI version 5.7)
===

How do you customize the automatically generated 997 acknowledgment EDI file to
include an error that was not detected by FREDI? For example, you receive an 837
EDI file with a negative number in a data element, but your guideline has specified
that no numbers are allowed to have a negative sign, which by default FREDI
accepts. Well, before the RecordAckCode method, you would have to programmatically
modify the 997 EDI file itself after it has been generated. This was not an easy
task and the 997 file was prone to corruption. But now with the RecordAckCode()
Method, you can inject the error code into the 997 whilst FREDI is building it.
Let us see how this is done:

First, here is a C# code that generates a 997 acknowledgment file while an 837 EDI
file is being validated:

```
oEdiDoc = new ediDocument();
oEdiDoc.CursorType = DocumentCursorTypeConstants.Cursor_ForwardOnly;
oAck = oEdiDoc.GetAcknowledgment();
oAck.EnableFunctionalAcknowledgment = true;
oEdiDoc.LoadSchema(sPath + "997.SEF", 0);
oEdiDoc.LoadSchema(sPath + "837.SEF", 0);
oEdiDoc.LoadEdi(sPath + "837_Inbound.X12");

oSegment = oEdiDoc.FirstDataSegment;
while (oSegment != null)
{
        oSegment = oSegment.Next();
}

oAck.Save(sPath + "997_Output.X12");
```

The section of the source code where the 837 is validated and the 997 is actually
getting built happens during the iteration of each segment (below):

```
while (oSegment != null)
{
        oSegment = oSegment.Next();
}
```

So to check for negative numbers in a data element, and acknowledge it as an error,
you would modify the above source code by adding a condition to check for a

negative sign in values that have numeric data types, and then passing the 997 error code "6" (to denote invalid character) to FREDI with the RecordAckCode() method. Like so:

```
        while (oSegment != null)
        {
                if ("R,N0,N1,N2".Contains(oElement.DataType))
                {
                        if (oElement.Value.Contains("-"))
                        {
                                oElement.RecordAckCode("6");    //This error will
be depicted in element AK403.
                        }
                }
                oSegment = oSegment.Next();
        }
```

And that's all to it! A complete example can be downloaded from our Customer Support website.

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