

# A Preliminary Guide to Creating 94x Acknowledgement Files

Updated: June 14, 2002

This document describes the procedure for creating a sample 94x acknowledgement file with dummy data.

## Assumptions

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1. The 94x XML Schemas Final Release 2.0 will be used as the base schemas for creating the XML data instances.
2. XML Spy Suite 4.3 is used as the tool for creating and validating XML data instances generated from the aforementioned base schemas.
3. All optional fields will be created to illustrate the widest spectrum of data combinations. The actual definitions of required vs. optional fields can be found in the base schemas.
4. All XML data instances generated are kept in the instances subdirectory directly under the root of the 94x XML schemas package. If placed elsewhere, the `xsi:schemaLocation` attributes in all data instances generated need to be modified to reflect the location of the XML instance relative to other schemas.

## Step 1 – Create Acknowledgement Envelope

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### ◆ Step 1.1: Create Acknowledgement Envelope Skeleton

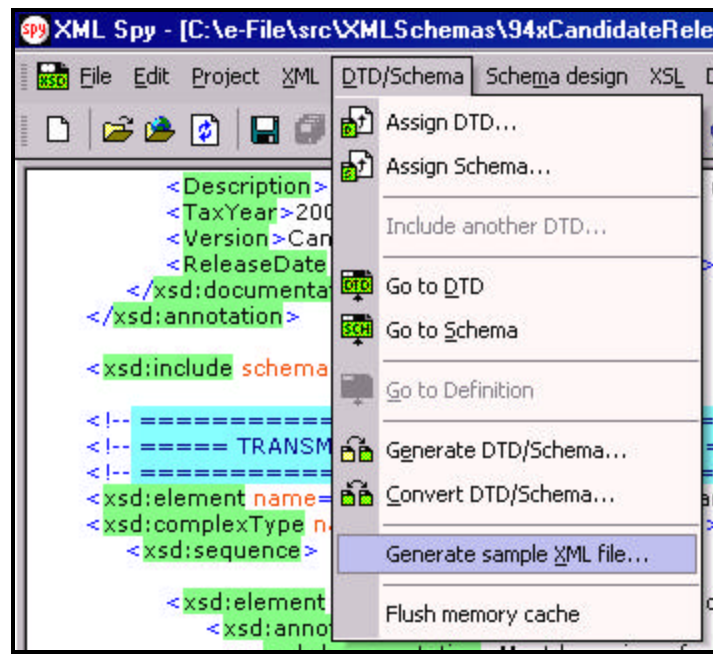
Create the acknowledgement envelope skeleton as outlined below. After filling in the placeholders, it becomes the SOAP Envelope (Body only, i.e. no Header) in the acknowledgement file.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP:Envelope xmlns="http://www.irs.gov/efile"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAP="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:efile="http://www.irs.gov/efile"
xsi:schemaLocation="http://schemas.xmlsoap.org/soap/envelope/ ../message/SOAP.xsd
http://www.irs.gov/efile ../message/efileMessage.xsd">
  <SOAP:Body>
    Placeholder for AcknowledgementAction
  </SOAP:Body>
</SOAP:Envelope>
```

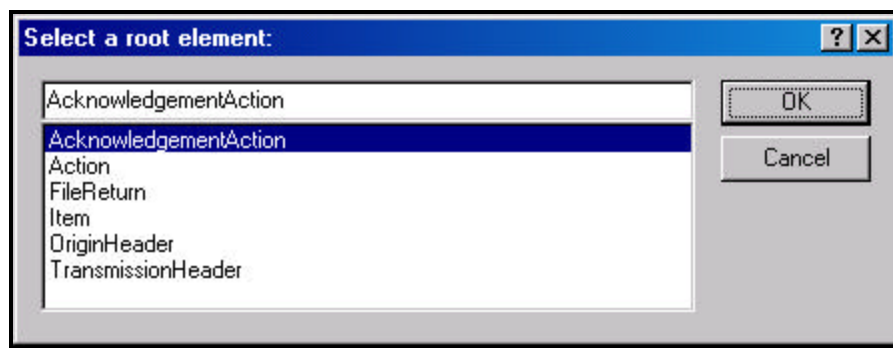
### ◆ Step 1.2: Create AcknowledgementAction

Open `message/efileMessage.xsd` in XML Spy and select DTD/Schema from the main menu. Next select Generate sample XML file...

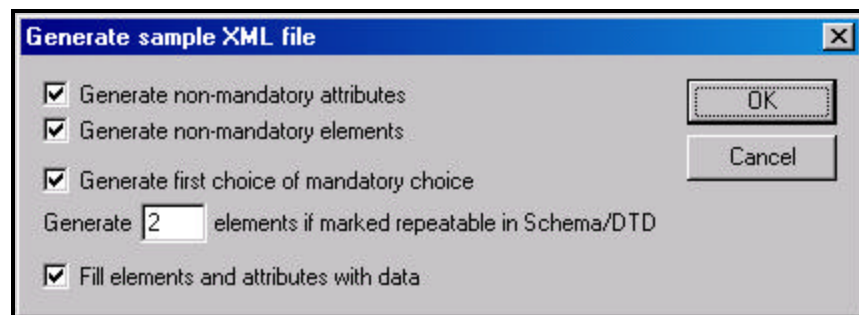
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Select AcknowledgementAction from the pop-up menu shown below:



Check all options in the following pop-up menu and specify 2 (or more) repeatable elements so that repeating structures are illustrated in the sample data.



You now have an XML Spy generated XML data structure for the entire acknowledgement.

◆ Step 1.3: Complete the Placeholder for AcknowledgementAction

In the AcknowledgementAction data structure:

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1. Remove all attributes in the AcknowledgementAction element and prefix the element name (begin and end tags) with efile:
2. Duplicate the OriginAcknowledgement and ItemAcknowledgement structures as needed for multiple items. Edit the data as you see fit. Make sure all instances of OriginId and OrigTransContentLocation are correctly referencing the ones in the transmission file.

### ◆ Step 1.3: Complete the Acknowledgement Envelope

Plug in the AcknowledgementAction structure from Step 1.2 into the Placeholder for AcknowledgementAction defined in Step 1.1.

The complete Acknowledgement Envelope is shown below:


```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP:Envelope xmlns="http://www.irs.gov/efile"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAP="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:efile="http://www.irs.gov/efile"
xsi:schemaLocation="http://schemas.xmlsoap.org/soap/envelope/ ../message/SOAP.xsd
http://www.irs.gov/efile ../message/efileMessage.xsd">
  <SOAP:Body>
    <efile:AcknowledgementAction>
      <Acknowledgement>
        <AcknowledgementId>IRS94x2002-12-31T06:22:12</AcknowledgementId>
        <AcknowledgementTimestamp>2001-12-17T09:30:47-05:00</AcknowledgementTimestamp>
        <TransmissionAcknowledgement>
          <TransmissionId>MyUniqueTransID001</TransmissionId>
          <TransmissionTimestamp>2002-12-31T06:22:12-05:00</TransmissionTimestamp>
          <TransmissionStatus>A</TransmissionStatus>
          <Errors errorCount="2">
            <Error errorId="1">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
              <ErrorMessage>String</ErrorMessage>
            </Error>
            <Error errorId="2">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
              <ErrorMessage>String</ErrorMessage>
            </Error>
          </Errors>
        <OriginAcknowledgement>
          <OriginId>MyUniqueOrigID001</OriginId>
          <OriginTimestamp>2001-12-17T09:30:47-05:00</OriginTimestamp>
          <OriginStatus>A</OriginStatus>
          <Errors errorCount="2">
            <Error errorId="3">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
              <ErrorMessage>String</ErrorMessage>
            </Error>
            <Error errorId="4">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
              <ErrorMessage>String</ErrorMessage>
            </Error>
          </Errors>
        <ItemAcknowledgement>
          <OrigTransContentLocation>999999RetData20020617T093047</OrigTransContentLocation>
          <EIN>010000000</EIN>
          <ItemStatus>R</ItemStatus>
          <PaymentIndicator>Payment Request Received</PaymentIndicator>
          <Errors errorCount="2">
            <Error errorId="5">
```

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```
<XPath>String</XPath>
<ErrorCode>String</ErrorCode>
<ErrorMessage>String</ErrorMessage>
</Error>
<Error errorId="6">
  <XPath>String</XPath>
  <ErrorCode>String</ErrorCode>
  <ErrorMessage>String</ErrorMessage>
</Error>
</Errors>
</ItemAcknowledgement>
<ItemAcknowledgement>
  <OrigTransContentLocation>999999RetData20020617T093101</OrigTransContentLocation>
  <EIN>010000000</EIN>
  <ItemStatus>R</ItemStatus>
  <PaymentIndicator>Payment Request Received</PaymentIndicator>
  <Errors errorCount="2">
    <Error errorId="7">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
    <Error errorId="8">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
  </Errors>
</ItemAcknowledgement>
</OriginAcknowledgement>
<OriginAcknowledgement>
  <OriginId>MyUniqueOrigID002</OriginId>
  <OriginTimestamp>2001-12-17T09:30:47-05:00</OriginTimestamp>
  <OriginStatus>A</OriginStatus>
  <Errors errorCount="2">
    <Error errorId="9">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
    <Error errorId="10">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
  </Errors>
</ItemAcknowledgement>
<ItemAcknowledgement>
  <OrigTransContentLocation>MyUnique001ReturnId</OrigTransContentLocation>
  <EIN>010000000</EIN>
  <ItemStatus>R</ItemStatus>
  <PaymentIndicator>Payment Request Received</PaymentIndicator>
  <Errors errorCount="2">
    <Error errorId="11">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
    <Error errorId="12">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
  </Errors>
</ItemAcknowledgement>
<ItemAcknowledgement>
  <OrigTransContentLocation>MyUnique002ReturnId</OrigTransContentLocation>
  <EIN>210000000</EIN>
  <ItemStatus>A</ItemStatus>
  <PaymentIndicator>Payment Request Received</PaymentIndicator>
</ItemAcknowledgement>
</OriginAcknowledgement>
</TransmissionAcknowledgement>
</Acknowledgement>
</efile:AcknowledgementAction>
</SOAP:Body>
</SOAP:Envelope>
```

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## ◆ Step 1.4: Validate the Acknowledgement Envelope

1. Validate the Acknowledgement Envelope in XML Spy by clicking on the  button on the tool bar.
2. Correct the data, if necessary, and re-validate.

## Step 2 – Create Acknowledgement File

The most notable difference between the 94x return transmission file and the acknowledgement file is that the acknowledgement file is NOT a MIME multi-part document - it contains only the Acknowledgement Envelope with the body only, i.e. no header. The entire envelope is a self-contained XML data structure. The acknowledgement file can be created by simply adding the Content-Type header to the Acknowledgement Envelope. The required content-type header is highlighted.

The complete acknowledgement file is shown below in its entirety:

**Content-Type: text/xml; charset=UTF-8**

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP:Envelope xmlns="http://www.irs.gov/efile"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAP="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:efile="http://www.irs.gov/efile"
xsi:schemaLocation="http://schemas.xmlsoap.org/soap/envelope/ ../message/SOAP.xsd
http://www.irs.gov/efile ../message/efileMessage.xsd">
  <SOAP:Body>
    <efile:AcknowledgementAction>
      <Acknowledgement>
        <AcknowledgementId>IRS94x2002-12-31T06:22:12</AcknowledgementId>
        <AcknowledgementTimestamp>2001-12-17T09:30:47-05:00</AcknowledgementTimestamp>
        <TransmissionAcknowledgement>
          <TransmissionId>MyUniqueTransID001</TransmissionId>
          <TransmissionTimestamp>2002-12-31T06:22:12-05:00</TransmissionTimestamp>
          <TransmissionStatus>A</TransmissionStatus>
          <Errors errorCount="2">
            <Error errorId="1">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
              <ErrorMessage>String</ErrorMessage>
            </Error>
            <Error errorId="2">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
              <ErrorMessage>String</ErrorMessage>
            </Error>
          </Errors>
        <OriginAcknowledgement>
          <OriginId>MyUniqueOrigID001</OriginId>
          <OriginTimestamp>2001-12-17T09:30:47-05:00</OriginTimestamp>
          <OriginStatus>A</OriginStatus>
          <Errors errorCount="2">
            <Error errorId="3">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
              <ErrorMessage>String</ErrorMessage>
            </Error>
            <Error errorId="4">
              <XPath>String</XPath>
              <ErrorCode>String</ErrorCode>
            </Error>
          </Errors>
        </OriginAcknowledgement>
      </Acknowledgement>
    </efile:AcknowledgementAction>
  </SOAP:Body>
</SOAP:Envelope>
```

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```
<ErrorMessage>String</ErrorMessage>
</Error>
</Errors>
</ItemAcknowledgement>
<ItemAcknowledgement>
  <OrigTransContentLocation>999999RetData20020617T093047</OrigTransContentLocation>
  <EIN>010000000</EIN>
  <ItemStatus>R</ItemStatus>
  <PaymentIndicator>Payment Request Received</PaymentIndicator>
  <Errors errorCount="2">
    <Error errorId="5">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
    <Error errorId="6">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
  </Errors>
</ItemAcknowledgement>
<ItemAcknowledgement>
  <OrigTransContentLocation>999999RetData20020617T093101</OrigTransContentLocation>
  <EIN>010000000</EIN>
  <ItemStatus>R</ItemStatus>
  <PaymentIndicator>Payment Request Received</PaymentIndicator>
  <Errors errorCount="2">
    <Error errorId="7">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
    <Error errorId="8">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
  </Errors>
</ItemAcknowledgement>
</OriginAcknowledgement>
<OriginAcknowledgement>
  <OriginId>MyUniqueOrigID002</OriginId>
  <OriginTimestamp>2001-12-17T09:30:47-05:00</OriginTimestamp>
  <OriginStatus>A</OriginStatus>
  <Errors errorCount="2">
    <Error errorId="9">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
    <Error errorId="10">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
  </Errors>
</ItemAcknowledgement>
<ItemAcknowledgement>
  <OrigTransContentLocation>MyUnique001ReturnId</OrigTransContentLocation>
  <EIN>010000000</EIN>
  <ItemStatus>R</ItemStatus>
  <PaymentIndicator>Payment Request Received</PaymentIndicator>
  <Errors errorCount="2">
    <Error errorId="11">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
    <Error errorId="12">
      <XPath>String</XPath>
      <ErrorCode>String</ErrorCode>
      <ErrorMessage>String</ErrorMessage>
    </Error>
  </Errors>
</ItemAcknowledgement>
<ItemAcknowledgement>
  <OrigTransContentLocation>MyUnique002ReturnId</OrigTransContentLocation>
  <EIN>210000000</EIN>
```

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```
<ItemStatus>A</ItemStatus>  
  <PaymentIndicator>Payment Request Received</PaymentIndicator>  
</ItemAcknowledgement>  
</OriginAcknowledgement>  
</TransmissionAcknowledgement>  
</Acknowledgement>  
</efile:AcknowledgementAction>  
</SOAP:Body>  
</SOAP:Envelope>
```