FMS Web Services
for FMS III

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FMS WEB SERVICES INSTALLATION INSTRUCTIONS

Introduction

This section contains step-by-step instructions for installing FMS Web Services on a Windows Web server. This assumes that the FMS account which the FMS Web Services will be accessing is already installed. The FMS Web Services may be installed on the same or a different server as the FMS account. It is also assumed that the FMS Web Services listener has been installed on the FMS Account which the FMS Web Services will be accessing.

Step-By-Step Overview

Creation of the FMS Web Services involves the following steps. Use this list as a checklist to verify that you have completed each step before proceeding to the next step. **Do not skip steps. Do not perform steps in a different order.**

System Requirements

FMS Web Services must be installed on a Windows Server which has Internet Information Services and .NET Framework, Version 4.0.

In Internet Information Services on the Windows Server, you must specify an Application Pool for FMS Web Services.

Things You Need To Know Before You Start

You must have a general knowledge of Windows, including the ability to use Windows Explorer to modify an existing text file.

You will need the following specific information in order to complete the test account installation successfully.

1) The location of the directory tree containing files for the FMS account which the FMS Web Services will be accessing. The name of the directory matches the name of your FMS account, and typically begins with the three letters "fms."

2) The IP port number and address on which the FMS Web Services connection listener listens.

Install the FMS Listener for the Web Service

Run the FMS MHNet Listener Setup Program on the Installation Disk

On the Windows Server that the installation of FMS is on, execute the program, **MHNetListenerSetup.exe,** on the installation disk. The following screen will be displayed.
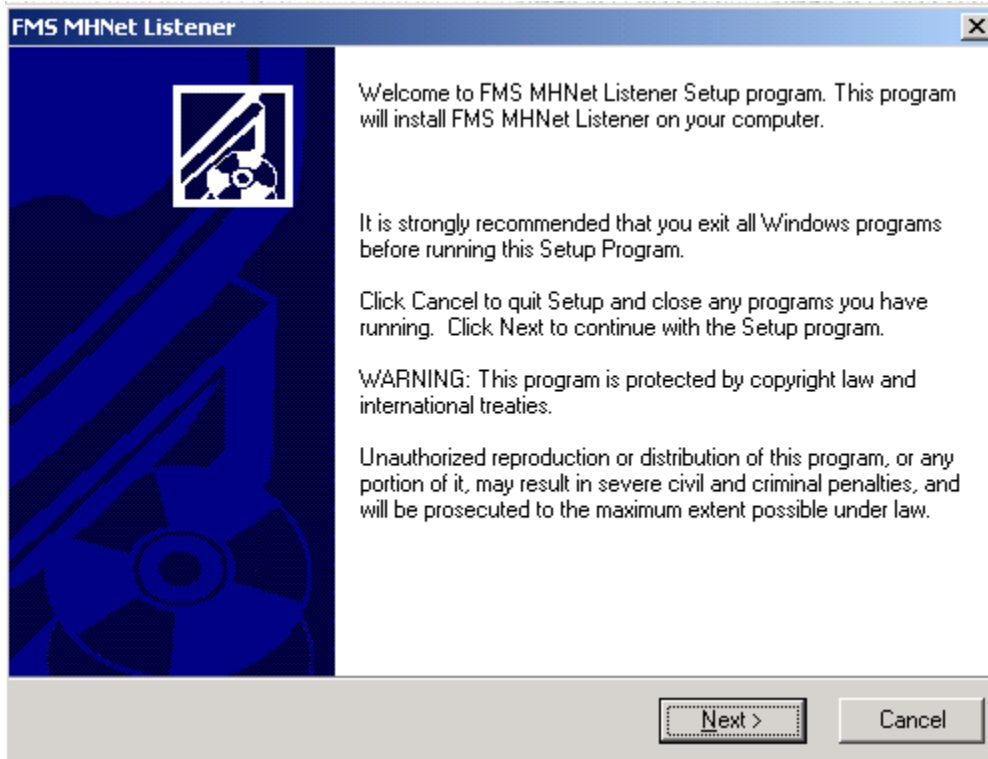
Press **Next>** after reading the warning information and shutting down all Windows programs.

Complete the information on the FMS MHNet Listener Information screen. Please note that the Port for this listener must be different than the Port used by the FMS installation. The Port used by the FMS installation can be obtained by viewing the MHCCL.INI file in the FMS directory of the FMS installation. The User and Password entered should be the same as that used for the FMS Connection Listener. After all fields have been entered, press **Next>.**
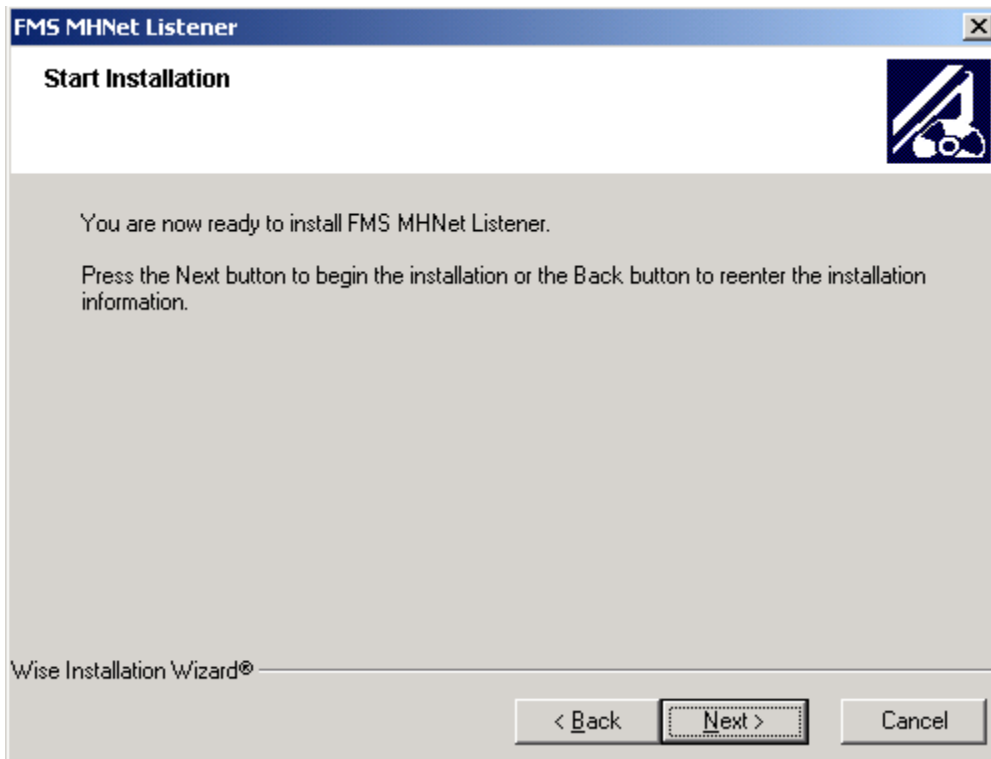
Press **Next>** on the confirmation screen.
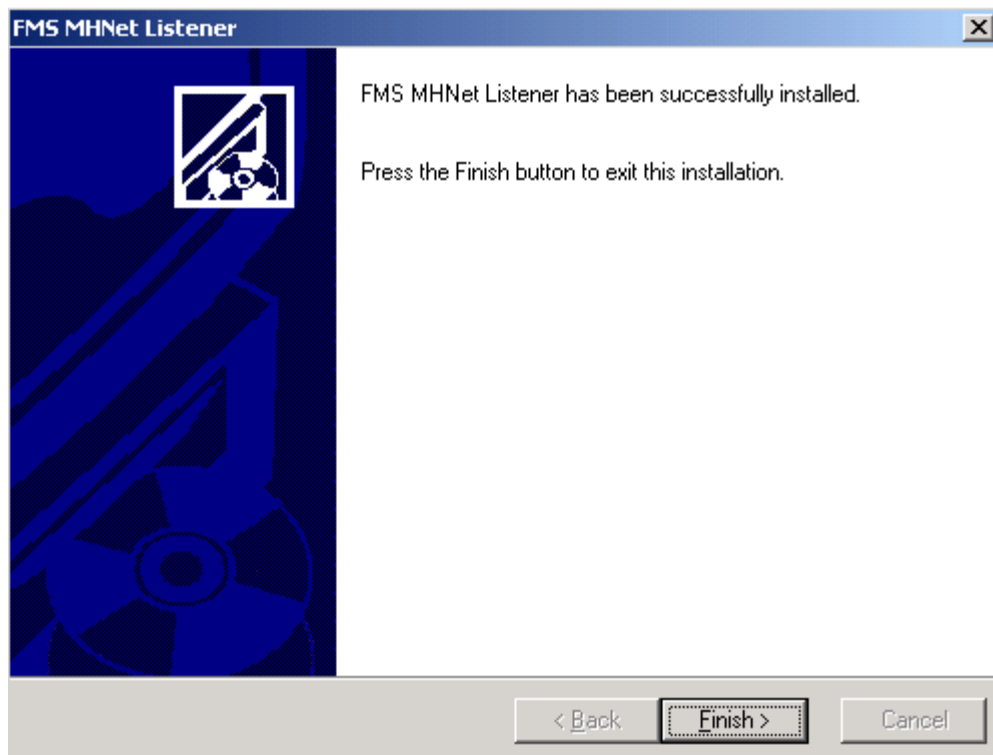
Press **Finish>** on the installation confirmation screen.

The MHNet FMS Listener is now installed.

Install the Web Service

Run the Setup Program on the Installation Disk

Execute the program **Setup.exe** on the installation disk. The following screen will be displayed.

Press **Next>** on the Welcome screen.
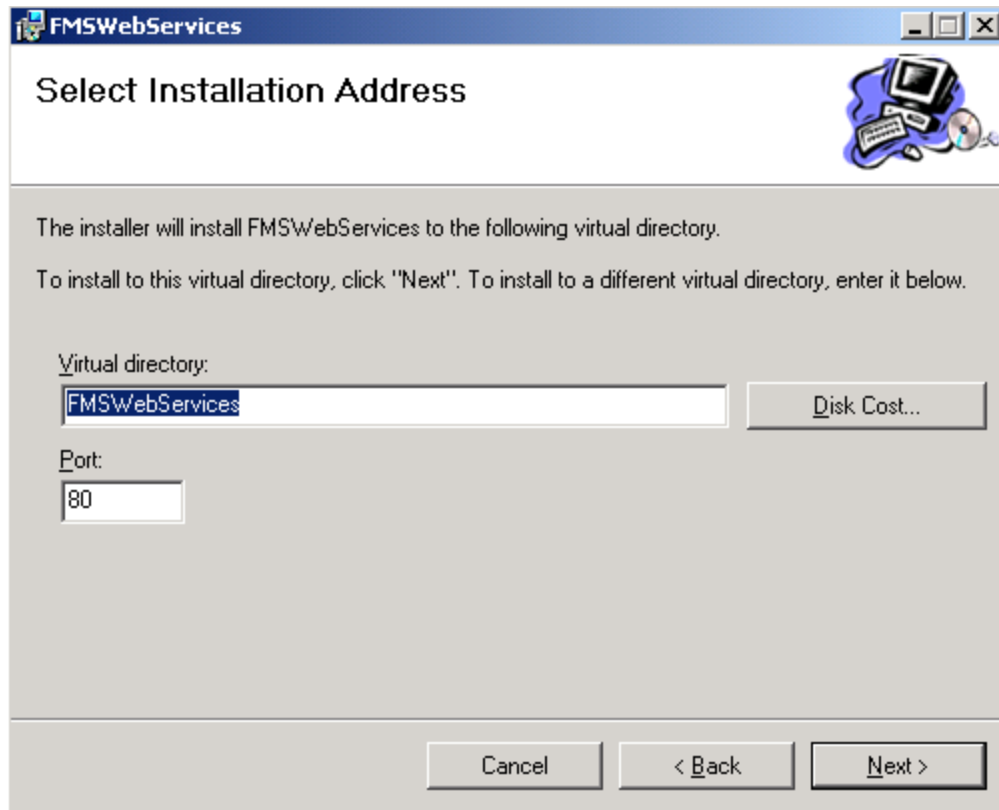
Leave the default <u>P</u>ort (80). The default <u>V</u>irtual directory is normally suitable, but can be changed if desired. When you are satisfied with your selection, press **Next>**.
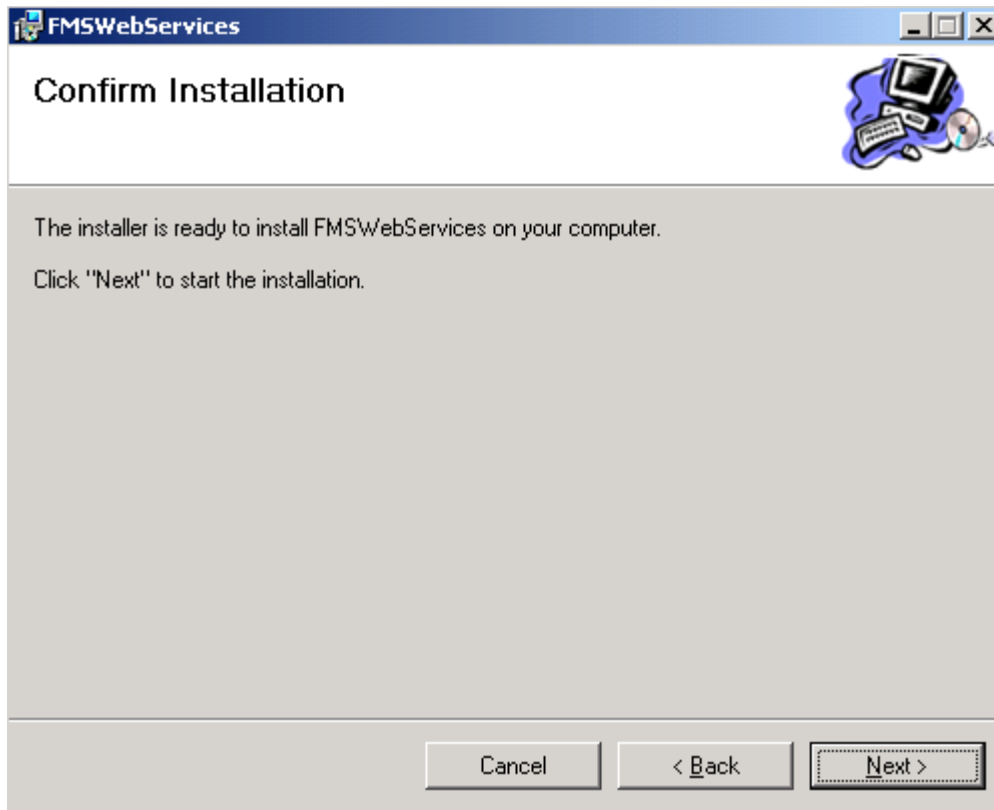
Press **Next>** on the Confirm Installation screen.
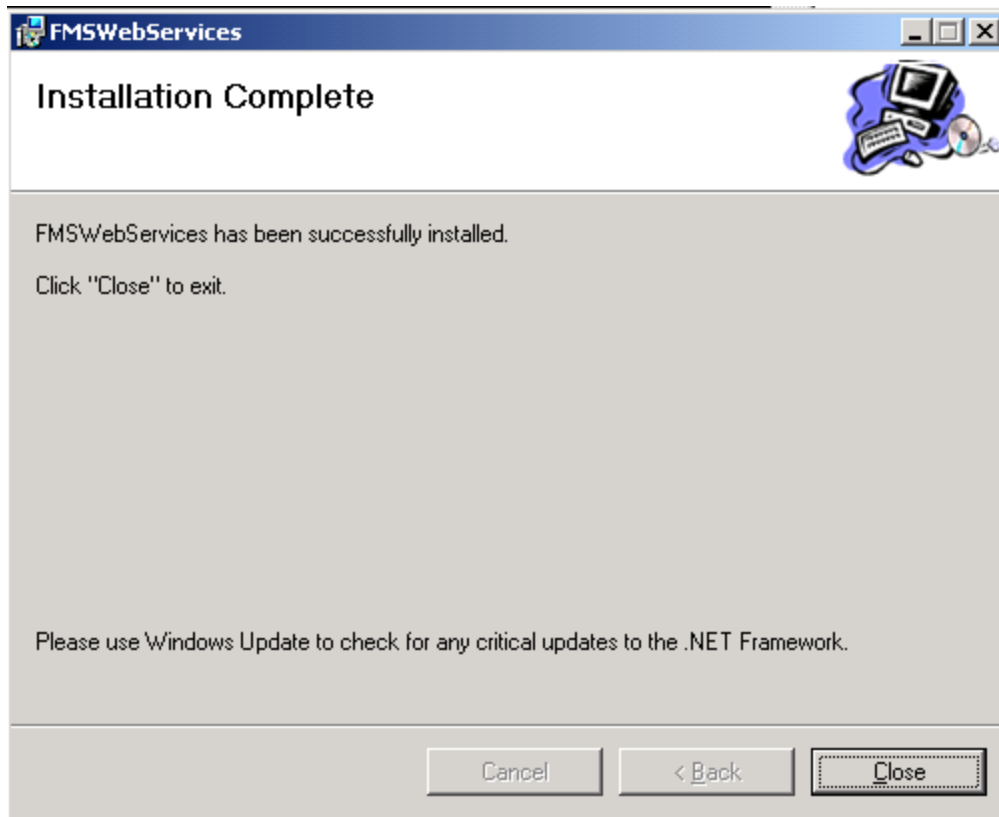
Press the **Close** button on the Installation Complete screen.
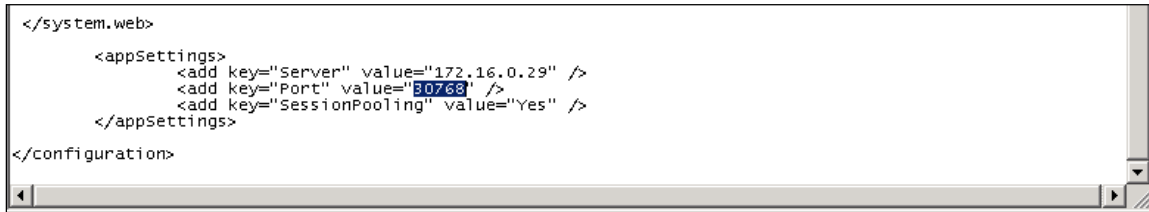
Edit the Web.config File

Edit the Web.config file and update the IP port and address fields with the address/port of the FMS Web Services connection listener.

Using Windows Explorer, navigate to the virtual directory created above (c:\inetpub\wwwroot\FMSWebServices). Using the Mouse, right click the Web.config file. Use the "Open with" menu option and open the file with "Notepad." At the bottom of the Web.config file, change the IP address (highlighted selection below) to the IP address of the server on which the FMS account is installed.

```
     />
  </system.web>

         <appSettings>
                 <add key="Server" value="172.16.0.29" />
                 <add key="Port" value="30768" />
                 <add key="SessionPooling" value="Yes" />
         </appSettings>

</configuration>
```

Then, change the Port (highlighted selection below) to the Port that the FMS Web Services listener is listening on.

```
</system.web>

        <appSettings>
                <add key="Server" value="172.16.0.29" />
                <add key="Port" value="30768" />
                <add key="SessionPooling" value="Yes" />
        </appSettings>

</configuration>
```

Save and close the Web.config file.

Installation is complete.

Install a Second Web Service for a Test Account

First, install the FMS Web Service Listener for the test account. This must be done on the Windows Server that has the FMS installation. Use the procedure described above to install the Web Service Listener. Then proceed to the following steps to install the Web Service.

Installing a Web Service for a Test Account on a different Web Server then that of the Production Account

In this case, just use the procedure described above for installing the Web Service.

Installing a Web Service for the Test Account on the same Web Server as that of the Production Account

Please read *Upgrade Considerations When a Second Web Service Exists* when naming the second Web Service for naming considerations.

1. Create a new directory which will contain the Web Services for the Test Account.
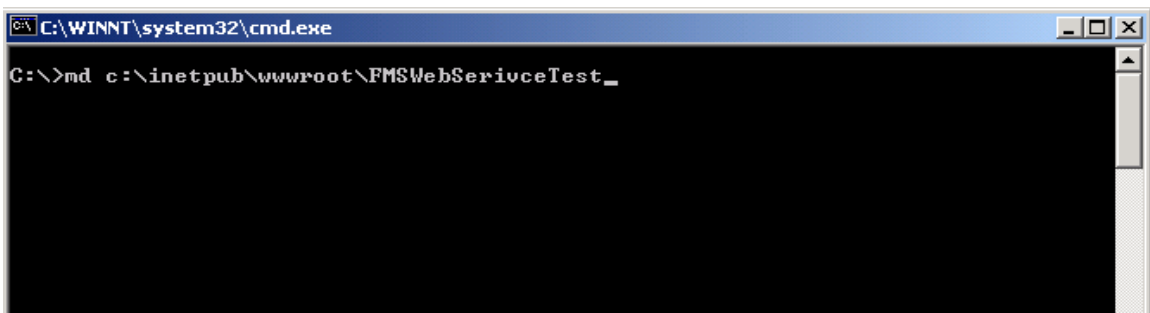
2. Create a Virtual Directory for the Web Services for the Test Account using "Internet Information Services" in the Windows "Administrative Tools" folder.
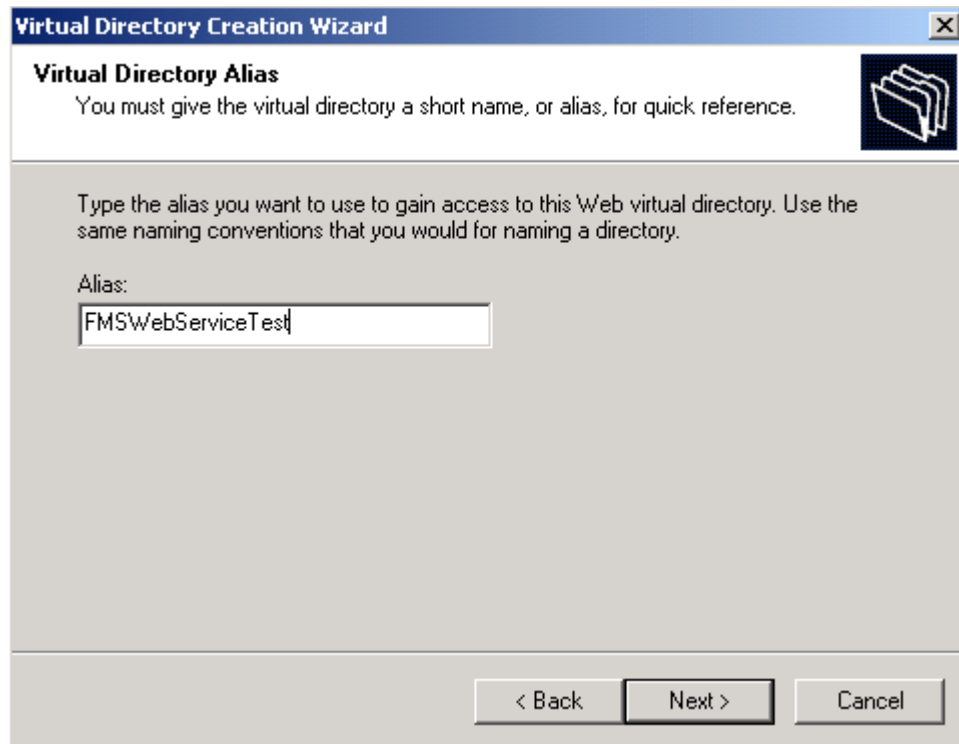
Press **Next>**.
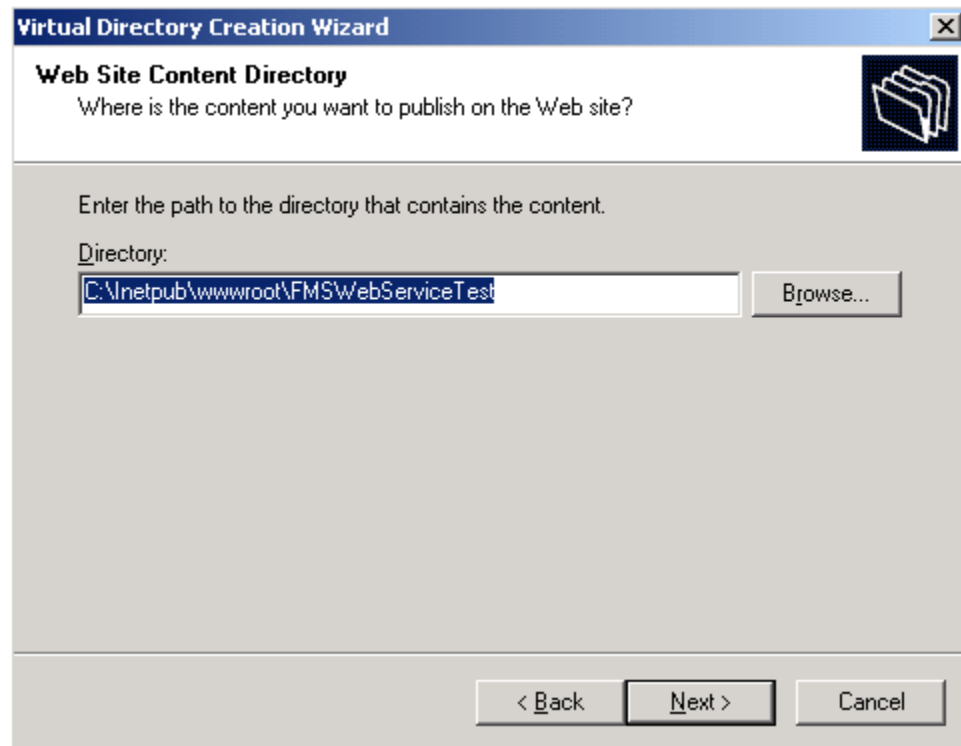
Press **Next>**.
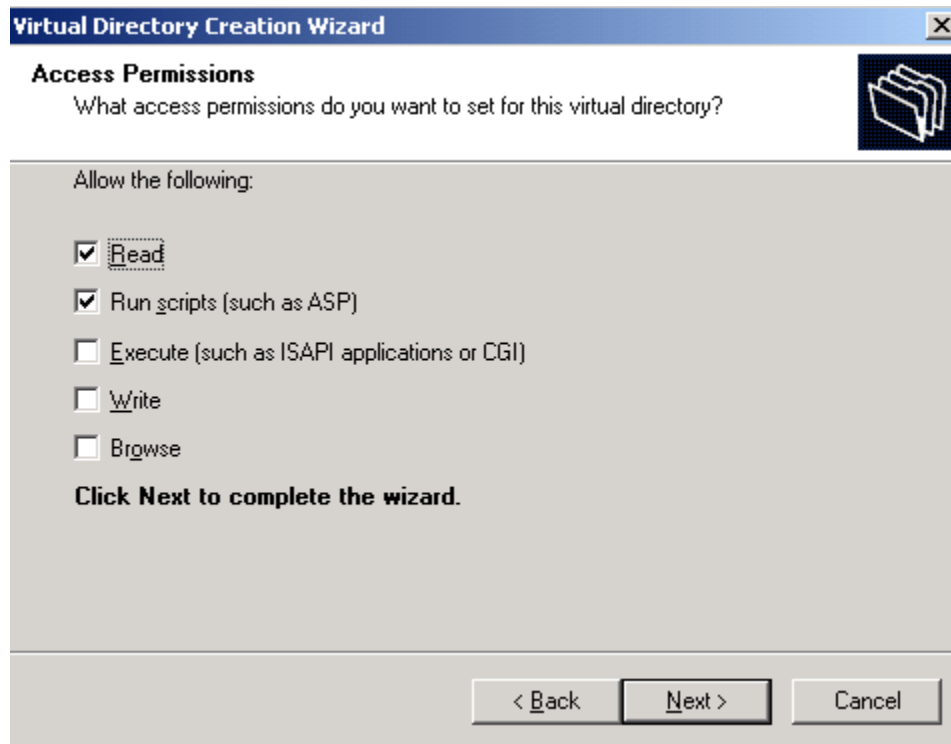
Press **Next>**.
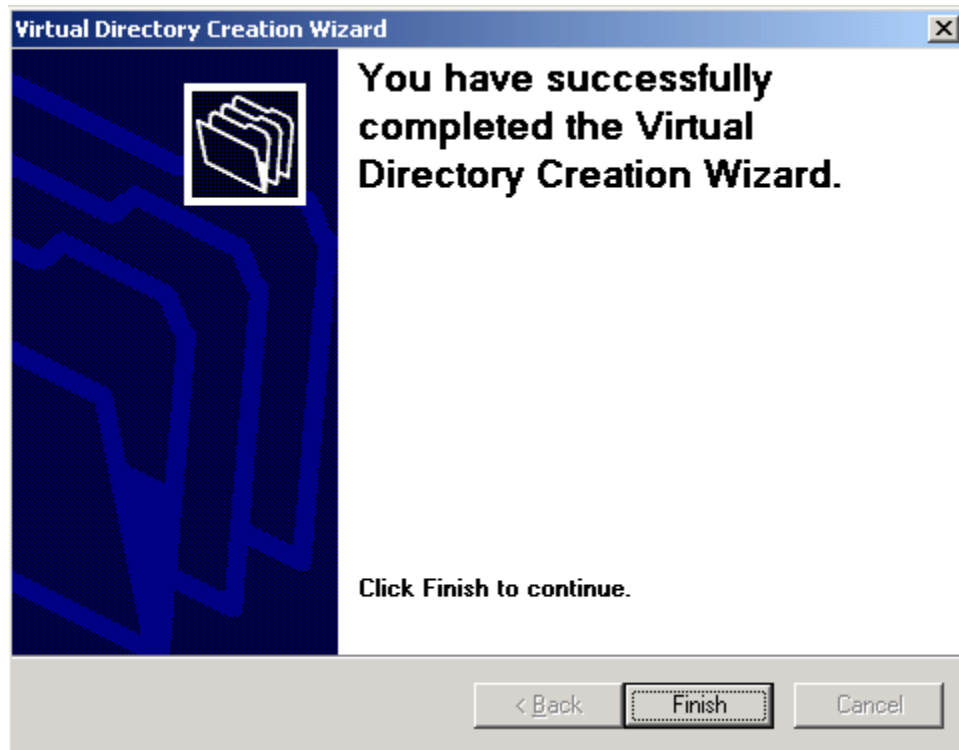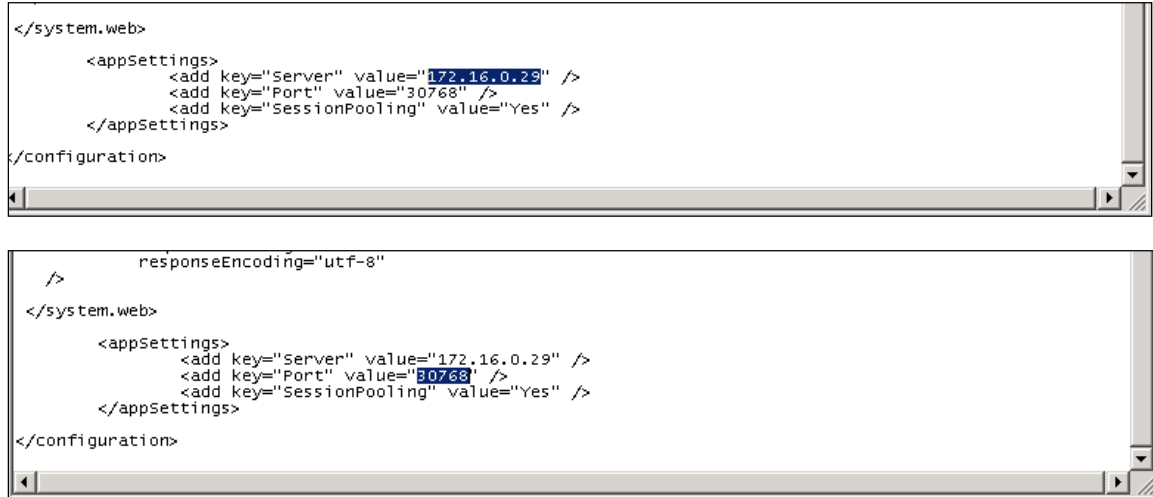
Press **Finish**.

3. Use the XCOPY command to copy the Web Services for the Production Account to the Test Account.
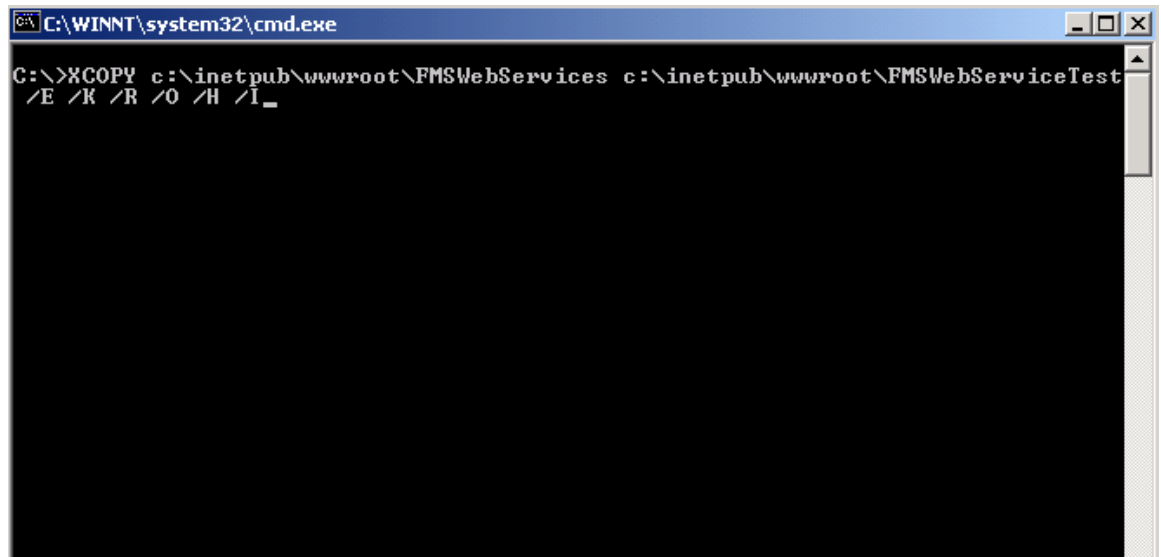
4. Edit the Web.config file on the FMSWebServiceTest directory and change the TCP/IP port and address to that of the FMS Web Services Listener on the Test Account.

```
</system.web>

        <appSettings>
                <add key="Server" value="172.16.0.29" />
                <add key="Port" value="30768" />
                <add key="SessionPooling" value="Yes" />
        </appSettings>

</configuration>
```

```
                        responseEncoding="utf-8"
    />
  </system.web>

        <appSettings>
                <add key="Server" value="172.16.0.29" />
                <add key="Port" value="30768" />
                <add key="SessionPooling" value="Yes" />
        </appSettings>

</configuration>
```

Upgrades to Web Services

When FMS is upgraded, there may be enhancements made to Web Services which require them to be upgraded. You will be notified in the event that this is a required upgrade.

When you are informed that a Web Service being used has been enhanced, you will receive a new FMS Web Services Installation. When run, it will upgrade the Web Services. You will not be required to uninstall and reinstall. Use the procedure described in the previous section, *Install the Web Service*, to upgrade the Web Services.

Note that when Web Services are upgraded, it may be required that any consumer of the Web Services regenerate proxy code. You will only be required to regenerate proxy code for the Web Services that have been enhanced if the enhancement is required, or if you want to use the enhancement. For example, if you are using the Account Authorization Web Service and the Add Field Code Web Service, and you are informed that the Account Authorization Web Service has been enhanced, and the enhancement is required, you will be required to regenerate proxy code for the Account Authorization Web Service. However, you will not be required to regenerate proxy code for the Add Field Code Web Service.

Upgrade Considerations When a Second Web Service Exists

Upgrading Web Services for a Test Account on a different Web Server then that of the Production Account

Run the new installation to upgrade the test account Web Services.

Installing Web Services for the Test Account on the same Web Server as that of the Production Account

When a second Web Services has been installed for a test account on the same server as production, the upgrade cannot be run on the Web Services for the test account. The upgrade can only be run if an install was used to install the software.

If both the production and test Web Services are being upgraded at the same time, the test Web Service can be deleted, and the upgrade run on the production Web Services. A new test Web Services can then be created following the directions in *Install a Second Web Service for a Test Account*.

However, if only the test Web Services is to be upgraded, two options are available.

1. Remove the test Web Services and uninstall the production Web Services. Then use the older install to create the test Web Services. Use the instructions in *Install a Second Web Service for a Test Account* to actually build the production Web Services. Use the upgrade to upgrade the test Web Services.

2. Modify the web.config on the Test account to point to the Production account. Then, upgrade the original Web Services. Modify the web.config to now point to the Test account. Basically, what was the test Web Services is now the production Web Services. What was the Production Web Services is now the Test Web Services.

   Using this method of upgrading the Test service and not the production service can cause confusion if the original test Web Services was named using the word "test." Careful consideration should be used when naming the second Web Services.

OVERVIEW OF FMS WEB SERVICES

Introduction

This document describes FMS functionality which has been made available using Web Services. The web services can be used to do things such as, adding field codes, authorizing accounts, and posting transactions in the document systems or ledgers.

This document describes in detail the SOAP request and response messages, which the Web Service consumer will be using. At present, this document only contains the description for the following Web Services, more content will be generated as other services are completed.

- Account Authorization

- General Ledger Actuals Batch Creation

- General Ledger Multiple Budget Batch Creation

- General Ledger Single Budget Batch Creation

- Add FMS Field Code

- Add Accounts Payable/Purchasing Vendor

- Modify Accounts Payable/Purchasing Vendor

- Purchasing Batch Creation

- Accounts Payable Batch Creation

- Add Accounts Receivable Customer

- Modify Accounts Receivable Customer

- Accounts Receivable Batch Creation

- Add Purchasing Item

- Modify Purchasing Item

- Add Accounts Receivable Item

- Modify Accounts Receivable Item

- General Ledger Funds Check Inquiry

o   Batch Inquiry

SOAP stands for *Simple Object Access Protocol*, a lightweight XML-based messaging protocol used to encode the information in Web service request and response messages before sending them over a network.

FMS Web Services runs on an IIS Server and is developed in the ASP.NET framework.

Web Service Messaging

The Web Service consumer will initiate FMS processing by sending a SOAP request message. The message will contain authentication information along with the input for the particular FMS transaction to process. The consumer will receive a SOAP response message which will have comprehensive status information for FMS transaction processing.

We are using .NET SOAPExtensions to validate the SOAP Request Message against an XML Schema. If the message fails validation, we will send the consumer status information indicating an invalid request message was sent. As a courtesy, we will make the XML Schema available to the Web Service consumer and encourage them to validate their request messages.

The SOAP Request Message

The SOAP request message for all FMS Web Methods will contain several standard parameters along with parameters that are specific to the Web Service being consumed. The parameters specific to the individual Web Service would be things such as the account number, data file, and data type for a Web Service, which performs account authorizations. This information is described for each Web Service later in this document.

The standard parameters for all FMS Web Services are the following:

> **FMSUser.** The FMS user name.

> **FMSPassword1.** The first of three FMS passwords.

> **FMSPassword2.** The second of three FMS passwords (not normally used).

> **FMSPassword3.** The third of three FMS passwords (not normally used).

> **Ledger.** The target ledger for logon (i.e., FMSGL).

The ledger is used along with the FMS user to verify that the Web Service consumer has the appropriate access rights within FMS to use this service and also is used to perform other security checks, such as making sure that a user has appropriate security to access a particular account number, for example.

- ➢ **OSUser.** The user name for logon to the server where FMS processing will be performed. This field along with the OSPassword is optional. If this field is omitted, the OSPassword must also be omitted. If they are omitted, they must be profiled in the Web Service configuration file.

- ➢ **OSPassword.** The password for the user. This field along with the OSUser is optional. If this field is omitted, the OSUser must also be omitted. If they are omitted, they must be profiled in the Web Service configuration file.

The SOAP Response Message

The SOAP response message for each Web Service will contain detailed status information describing the result of the FMS transaction processing. This information will be specific to the Web Service being consumed. This information is described for each Web Service later in this document.

Also in the SOAP response message, there is an integer result, which is common to all FMS Web Services. This value indicates the overall processing status of the Web Service. This is the first status value that the Web Service Consumer needs to check when the response message is received. If this status value indicates anything other than "Success," the remainder of the status information in the SOAP response is invalid. The possible values of the web service result are the following:

0 Success.

1 Failure due to invalid FMS user/password.

2 Failure due to invalid FMS server logon user/password.

3 Security failure because the FMS user does not have the capability to use the requested Web Service.

4 Failure due to inability to connect to the MHNet connection listener. Probable reasons would be that the listener service is not running or the required configuration section is missing or invalid in the Web Service configuration file.

5 Failure trying to connect to FMS. Contact MH&Co.

6 Failure in the MHNet server process. Contact MH&Co.

7 The specified output device is not valid. The device must exist in the $DESTINATIONS-OBJECT table.

Web Service Security in FMS

The Web Services are secured in FMS by capability numbers. To use Web Services, the security administrator must turn on the appropriate capability numbers for FMS users. Following are a list of the capability numbers for Web Services.

All three of these capability numbers must be turned on for an FMS user to use any of the Web Services:

- 562   Logon

- 563   Logoff

- 567   Process FMS Command

The following capability numbers turn on the individual Web Services:

- 564   Account Authorizations

- 565   Actuals Batch Creation

- 566   Add Field Code

- 568   Budget Multiple Batch Creation

- 569   Budget Single Batch Creation

- 571   Add PO Item or Modify PO Item

- 572   AR Batch Creation

- 573   Add AR Item or Modify AR Item

- 574   AR Customer Add or AR Customer Modify

- 575   AP Batch Creation

- 576   AP Vendor Add or AP Vendor Modify

- 577   PO Batch Creation

- 586   Funds Check Inquiry

- 587   Batch Inquiry

FMS WEB METHODS

Following are the Web Methods which expose FMS transactions as Web Services.

Account Authorization (AuthorizeAcct Web Method)

The account authorization web service allows you to check an account, data file, data type combination to see if it is authorized to post to a range of periods. This web service wraps FMS transactions built for performing account authorizations for FMS accounts from non-FMS systems. It provides for using a GenCon and/or Workflow Rules for customized edits in the authorization process.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the AuthorizeAcct web method.

```
        .
        .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
AAuthStatus statusRec;
AAuthInput inputRec = new AccountAuthInput();

//Fill the inputRec object with information for the account that
you wish to inquire.
.
.
Result = fms.AuthorizeAcct(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Account Authorization SOAP Request

```
POST /FMSWebServices/FMSWebServices.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://www.contentmaster.com/FMSServices/AuthorizeAcct"

<?xml version="1.0" encoding="utf-8"?>
```

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AuthorizeAcct xmlns="http://www.contentmaster.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <AccountAuthInput>
        <Account>string</Account>
        <DataFile>string</DataFile>
        <DataType>string</DataType>
        <BeginningPeriod>string</BeginningPeriod>
        <BeginningYear>string</BeginningYear>
        <EndingPeriod>string</EndingPeriod>
        <EndingYear>string</EndingYear>
        <Pattern>string</Pattern>
        <AutoStat>boolean</AutoStat>
        <AutoFin>boolean</AutoFin>
        <AutoAddFC>boolean</AutoAddFC>
        <UpdateAuthMaster>boolean</UpdateAuthMaster>
        <CustomEditType>string</CustomEditType>
        <CustomEditID>string</CustomEditID>
        <SecurityAccount>string</SecurityAccount>

        <SecurityAccounts>
         <string>string</string>
         <string>string</string>
        </SecurityAccounts>

        <DoFieldEdits>boolean</DoFieldEdits>
      </AccountAuthInput>
    </AuthorizeAcct>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the fields.

☑ Account. The FMS posting account number for which authorization is to be tested.
The account number must be in normalized form. Fields appear in left to right order
according to the account number format for the ledger. Each field occupies its exact
defined external width in the string. Numeric fields are right justified with leading
zero fill on the defined width. Alphanumeric fields are left justified, uppercase, with
trailing period fill on the defined width. Only posting hierarchies are represented.
Posting hierarchies which are non-display at data entry (i.e., pseudo-coded and
defaulted fields) are represented by blanks for the defined external field width.

☑ DataFile. The FMS data file for which authorization is to be tested. The set of data files available depends on the configuration of the ledger at this site. Left justified, blank filled, uppercase.

☑ **DataType**. The FMS data type for which authorization is to be tested. The set of data types available depends on the configuration of the ledger at this site. Left justified, blank filled, uppercase.

☑ **BeginningPeriod**. The beginning period portion of the range of fiscal periods/fiscal years for which authorization is to be tested. Period 00 represents the opening balance. The maximum fiscal period depends on the configuration of the ledger at the site.

☑ **BeginningYear**. The fiscal year corresponding to the beginning fiscal period. Numeric, in the form CCYY.

☑ **EndingPeriod**. The ending period portion of the range of fiscal periods/years for which authorization is to be tested. Formatted like beginning period. If left blank, this will default to the beginning period.

☑ **EndingYear**. The fiscal year corresponding to the ending fiscal period. Numeric, in the form CCYY. Note that the ending fiscal period/year combination must be greater than or equal to the beginning fiscal period/year. If left blank, this will default to the beginning year.

☑ **Pattern**. The pattern which restricts the means by which authorization can be achieved. In some cases, the pattern also controls additional constraints on individual fields, and controls the manner in which templates are constructed. The pattern contains one character for each posting field in the account structure. Fields appear in the pattern in the same order that they appear in the account number. Characters corresponding to non-display data entry fields should always be blank, as should all positions which do not correspond to posting fields in the account structure.

- The following patterns are special cases:

    o Asterisk ("*") in all display at data entry fields. Automatic account creation is enabled. If there is no authorization record on file for the combination of candidate account, data file and data type, automatic account creation is attempted (without any other authorization tests). See the overview of account authorization for details.

    o "R" in all display at data entry fields. Explicit authorization is required. If there is no authorization record on file for the combination of candidate account, data file and data type, the authorization attempt fails (without any other authorization tests).

- Otherwise, the pattern guides the construction of candidate templates which might authorize the candidate account number. Pattern characters may also restrict the field code values in the candidate account number. Note that patterns in this form are useful only if your site uses template authorizations. In this context, valid pattern characters are:

  - "R" for required field. The candidate template will always contain the field code from the candidate account number.

  - "*" for a field which does not matter for authorization purposes. The candidate template always contains blanks in this field.

  - "+" for a field which does not matter for authorization purposes, but for which the field code in the candidate account number must be non-zero. The authorization check will fail if the field code in the candidate account number is zero. If it is non-zero, the candidate template always contains blanks in this field.

  - "0" (zero). Like "+," except that the field code from the candidate account number must be zero.

  - "C" for a field for which the field code from the candidate account number is to be conditionally included in candidate templates. Candidate templates will be constructed with the field code from the candidate account number, then blanks, then plus (if the input field code is non-zero), in turn.

- ☑ **AutoStat.** Account creation or automatic authorization allowed for statistical data types. "true" allows these functions and "false" denies them. If the pattern permits, the candidate data type is statistical, this flag is "true" and automatic creation is used or a template is found which authorizes the candidate account for any combination of data file and data type, then the account is created or automatically authorized for the candidate combination of data file and data type.

- ☑ **AutoFin.** Account creation or automatic authorization allowed for financial data types. "true" allows these functions and "false" denies them. If the pattern permits, the candidate data type is financial, this flag is "true" and automatic creation is used or a template is found which authorizes the candidate account for any combination of data file and data type, then the account is created or automatically authorized for the candidate combination of data file and data type.

- ☑ **AutoAddFC.** Automatic creation of field codes is permitted. "True" permits automatic creation of field codes and "false" denies it. If the account authorization process is required to check an individual field code, the field code does not exist, the field definition permits automatic creation, and this flag is "true," the authorization succeeds. Posting will later create the field code automatically. Note that this flag also influences the field at a time custom edit support.

☑ **UpdateAuthMaster.** Does updates. "True" causes the authorization server to update the authorization master as if posting were in progress and "false" bypasses this update.

☑ **CustomEditType.** Custom edit type. "N" if there is no custom edit; "G" if the custom edit is a GenCon; or "R" if the custom edit is a rule.

☑ **CustomEditId.** Custom edit identifier. Left justified, blank filled, uppercase. If no custom edit is in use, pass blanks. If custom edit is to be performed by a GenCon, pass the (up to) 16-character GenCon name. If a custom edit is to be performed by a workflow rule, pass the (up to) 60-character auxiliary information portion of the event ID. (The remainder of the event ID is automatically constructed from the ledger name, a capability number of zero, and the fixed work type "$FMSAV.")

☑ **SecurityAccount.** This is the posting security template to be used in performing the account security check. This is in the same format as the account number for which authorization is to be tested, except that field codes must be provided for non-display at data entry fields. The candidate account passes the security test only if each of its field codes summarizes to the corresponding field code in the template. Specify the zero field code in the template to avoid imposing security on that field. Note that non-display at data entry fields are included in the security test. (By the time this test is performed, the authorization server will have completed these fields in the candidate account number by means of pseudo-coding or defaulting, as appropriate.) Most sites specify the zero field code in all security templates for such fields. Check your site policy on this matter before constructing your template. If a security template is used, it is up to the consumer application to make sure that the security template does not violate account security for the FMS logon user used to perform the authorization check specified in the consumer application. If a security template is used, it overrides account security for the FMS logon user. Typically, when a security template is used, it is because it is more stringent (restrictive) than the account security set up for the FMS logon user used in the web service call.

☑ **SecurityAccounts.** This is an array of up to 100 posting security templates to be used in performing the account security check. This array is used instead of the SecurityAccount element if more than one Security Template is to be used for the authorization check. This is in the same format as the account number for which authorization is to be tested, except that field codes must be provided for non-display at data entry fields. The candidate account passes the security test only if each of its field codes summarizes to the corresponding field codes in one of the templates provided. Specify the zero field code in the template to avoid imposing security on that field. Note that non-display at data entry fields are included in the security test. (By the time this test is performed, the authorization server will have completed these fields in the candidate account number by means of pseudo-coding or defaulting, as appropriate.) Most sites specify the zero field code in all security templates for such fields. Check your site policy on this matter before constructing your template. If a

security template is used, it is up to the consumer application to make sure that the security template does not violate account security for the FMS logon user used to perform the authorization check specified in the consumer application. If a security template is used, it overrides account security for the FMS logon user. Typically, when a security template is used, it is because it is more stringent (restrictive) than the account security set up for the FMS logon user used in the web service call.

☑ **DoFieldEdits.** Field at a time custom edit support is enabled. "true" causes field at a time test in support of custom edits (whether or not custom edits are actually in use) and "false" disables this feature. If enabled, the validation server will test each field code in the account number, including pseudo-coded and defaulted fields, for existence. If the field code exists, the server will check to be sure it is a posting code and that it is authorized for the appropriate class of data. Note that this test takes into account the value of the "AutoAddFC" element. If this test is performed, the results are available as part of the overall validation status. Details are available via the field at a time status return value and are also available to the custom edit.

Account Authorization SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AuthorizeAcctResponse
xmlns="http://www.contentmaster.com/FMSServices">
      <AuthorizeAcctResult>int</AuthorizeAcctResult>
      <AccountAuthStatus>
        <Overall>char</Overall>
        <Ledger>char</Ledger>
        <PdYr>char</PdYr>
        <Pattern>char</Pattern>
        <CustEdit>char</CustEdit>
        <DataFile>char</DataFile>
        <Acct>char</Acct>
        <SecTmplt>char</SecTmplt>
        <ErrorSecTemplate>string</ErrorSecTemplate>
        <MiscSetup>char</MiscSetup>
        <FieldComp>char</FieldComp>
        <PreAuth>char</PreAuth>
        <Auth>char</Auth>
        <PostAuth>char</PostAuth>
        <AAuthSubStatus>unsignedShort</AAuthSubStatus>
        <AccountCreated>char</AccountCreated>
        <AuthorizationCreated>char</AuthorizationCreated>
        <CustomStatus>int</CustomStatus>
        <FldStat>
```

```
            <AAuthFieldStatus>
              <FieldPass>char</FieldPass>
              <FCodeExists>char</FCodeExists>
              <PostingCode>char</PostingCode>
              <FCAuthorized>char</FCAuthorized>
              <Reserved1>char</Reserved1>
              <Reserved2>char</Reserved2>
              <AAAuthFailed>char</AAAuthFailed>
              <AAAutoCreateFailed>char</AAAutoCreateFailed>
              <AAAutoCreateFailedAlt>char</AAAutoCreateFailedAlt>
              <AAAutoCreated>char</AAAutoCreated>
              <AAPatternFailed>char</AAPatternFailed>
              <AAFailedNonPosting>char</AAFailedNonPosting>
              <AAFailedEditMask>char</AAFailedEditMask>
              <Custom1>char</Custom1>
              <Custom2>char</Custom2>
              <Custom3>char</Custom3>
              <Custom4>char</Custom4>
              <Custom5>char</Custom5>
              <Custom6>char</Custom6>
              <Custom7>char</Custom7>
              <CustomFieldStatus>char</CustomFieldStatus>
            </AAuthFieldStatus>
            <AAuthFieldStatus>
              <FieldPass>char</FieldPass>
              <FCodeExists>char</FCodeExists>
              <PostingCode>char</PostingCode>
              <FCAuthorized>char</FCAuthorized>
              <Reserved1>char</Reserved1>
              <Reserved2>char</Reserved2>
              <AAAuthFailed>char</AAAuthFailed>
              <AAAutoCreateFailed>char</AAAutoCreateFailed>
              <AAAutoCreateFailedAlt>char</AAAutoCreateFailedAlt>
              <AAAutoCreated>char</AAAutoCreated>
              <AAPatternFailed>char</AAPatternFailed>
              <AAFailedNonPosting>char</AAFailedNonPosting>
              <AAFailedEditMask>char</AAFailedEditMask>
              <Custom1>char</Custom1>
              <Custom2>char</Custom2>
              <Custom3>char</Custom3>
              <Custom4>char</Custom4>
              <Custom5>char</Custom5>
              <Custom6>char</Custom6>
              <Custom7>char</Custom7>
              <CustomFieldStatus>char</CustomFieldStatus>
            </AAuthFieldStatus>
          </FldStat>
        </AccountAuthStatus>
      </AuthorizeAcctResponse>
  </soap:Body>
</soap:Envelope>
```

- **AuthorizeAcctResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- **AccountAuthStatus.** Following is a description of the fields.

  - ☑ **Overall.** Overall validity. "Y" if all setup steps succeeded, field at a time edits succeeded if enabled, custom pre-authorization edits succeeded, authorization succeeded, and custom post-authorization edits succeeded; and "N" if any of the above failed.

  - ☑ **Ledger.** Ledger validity. "Y" if ledger is valid and "N" if not.

  - ☑ **PdYr.** Fiscal period/year range validity. "Y" if the fiscal period/year range is valid; "N" if not; and " " if unable to validate because ledger was invalid.

  - ☑ **Pattern.** Pattern validity. "Y" if the pattern contains only valid characters; "N" if the pattern contains invalid character(s); and " " if unable to check because ledger is invalid.

  - ☑ **CustEdit.** Custom edit validity. "Y" if no custom edit is specified or if the custom edit can be loaded successfully; and "N" if unable to load the specified custom edit.

  - ☑ **DataFile.** Data file validity. "Y" if data file is valid; "N" if it is not; and " " if unable to check because ledger was invalid. Normally, the data file is validated by the FMS application invoking authorization testing. We provide for it here as a courtesy to non-FMS applications. Note that data type is validated (as much as necessary) by the authorization step.

  - ☑ **Acct.** Candidate account number validity. "Y" if pseudo-coding or defaulting was not required or succeeded; "N" if pseudo-coding or defaulting failed; and " " if not attempted because ledger was invalid.

  - ☑ **SecTmplt.** Security template validity. "Y" if security template is valid in every field; "N" if at least one field in the template contains an invalid field code; and " " if not attempted because ledger was invalid.

  - ☑ **ErrorSecTemplate.** This field is relevant only if the SecurityAccounts array is used in the request message to send multiple security templates used in the authorization check. In this case, if a security template is not valid, the SecTmplt flag will be "N" and this field will contain the bad security template.

  - ☑ **MiscSetup.** Miscellaneous setup validity. "Y" if all setup was successful and the account authorization was performed. "N" if any setup error listed above

occurred. Note that if this status value is "N," no further validation processing occurs.

☑ **FieldComp.** Field at a time composite validity. "Y" if field at a time custom edit support is disabled or if it is enabled and all fields passed; "N" if field at a time custom edit support is enabled and at least one field failed; and " " if not attempted because ledger is invalid. If attempted, more detailed status information is returned in field at a time custom edit support sub status.

☑ **PreAuth.** Pre-authorization edit status. "Y" if custom pre-authorization edits succeeded; "N" if they did not; and " " if not attempted because of setup errors. If attempted, additional information is returned in custom sub status. Success or failure of the pre-authorization edits can, but need not, influence whether or not the server attempts authorization and post-authorization edits.

☑ **Auth.** Authorization status. "Y" if authorization succeeded; "N" if it did not; and " " if not attempted because of setup or pre-authorization edit errors. If authorization was attempted, additional information is returned in the authorization sub status. Success or failure of authorization does not influence whether or not the server attempts post-authorization edits. However, the custom edit has access to the authorization result and can choose not to complete its edits.

☑ **PostAuth.** Post-authorization edit status. "Y" if custom post-authorization edits succeeded; "N" if they did not; and " " if not attempted because of setup or pre-authorization edit errors. If attempted, additional information is returned in custom sub status.

☑ **AAuthSubStatus.** Sub status. If the authorization succeeded, the sub status indicates the manner in which authorization was accomplished.

1 Specific authorization for the candidate account, data file, data type combination was found.

2 Authorization created automatically based on valid, authorized field code in each field, valid data file, and valid data type.

3 Authorized by template for the candidate data file and data type.

4 Automatically authorized based on an existing authorization for the candidate account (or a matching template) and some other data file and data type combination.

If the authorization failed, the sub status indicates the precise reason for failure.

1 Account, data file, data type combination is explicitly not authorized.

2   Parameters require explicit authorization, but no authorization record was found.

3   Account requires automatic creation, but data type is invalid.

4   Account is not authorized and one or more field codes violate the pattern constraints.

5   Template, data file, data type combination is explicitly not authorized.

6   Account, data file, data type combination is not authorized by account or by template and parameters do not allow automatic authorization.

7   Account, data file, data type require automatic authorization, but data type is invalid.

8   Account, data file, data type require automatic authorization, but no template matching the account is authorized for anything.

9   At least one of the field codes which authorization was forced to check is not authorized for this class of data file.

10   At least one field code requires automatic creation, but the field definition does not permit it or the field code already exists in an alternate hierarchy.

11   At least one field code requires automatic creation, but the parameters do not permit it.

12   Security test failed.

13   Authorization was granted, but an internal error prevented field code, account or authorization updates. This status is not possible unless the caller requests updates. This should never occur in non-FMS applications.

14   At least one field code requires automatic creation, but the field code in the candidate account does not match the edit mask for the field.

☑ **AccountCreated.** Account master entry created. "Y" if an account master entry was created; "N" if not. Cannot be "Y" unless updates were requested, which should not occur for non-FMS applications.

☑ **AuthorizationCreated.** Authorization entry created. "Y" if an authorization entry was created; "N" if not. Cannot be "Y" unless updates were requested, which should not occur for non-FMS applications.

Following is a description of the fields. These fields indicate the status for the field code edits for the account. AuthFieldStatus is an array of 12, one for each of the 12 possible posting fields in the account. The status array is in the order that the fields appear in the account.

- ☑ **Field at a time custom edit support substatus.** If field at a time support for custom edits is enabled, the following flags contain detailed status about each field code in the account. If not, blanks are returned for these flags.

  - **FieldPass.** Field passes. "Y" if the field code in this field passes all individual field edits; "N" if it does not; and " " if this group does not represent a field in the account structure.

  - **FCodeExists.** Field code exists. "Y" if it does; "N" if it does not (and automatic creation was not requested or is not enabled for this field); "C" if the field code will be automatically created; and " " if this group does not represent a field in the account structure.

  - **PostingCode.** Field code is a posting code. "Y" if it exists and is a posting code; "N" if it does not exist and cannot be automatically created or exists and is not a posting code; "C" if it does not exist, but will be created as a posting code; and " " if this group does not represent a field in the account structure.

  - **FCAuthorized.** Field code is authorized for the specified class of data. "Y" if it exists and is authorized; "N" if it does not exist and cannot be automatically created or if it exists and is not authorized; "C" if it does not exist, but will be created and authorized; and " " if this group does not represent a field in the account structure.

- ☑ **Individual field status.** The following flags contain detailed information for each posting field for account authorization. Note that all posting fields are represented, whether or not they are displayed at data entry time. (That is, pseudo-coded and defaulted fields are included.) The flags for a particular field are relevant only if the authorization logic found it necessary to examine the field individually. Of the status flags which are not reserved, only the "AAAutoCreated" status flag refers to a successful authorization; all others refer to specific failure causes.

  - **Reserved1.** Reserved.

  - **Reserved2.** Reserved.

  - **AAAuthFailed.** "Y" if the field code in this field was validated individually and failed the authorization check; "N" otherwise.

  - **AAAuthCreateFailed.** "Y" if automatic creation of the field code in this field was required, but forbidden; "N" otherwise.

- **AAAuthCreateFailedAlt.** "Y" if automatic creation of the field code in this field was attempted, but failed due to a conflict with an alternate hierarchy; "N" otherwise.

- **AAAutoCreated.** "Y" if a field code was automatically created; "N" if not. Can be "Y" only if updates are enabled, which should not happen in non-FMS applications.

- **AAPatternFailed.** "Y" if the field code failed a zero/non-zero constraint imposed by the pattern; "N" otherwise.

- **AAFailedNonPosting.** "Y" if the field code fails authorization because it is not a posting code; "N" otherwise.

- **AAFailedEditMask.** "Y" if the field code does not match the edit mask for the field; "N" otherwise.

- **Custom1 thru 7.** Reserved for expansion.

- **CustomFieldStatus.** Custom field code status information returned from rule or GenCon processing.

Actuals Batch Creation (CreateActualsBatch Web Method)

This web service will create and optionally post an actuals batch. The SOAP request message is structured to have the batch header information following by an array of journals. Within each journal is an array of transactions. Following is a detailed description of the request and response messages for the Web Service.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the CreateActualsBatch web method.

```
        .
        .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
string Outputdevice = "DISK";
int Result;
ActualsBatchStatus statusRec;
ActualsBatch inputRec = new ActualsBatch();

//Fill the inputRec object with information for the account that
you wish to inquire.
.
.
Result = fms.CreateActualsBatch(FMSUser, FMSPassword1,
FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Actuals Batch Creation SOAP Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Body>
    <CreateActualsBatch xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
```

```
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <BatchInput>
        <BatchType>string</BatchType>
        <BatchNo>int</BatchNo>
        <User>string</User>
        <Period>string</Period>
        <Year>string</Year>
        <FinCtl>decimal</FinCtl>
        <DebitCtl>decimal</DebitCtl>
        <StatCtl>decimal</StatCtl>
        <HashCtl>decimal</HashCtl>
        <JournalCtl>int</JournalCtl>
        <TxCtl>int</TxCtl>
        <Gencon>string</Gencon>
        <OutputDevice>string</OutputDevice>
        <UnconditionalUpdate>boolean</UnconditionalUpdate>
        <SubmitType>string</SubmitType>
        <Reverse>string</Reverse>
        <RptHdr1>string</RptHdr1>
        <RptHdr2>string</RptHdr2>
        <DepositID>string</DepositID>
        <DepositDate>string</DepositDate>
        <IfCorrect>string</IfCorrect>
        <IfEditErrors>string</IfEditErrors>
        <IfInvalidTotals>string</IfInvalidTotals>
        <Journal>
          <ActualsJournal>
            <JournalId>string</JournalId>
            <Reverse>boolean</Reverse>
            <Desc1>string</Desc1>
            <Desc2>string</Desc2>
            <Td xsi:nil="true" />
          </ActualsJournal>
          <ActualsJournal>
            <JournalId>string</JournalId>
            <Reverse>boolean</Reverse>
            <Desc1>string</Desc1>
            <Desc2>string</Desc2>
            <Td xsi:nil="true" />
          </ActualsJournal>
        </Journal>
      </BatchInput>
    </CreateActualsBatch>
  </soap:Body>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in the *Actuals Batch Creation SOAP Response* section.

- Following is a description of the fields.

☑ **BatchType (Required).** The two-character uppercase alphabetic batch type. Combination of Batch Type and target ledger must exist in the $BATCH-TYPE-OBJ table.

☑ **BatchNo (Required/Optional).** Six-character, right justified, zero filled. Required if batch type is not set up for auto-numbering. If batch type is auto-numbering, this field should be blank or zero. If the batch type requires a manual number, this is the batch number for the batch.

☑ **User (Required).** Twenty-four characters, left justified, space filled. Represents the external posting User field code for this batch. All account numbers used in this batch must be for this user.

☑ **Period (Required).** Two-character, right justified, blank filled. (Valid period range is 00–14 or 00 through number of fiscal periods for the target ledger.)

☑ **Year (Required).** The year to post to. This can be left blank and defaulted for the user. Four-character fiscal year in CCYY format.

☑ **FinCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for financial control, this is the financial control total for the batch.

☑ **DebitCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for debit control, this is the debit control total for the batch.

☑ **StatCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for statistic control, this is the control total for non-financial transactions in the batch.

☑ **HashCtl (Required/Optional).** Specifies a non-financial control total associated with the account numbers entered in the batch. A specified number of digits of the account number is the basis of this field's value. The system adds the value of these digits for each entered transaction.

☑ **JournalCtl (Required/Optional).** Specifies the number of journals which comprise the batch. This is applicable only if the batch type uses journals. A new journal can be created at any time during transaction entry.

☑ **TxCtl (Required/Optional).** If the batch type is configured for transaction control, this specifies the total number of transactions to be entered in the batch.

☑ **GenCon (Optional).** The GenCon to be used for customized account number processing and validation. If a value is entered, it will override the GenCon on the batch type. GenCons are custom business rules that are developed by Mitchell

Humphrey for specific uses within an organization. If a data entry GenCon applies, it can be specified here or on the batch type definition.

- ☑ **OutputDevice (Optional).** If the batch is to be posted and the default output device is not desired, this is the output device for the posting report.

- ☑ **UnconditionalUpdate (Optional).** If "true," create or post the batch (according to the configuration of the $BT-POST-EXTIF batch type configuration) even if there are edit errors. If "false," delete the batch if there are any edit failures creating the batch. Note that if the batch contains no transactions, it will be deleted no matter what the value of this flag is.

- ☑ **SubmitType (Optional).** If the batch is to be posted (i.e., the $BT-POST-EXTIF batch type flag is "Y"), this indicates how the batch is to be posted in FMS. If "S," the batch is to be posted synchronously. In this case, if the Web Service is running synchronously, control will not be returned to the Web Service Consumer until the batch is posted. If "B," the batch will be posted background and control will be returned to the Web Service Consumer without waiting for posting to complete.

- ☑ **Reverse (Optional).** Reverse transaction amount in the prior period when the transaction is posted. If "Y," all transactions for the batch will be reversed in the prior period. If "O," the "Reverse" field for each journal will be checked to see if the transactions for that journal should be reversed. If "N," the transactions will not be reversed in the prior period.

- ☑ **RptHdr1 (Optional).** This is a 50-character description field that will be placed on the batch control record.

- ☑ **RptHdr2 (Optional).** This is a 50-character description field that will be placed on the batch control record.

- ☑ **DepositID (Optional).** This is the 8-character deposit ID that is used for miscellaneous deposit batches. This is recommended for Miscellaneous Deposits. If Deposit ID is not provided, the Batch ID will be placed on the Master Bank Register and the generated Cash Batch during ledger posting.

- ☑ **DepositDate (Optional).** This is the deposit date that is used for miscellaneous deposit batches.(CCYY-MM-DD). It is recommended for Miscellaneous Deposits. If not provided, it will be defaulted on the Master Bank Register to the transaction reference date during ledger posting.

- ☑ **IfCorrect (Optional).** This determines what happens when the batch is correct (control totals if defined and no edit errors). If present, it overrides $BT-POST-EXTIF. Possible values are as follows.

- O - Post the batch regardless of the value of $BT-POST-EXTIF.

- R - Retain the batch regardless of the value of $BT-POST-EXTIF. The batch status is determined by $BF1-MARK-STS-AT-CMP.

- D - Delete the batch. This gives an external interface developer the option of validating a batch without actually updating the ledger.

- P - Process the batch according to $BT-POST-EXTIF. This is the default value and is equivalent to omitting IfCorrect.

☑ **IfEditErrors (Optional).** This determines what happens when the batch has at least one edit error, regardless of the validity of control totals, if any. If present, this overrides <UnconditionalUpdate> if it is also present.

- R - Retain the incorrect batch unconditionally. The batch status should be set to I.

- D - Delete the incorrect batch unconditionally.

- P - Process the batch according to the presence/absence/value of <UnconditionalUpdate> and the value of $BT-POST-EXTIF. This is the default value and is equivalent to omitting <IfEditErrors>.

☑ **IfInvalidTotals (Optional).** This determines what happens when the batch has no edit errors, control totals are in use, and at least one control total is invalid (incorrect). If present, this overrides the default action (retain with status of I) for a batch in this condition.

- R - Unconditionally retain the batch with a status of I (invalid).

- D - Unconditionally delete the batch.

- P - Retain the batch with a status of I (invalid). This is the default value and is equivalent to omitting <IfInvalidTotals>.

- **Journal.** Journal is an array within BatchInput. There will be one instance of the array for each journal in the batch. The following fields are in the Journal.

  ☑ **JournalId (Required).** This is the numeric journal ID.

  ☑ **Desc1 (Optional).** Description associated with the journal (up to any 40 printable characters).

☑ **Desc2 (Optional).** Description associated with the journal (up to any 40 printable characters).

☑ **Reverse (Optional).** This field is only meaningful when the "Reverse" field in the batch header is "O." In this case, if "true," all transactions for the journal will be reversed in the prior period.

- **Td.** Td is an array within the Journal. There will be one instance of the array for each transaction in the journal.

  ☑ **Account (Required).** Up to sixty characters. The account number to post to. The account number must be in normalized form. Fields appear in left to right order according to the account number format for the ledger. Each field occupies exactly its defined external width in the string. Numeric fields are right justified with leading zero fill on the defined width. Alphanumeric fields are left justified, uppercase, with trailing period fill on the defined width.

  ☑ **DataType (Required).** Specifies the type of data (i.e., financial or statistical) to be associated with each entry. This value must be a valid data type defined for this system. The default value is FFF (financial). If the drop-down arrow is chosen, the system lists all valid data types for this system.

  ☑ **SuspenseId (Optional).** The suspense ID for the transaction if the transaction is to correct a suspense entry.

  ☑ **Amount (Required).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If no decimal point provided in input, assumes two decimal positions.

  ☑ **RefId (Optional).** The reference ID of the transaction. Any printable twenty characters.

  ☑ **RefDate (Optional).** The reference date of the transaction (CCYY-MM-DD).

  ☑ **Comment (Optional).** This is an 80-character comment to be associated with the transaction.

  ☑ **RefDate (Optional/Required).** The reference date of the transaction (CCYY-MM-DD). This field is required if the UseBankRecFields is "Y."

  ☑ **UseBankRecFields(Optional).** This is a one-character flag to specify if the Bank Rec Fields are being used. Values are "Y" and "N"/blank. If the value is "Y," then the batch type must be one of the special bank reconciliation batch types ($BT-GL-MISC-TYPE = "P," "D," or "T").

☑ **BRBank (Optional/Required).** This is a four-character bank field. This field is required if the UseBankRecFields value is "Y." The bank must exist in the $AP-BANK table. The FMSAP system to use is defined in the batch type in the $BT-GL-AP-SYSTEM field.

☑ **BRRefType (Optional/Required).** This is a two-character reference type field. This field is required if the UseBankRecFields is "Y." This reference type must exist in the $BR-REF-TYPE table ($REF-BANK path) for the bank, for the Bank's Master bank, or with no bank (spaces). Also, once the reference type definition is found, then the following edit needs to be performed.

- If the batch type's $BT-GL-MISC-TYPE field is a "P, then the $BR-ALLOW-PMT-ENTRY must by a "Y" on the $BR-REF-TYPE table.

- If the batch type's $BT-GL-MISC-TYPE field is a "D," then the $BR-ALLOW-DEP-ENTRY must by a "Y" on the $BR-REF-TYPE table.

- If the batch type's $BT-GL-MISC-TYPE field is a "T," then the $BR-ALLOW-TXR-ENTRY must be a "Y" on the $BR-REF-TYPE table.

☑ **BRRefID (Optional).** This is an 18-character free form reference ID.

☑ **BRPayName (Optional).** This is a 30-character free form payment name.

☑ **BRComment (Optional).** This is a 30-character free form reconciliation comment.

Actuals Batch Creation SOAP Response

```
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Body>
    <CreateActualsBatchResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <CreateActualsBatchResult>int</CreateActualsBatchResult>
      <BatchStatus>
        <Overall>string</Overall>
        <BatchType>string</BatchType>
        <BatchCtl>string</BatchCtl>
        <User>string</User>
        <BatchId>string</BatchId>
        <PdYr>string</PdYr>
        <Gencon>string</Gencon>
        <FinCtl>string</FinCtl>
        <DebitCtl>string</DebitCtl>
        <StatCtl>string</StatCtl>
        <JournalCtl>string</JournalCtl>
        <TxCtl>string</TxCtl>
        <HashCtl>string</HashCtl>
        <Posted>string</Posted>
        <OutputDevice>string</OutputDevice>
        <Journals>string</Journals>
        <DepositDate>string</DepositDate>
        <IfCorrect>string</IfCorrect>
        <IfEditErrors>string</IfEditErrors>
        <IfInvalidTotals>string</IfInvalidTotals>
        <JournalStatus>
          <ActualsJournalStatus>
            <Overall>string</Overall>
            <Transactions>string</Transactions>
            <TdStatus xsi:nil="true" />
          </ActualsJournalStatus>
          <ActualsJournalStatus>
            <Overall>string</Overall>
            <Transactions>string</Transactions>
            <TdStatus xsi:nil="true" />
          </ActualsJournalStatus>
        </JournalStatus>
      </BatchStatus>
    </CreateActualsBatchResponse>
  </soap:Body>
</soap:Envelope>
```

- **CreateActualsBatchResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- Following is a detailed description of the fields and their values.

  - ☑ **Overall.** This is the overall status of actuals batch creation. If this value is "Y," the creation of the actuals batch was successful and the batch was posted or closed as requested by the input flags.

  - ☑ **BatchType.** This is the edit status of the batch type. A "Y" value means edits were successful. A " " value means that it was not edited due to "CreateActualsBatchResult" not being successful. If there is an edit failure on batch type, no further edits are performed because of processing dependencies. Edit failure values follow.

    - ➢ "1" The batch type does not exist.

    - ➢ "2" The batch type format is not for an actuals batch.

    - ➢ "3" The batch type is not for interactive batch creation.

    - ➢ "4" The bank reconciliation batch type cannot be processed in Web Services ($BT-GLMISC-TYPE = "B" or "G").

  - ☑ **BatchCtl.** This is the edit status of the batch control. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If batch control edits fail, no further edits are performed for the batch.

    - ➢ "1" If batch already exists. This can happen when manual batch numbering is used and the entered ID already exists.

    - ➢ "2" The batch number was not entered (or zero) and the batch type cannot auto number.

    - ➢ "3" The batch number was supplied and the batch type is set to auto number.

  - ☑ **User.** This is the edit status of the user. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If user edits fail, no further edits are performed for the batch.

    - ➢ "N" The User field was left blank and is required.

    - ➢ "1" The User was entered, but does not exist.

➢ "2"   User security failure for the entered user field.

➢ "3"   Cannot post to the entered user field code.

☑ **BatchId.** When actuals batch creation is successful, this is the batch ID of the batch that was created.

☑ **PdYr.** This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

➢ "1"   The period is closed and the batch type prohibits posting to closed periods.

➢ "2"   The period is a future period and batch type prohibits posting to future periods.

➢ "3"   The period is not in the period range for the ledger.

➢ "4"   The sequence control entry is missing.

➢ "5"   The closing control entry is missing.

☑ **GenCon.** This is the edit status of the GenCon. A "Y" value means edits were successful. A " "value means that it was not edited. Edit failure values follow.

➢ "1"   The entered GenCon does not exist.

➢ "2"   The GenCon entered is not a data entry GenCon and must be.

➢ "3"   No GenCon was supplied and one is required by the batch type.

☑ **FinCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢ "N"   Control total was required, but not entered.

➢ "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **DebitCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢ "N"   Control total was required, but not entered.

➢   "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **StatCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢   "N"   Control total was required but not entered.

➢   "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **JournalCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢   "N"   Control total was required, but not entered.

➢   "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **TxCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢   "N"   Control total was required, but not entered.

➢   "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **HashCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢   "N"   Control total was required, but not entered.

➢   "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **Posted.** This is the posting status if the batch was successfully created. This field is only significant if the "Overall" flag for the batch indicates success. Values for the posting field follow.

➢   "S"   The batch was submitted for posting synchronously.

➢   "B"   The batch was submitted for posting background.

➢   "V"   The batch was closed and set to "valid" status.

➢   "R"   The batch was closed and set to "released" status.

➢ "I" The batch was closed and set to "invalid" status due to having invalid control totals.

➢ "D" The batch was deleted due to edit errors during batch creation.

☑ **OutputDevice.** This is the edit status of the output device. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure value follows: "N" means that the entered output device is not valid.

☑ **DepositDate.** This is the status of the deposit date if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid deposit date was entered.

☑ **IfCorrect.** This is the status of the IfCorrect batch disposition if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

☑ **IfEditErrors.** This is the status of the IfEditErrors batch disposition if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

☑ **IfInvalidTotals.** This is the status of the IfInvalidTotals batch disposition if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

• Following is a description of the status fields in JournalStatus. ActualsJournalStatus is an array. There is one instance for each instance in the ActualsJournal array in the SOAP request message and contains the status information for the corresponding instance.

☑ **Overall.** This is the overall status for this Journal. A "Y" value means edits were successful for the Journal and all transactions in the journal. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors. Other possible status values include:

➢ "1" Journal ID is required and was omitted.

➢ "2" Journal ID is limited to 10 digits.

➢ "3" Journal ID must be a numeric value.

➢ "4" Journal ID cannot be all zeros.

➤ "5"   A duplicate journal ID exists in the batch.

☑ **Transactions.** This is the edit status or the transactions for this journal. A "Y" value means that all transactions passed edits. If one or more transactions had an edit failure, this value is "N." A " " value means that it was not edited.

- Following is a description of the status fields in TdStatus. ActualsTransactionStatus is an array. There is one instance for each instance in the ActualsTransaction array in the SOAP request message and contains the status information for the corresponding instance.

☑ **Overall.** This is the overall status for this transaction. A "Y" value means edits were successful for the transaction. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors.

☑ **Rule.** This is the status for the rule which is processed just prior to putting the transaction into the batch. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors and the rule disqualified this transaction for entry into the batch.

☑ **DataType.** This is the status of the data type. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that an invalid data type was entered.

☑ **RefDate.** This is the status of the reference date. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that an invalid reference date was entered. A "1" value means this field is required for a Bank Rec Miscellaneous Batch.

☑ **Suspense.** This is the overall status for this suspense entry if one is entered. A "Y" value means edits were successful for the suspense entry. A " " value means that it was not edited due to previous edit failure. Unsuccessful edit failure values follow.

➤ "N"   The suspense entry does not exist.

➤ "1"   The data type does not match that for the suspense entry.

➤ "2"   The data file does not match that for the suspense entry.

➤ "3"   The period/year does not match that for the suspense entry.

➤ "4"   The user does not match that for the suspense entry.

➤ "5"   The amount does not match that for the suspense entry.

☑ **GenCon.** This is the status of the GenCon. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means there was an edit failure in the GenCon processing.

☑ **Account.** This is the status of the account edits. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. Unsuccessful edit failure values follow.

  ➢ "1" The account number was left blank and is required.

  ➢ "N" There was an edit failure for the account and that the following fields give the details of the edit failure.

☑ **AcctMerge.** This is the status of merging the account number. A "Y" value means the merge was successful. A " " value means the merge was not performed due to prior edit failure. An "N" value means there was a failure merging the account.

☑ **AcctNorm.** This is the status of normalizing the account number. A "Y" value means the operation was successful. A " " value means the operation was not performed due to prior edit failure. An "N" value means there was a failure performing the operation.

☑ **AcctPseudo.** This is the status of pseudo coding and defaulting the account number. A "Y" value means the operation was successful. A " " value means the operation was not performed due to prior edit failure. An "N" value means there was a failure performing the operation.

☑ **AcctUserSec.** This is the status of user security edit for the account number. A "Y" value means the user field code in the account matches the batch user. A " " value means the edit was not performed due to prior edit failure. An "N" value means the user field code on the account number does not match that for the batch.

☑ **AcctAuth.** This is the overall status for account authorization edits. If this is "Y," account authorization succeeded. In this case the following sub status fields for account authorization give the details of the successful authorization. A " "value means that the edit was not performed. An "N" value means that the account authorization failed and the following sub status fields should be check for the details of the failure.

- Following is a detailed description of the account authorization sub status fields.

  ☑ **AAuthSubStatus.** Sub status. If the authorization succeeded, the sub status indicates the manner in which authorization was accomplished.

1   Specific authorization for the candidate account, data file, and data type combination was found.

2   Authorization created automatically based on valid, authorized field code in each field, valid data file, and valid data type.

3   Authorized by template for the candidate data file and data type.

4   Automatically authorized based on an existing authorization for the candidate account (or a matching template) and some other data file and data type combination.

If the authorization failed, the sub status indicates the precise reason for failure.

1   Account, data file, data type combination is explicitly not authorized.

2   Parameters require explicit authorization, but no authorization record was found.

3   Account requires automatic creation, but data type is invalid.

4   Account is not authorized and one or more field codes violates the pattern constraints.

5   Template, data file, data type combination is explicitly not authorized.

6   Account, data file, data type combination is not authorized by account or by template and parameters do not allow automatic authorization.

7   Account, data file, data type requires automatic authorization, but data type is invalid.

8   Account, data file, data type requires automatic authorization, but no template matching the account is authorized for anything.

9   At least one of the field codes which authorization was forced to check is not authorized for this class of data file.

10 At least one field code requires automatic creation, but the field definition does not permit it or the field code already exists in an alternate hierarchy.

11 At least one field code requires automatic creation, but the parameters do not permit it.

12 Security test failed.

13 Authorization was granted but an internal error prevented field code, account or authorization updates. This status is not possible unless the caller requests updates. This should never occur in non-FMS applications.

14 At least one field code requires automatic creation but the field code in the candidate account does not match the edit mask for the field.

☑ **AccountCreated.** Account master entry created. "Y" if an account master entry was created; "N" if not.

☑ **AuthorizationCreated.** Authorization entry created. "Y" if an authorization entry was created; "N" if not.

- Following is a description of the fields in FldStat. These fields indicate the status for the field code edits for the account. LedgerAAFieldStatus is an array of 12, one for each of the 12 possible posting fields in the account. The status array is in the order that the fields appear in the account.

☑ **AAAuthFailed.** "Y" if the field code in this field was validated individually and failed the authorization check; "N" otherwise.

☑ **AAAutoCreateFailed.** "Y" if automatic creation of the field code in this field was required, but forbidden; "N" otherwise.

☑ **AAAutoCreateFailedAlt.** "Y" if automatic creation of the field code in this field was attempted, but failed due to a conflict with an alternate hierarchy; "N" otherwise.

☑ **AAAutoCreated.** "Y" if a field code was automatically created; "N" if not. Can be "Y" only if updates are enabled, which should not happen in non-FMS applications.

☑ **AAPatternFailed.** "Y" if the field code failed a zero/non-zero constraint imposed by the pattern; "N" otherwise.

☑ **AAFailedNonPosting.** "Y" if the field code fails authorization because it is not a posting code; "N" otherwise.

☑ **AAFailedEditMask.** "Y" if the field code does not match the edit mask for the field, "N" otherwise.

☑ **UseBankRecFields.** This is the status of the Use Bank Rec Fields field. A "Y" value means the edits were successful. A "1" value means the bank reconciliation fields are not valid for the batch type. An "N" value means the value is not valid.

☑ **BRBank.** This is the status of the bank field.

- ➤ " " – edit not performed.

- ➤ "1" – Bank is required (it is blank).

- ➤ "N" – Bank is invalid (does not exist).

- ➤ "Y" – Bank is valid.

- ☑ **BRRefType.** This is the status of the Ref Type field.

  - ➤ " " – edit not performed.

  - ➤ "1" – Reference type is required (it is blank).

  - ➤ "2" – Reference type is invalid for batch type.

  - ➤ "N" – Reference type is invalid (does not exist).

  - ➤ "Y" – Reference type is valid.

- ☑ **BRRefID.** This is the status of the reference type field.

  - ➤ " " – edit not performed.

  - ➤ "N" – Reference ID is invalid (it is blank).

  - ➤ "Y" – Reference type is valid.

Budget Multiple Batch Creation (CreateBudgetMBatch Web Method)

This web service will create and optionally post a budget multiple batch. The SOAP request message is structured to have the batch header information following by an array of journals. Within each journal is an array of transactions. Following is a detailed description of the request and response messages for the Web Service.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the CreateBudgetMBatch web method.

```
            .
            .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
BudgetMBatchStatus statusRec;
BudgetMBatch inputRec = new BudgetMBatch();

//Fill the inputRec object with information for the budget batch
that you wish to create.
.
.
Result = fms.CreateBudgetMBatch(FMSUser, FMSPassword1,
FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Budget Multiple Batch Creation SOAP Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Body>
    <CreateBudgetMBatch xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
```

```
        <Ledger>string</Ledger>
        <OSUser>string</OSUser>
        <OSPassword>string</OSPassword>
        <BatchInput>
          <BatchType>string</BatchType>
          <BatchNo>int</BatchNo>
          <User>string</User>
          <BegPd>string</BegPd>
          <EndPd>string</EndPd>
          <Year>string</Year>
          <DataFile>string</DataFile>
          <FinCtl>decimal</FinCtl>
          <DebitCtl>decimal</DebitCtl>
          <StatCtl>decimal</StatCtl>
          <HashCtl>decimal</HashCtl>
          <JournalCtl>int</JournalCtl>
          <TxCtl>int</TxCtl>
          <Gencon>string</Gencon>
          <OutputDevice>string</OutputDevice>
          <UnconditionalUpdate>boolean</UnconditionalUpdate>
          <SubmitType>string</SubmitType>
          <RptHdr1>string</RptHdr1>
          <RptHdr2>string</RptHdr2>
          <IfCorrect>string</IfCorrect>
          <IfEditErrors>string</IfEditErrors>
          <IfInvalidTotals>string</IfInvalidTotals>
          <Journal>
            <BudgetMJournal>
              <JournalId>string</JournalId>
              <Desc1>string</Desc1>
              <Desc2>string</Desc2>
              <Td xsi:nil="true" />
            </BudgetMJournal>
            <BudgetMJournal>
              <JournalId>string</JournalId>
              <Desc1>string</Desc1>
              <Desc2>string</Desc2>
              <Td xsi:nil="true" />
            </BudgetMJournal>
          </Journal>
        </BatchInput>
      </CreateBudgetMBatch>
    </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in *The SOAP Response Message* section.

- Following is a description of the fields in BatchInput.

  - ☑ **BatchType (Required).** Two-character, uppercase alphabetic. Combination of
    the Batch Type and the target ledger. Must exist in the $BATCH-TYPE-OBJ

table. The batch type must be for a multiple budget batch, $BFILE-FMT must equal "BD."

- ☑ **BatchNo (Required/Optional).** Six-character, right justified, zero filled. Required if batch type is not set up for auto-numbering. If batch type is auto-numbering, this field should be blank or zero. If the batch type requires manual number, this is the batch number for the batch.

- ☑ **User (Required).** Twenty-four characters, left justified, space filled. Represents the user field code for this batch. All account numbers used in this batch must be for this user.

- ☑ **BegPd (Required).** The beginning period to post to. This can be left blank and defaulted for the user.

- ☑ **EndPd (Required).** The ending period to post to. This can be left blank and defaulted for the user.

- ☑ **Year (Required).** The year to post to (CCYY format). This can be left blank and defaulted for the user.

- ☑ **DataFile (Required).** Two characters. First character is the letter "B." Second character is a letter from "A" to "Z" signifying target budget file. The budget file must exist in the target system. The FMS data file to post to. The set of data files available depends on the configuration of the ledger at this site. This can be left blank if the data file on the batch type is to be used.

- ☑ **FinCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for financial control, this is the financial control total for the batch.

- ☑ **DebitCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for debit control, this is the debit control total for the batch.

- ☑ **StatCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for statistic control, this is the control total for non-financial transactions in the batch.

- ☑ **HashCtl (Required/Optional).** Specifies a non-financial control total associated with the account numbers entered in the batch. A specified number of digits of the account number is the basis of this field's value. The system adds the value of these digits for each entered transaction.

☑ **JournalCtl (Required/Optional).** Specifies the number of journals which comprise the batch. This is applicable only if the batch type uses journals. A new journal can be created at any time during transaction entry.

☑ **TxCtl (Required/Optional).** If the batch type is configured for transaction control, this specifies the total number of transactions to be entered in the batch.

☑ **GenCon (Optional).** The GenCon to be used for customized account number processing and validation. If a value is entered, it will override the GenCon on the batch type. GenCons are custom business rules that are developed by Mitchell Humphrey for specific uses within an organization. If a data entry GenCon applies, it can be specified here or on the batch type definition.

☑ **OutputDevice (Optional).** If the batch is to be posted and the default output device is not desired, this is the output device for the posting report.

☑ **UnconditionalUpdate (Optional).** If "true," create or post the batch (according to configuration of $BT-POST-EXTIF batch type configuration) even if there are edit errors. If "false," delete the batch if there are any edit failures creating the batch. Note that if the batch contains no transactions, it will be deleted no matter what the value of this flag is.

☑ **SubmitType (Optional).** If the batch is to be posted (i.e., the $BT-POST-EXTIF batch type flag is "Y"), this indicates how the batch is to be posted in FMS. If "S," the batch is to be posted synchronously. In this case, if the Web Service is running synchronously, control will not be returned to the Web Service Consumer until the batch is posted. If "B," the batch will be posted background and control will be returned to the Web Service Consumer without waiting for posting to complete.

☑ **RptHdr1 (Optional).** This is a 50-character description field that will be placed on the batch control record.

☑ **RptHdr2 (Optional).** This is a 50-character description field that will be placed on the batch control record.

☑ **DepositID (Optional).** This is the 8-character deposit ID that is used for miscellaneous deposit batches. This is recommended for Miscellaneous Deposits. If Deposit ID is not provided, the Batch ID will be placed on the Master Bank Register and the generated Cash Batch during ledger posting.

☑ **DepositDate (Optional).** This is the deposit date that is used for miscellaneous deposit batches (CCYY-MM-DD). It is recommended for Miscellaneous Deposits. If not provided, it will be defaulted on the Master Bank Register to the transaction reference date during ledger posting.

☑ **IfCorrect (Optional).** This determines what happens when the batch is correct (control totals if defined and no edit errors). If present, this overrides $BT-POST-EXTIF. Possible values are as follows:

- O - Post the batch regardless of the value of $BT-POST-EXTIF.

- R - Retain the batch regardless of the value of $BT-POST-EXTIF. The batch status is determined by $BF1-MARK-STS-AT-CMP.

- D - Delete the batch. This gives an external interface developer the option of validating a batch without actually updating the ledger.

- P - Process the batch according to $BT-POST-EXTIF. This is the default value and is equivalent to omitting IfCorrect.

☑ **IfEditErrors (Optional).** This determines what happens when the batch has at least one edit error, regardless of the validity of control totals, if any. If present, this overrides <UnconditionalUpdate> if it is also present.

- R - Retain the incorrect batch unconditionally. Batch status should be set to I.

- D - Delete the incorrect batch unconditionally.

- P - Process the batch according to the presence/absence/value of <UnconditionalUpdate> and the value of $BT-POST-EXTIF. This is the default value and is equivalent to omitting <IfEditErrors>.

☑ **IfInvalidTotals (Optional).** This determines what happens when the batch has no edit errors, control totals are in use, and at least one control total is invalid (incorrect). If present, this overrides the default action (retain with status of I) for a batch in this condition.

- R - Unconditionally retain the batch with a status of I (invalid).

- D - Unconditionally delete the batch.

- P - Retain the batch with a status of I (invalid). This is the default value and is equivalent to omitting <IfInvalidTotals>.

- **Journal.** Journal is an array within BatchInput. There will be one instance of the array for each journal in the batch. Following are the descriptions of the fields.

☑ **JournalId (Required).** Specifies the journal ID and description associated with the journal being maintained. The Id is a required field and the corresponding description is free form text.

☑ **Desc1 (Optional).** Description associated with the journal (up to 40 printable characters).

☑ **Desc2 (Optional).** Description associated with the journal (up to 40 printable characters).

- **Td.** Td is an array within Journal. There will be one instance of the array for each transaction in the journal. Following are the descriptions of the fields.

  ☑ **Account (Required).** Up to sixty characters. The account number to post to. The account number must be in normalized form. Fields appear in left to right order according to the account number format for the ledger. Each field occupies its exact defined external width in the string. Numeric fields are right justified with leading zero fill on the defined width. Alphanumeric fields are left justified, uppercase, with trailing period fill on the defined width.

  ☑ **DataType (Required).** Specifies the type of data (i.e., financial or statistical) to be associated with each entry. This value must be a valid data type defined for this system. The default value is FFF (financial). If the drop-down arrow is chosen, the system lists all valid data types for this system.

  ☑ **BegPd (Required).** The beginning period to post to.

  ☑ **EndPd (Required).** The ending period to post to.

  ☑ **Year (Required).** The ending year to post to (CCYY).

  ☑ **Amount (Required).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. This is the amount of the transaction. If the Amount represents a percent, for example, when a Basis is used, prefix the Amount with a % (percentage sign).

  ☑ **RefId (Optional).** Specifies a comment or reference document to be associated with the entry.

  ☑ **RefDate (Optional).** Six characters, numeric. This is the reference date of the transaction (CCYY-MM-DD).

  ☑ **Comment (Optional).** This is an 80-character comment to be associated with the transaction.

☑ **Basis (Optional).** Four characters. First character is @ or A-Z for actuals or one of the budget files. Second character is a digit, a blank, a + or a -. Third character is a digit or a blank. Either both or neither of the second and third characters must be blank. Fourth character must be blank.

☑ **SpreadId (Optional).** The spread table ID if a spread table is to be used for a computation. Four characters. Three-character spread table ID, right justified zero filled if numeric. Fourth character must be blank.

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Budget Multiple Batch Creation SOAP Response

```
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Body>
    <CreateBudgetMBatchResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <CreateBudgetMBatchResult>int</CreateBudgetMBatchResult>
      <BatchStatus>
        <Overall>string</Overall>
        <BatchType>string</BatchType>
        <BatchCtl>string</BatchCtl>
        <User>string</User>
        <BatchId>string</BatchId>
        <PdYr>string</PdYr>
        <DataFile>string</DataFile>
        <Gencon>string</Gencon>
        <FinCtl>string</FinCtl>
        <DebitCtl>string</DebitCtl>
        <StatCtl>string</StatCtl>
        <JournalCtl>string</JournalCtl>
        <TxCtl>string</TxCtl>
        <HashCtl>string</HashCtl>
        <Posted>string</Posted>
        <OutputDevice>string</OutputDevice>
        <IfCorrect>string</IfCorrect>
        <IfEditErrors>string</IfEditErrors>
        <IfInvalidTotals>string</IfInvalidTotals>
        <Journals>string</Journals>
        <JournalStatus>
          <BudgetMJournalStatus>
            <Overall>string</Overall>
            <Transactions>string</Transactions>
            <TdStatus xsi:nil="true" />
          </BudgetMJournalStatus>
          <BudgetMJournalStatus>
            <Overall>string</Overall>
            <Transactions>string</Transactions>
            <TdStatus xsi:nil="true" />
          </BudgetMJournalStatus>
        </JournalStatus>
      </BatchStatus>
    </CreateBudgetMBatchResponse>
  </soap:Body>
</soap:Envelope>
```

- **CreateBudgetMBatchResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- Following is a detailed description of the fields and their values.

  ☑ **Overall.** This is the overall status of budget batch creation. If this value is "Y," the creation of the budget batch was successful and the batch was posted or closed as requested by the input flags.

  ☑ **BatchType.** This is the edit status of the batch type. A "Y" value means edits were successful. A " " value means that it was not edited due to "CreateBudgetMBatchResult" not being successful. If there is an edit failure on batch type, no further edits are performed because of processing dependencies. Edit failure values follow.

    ➢ "1"   The batch type does not exist.

    ➢ "2"   The batch type format is not for a budget multiple batch.

    ➢ "3"   The batch type is not for interactive batch creation.

    ➢ "4"   The bank reconciliation batch type cannot be processed in Web Services ($BT-GLMISC-TYPE = "B" or "G").

  ☑ **BatchCtl.** This is the edit status of the batch control. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If batch control edits fail, no further edits are performed for the batch.

    ➢ "1"   If batch already exists. This can happen when manual batch numbering is used and the entered ID already exists.

    ➢ "2"   The batch number was not entered (or zero) and the batch type cannot auto number.

    ➢ "3"   The batch number was supplied and the batch type is set to auto number.

  ☑ **User.** This is the edit status of the user. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If user edits fail, no further edits are performed for the batch.

    ➢ "N"   The User field was left blank and is required.

    ➢ "1"   The User was entered, but does not exist.

- ➢ "2"   User security failure for the entered user field.

- ➢ "3"   Cannot post to the entered user field code.

☑ **BatchId.** When budget batch creation is successful, this is the batch ID of the batch that was created.

☑ **PdYr.** This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

- ➢ "1"   The period is closed and the batch type prohibits posting to closed periods.

- ➢ "2"   The period is a future period and batch type prohibits posting to future   periods.

- ➢ "3"   The period is not in the period range for the ledger.

- ➢ "4"   The sequence control entry is missing.

- ➢ "5"   The closing control entry is missing.

- ➢ "6"   Cannot budget to opening balance.

- ➢ "7"   Cannot budget to more than 10 years into the future.

☑ **DataFile.** This is the edit status of the data file. A "Y" value means edits were successful. A " " value means that it was not edited. An "N" value means that the entered data file was invalid.

☑ **GenCon.** This is the edit status of the GenCon. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

- ➢ "1"   The entered GenCon does not exist.

- ➢ "2"   The GenCon entered is not a data entry GenCon and must be.

- ➢ "3"   No GenCon was supplied and one is required by the batch type.

☑ **FinCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

- ➢ "N"   Control total was required, but not entered.

➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **DebitCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  ➢ "N" Control total was required, but not entered.

  ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **StatCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  ➢ "N" Control total was required, but not entered.

  ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **JournalCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  ➢ "N" Control total was required, but not entered.

  ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **TxCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  ➢ "N" Control total was required, but not entered.

  ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **HashCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  ➢ "N" Control total was required, but not entered.

  ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **Posted.** This is the posting status if the batch was successfully created. This field is only significant if the "Overall" flag for the batch indicates success. Values for the posting field follow.

- ➢ "S" The batch was submitted for posting synchronously.

- ➢ "B" The batch was submitted for posting background.

- ➢ "V" The batch was closed and set to "valid" status.

- ➢ "R" The batch was closed and set to "released" status.

- ➢ "I" The batch was closed and set to "invalid" status due to having invalid totals.

- ➢ "D" The batch was deleted due to edit errors during batch creation.

- ☑ **OutputDevice.** This is the edit status of the output device. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure value follows: "N" means that the entered output device is not valid.

- ☑ **DepositDate.** This is the status of the deposit date if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid deposit date was entered.

- ☑ **IfCorrect.** This is the status of the IfCorrect batch disposition if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

- ☑ **IfEditErrors.** This is the status of the IfEditErrors batch disposition if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

- ☑ **IfInvalidTotals.** This is the status of the IfInvalidTotals batch disposition if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

- • Following is a description of the status fields. BudgetMJournalStatus is an array. There is one instance for each instance in the BudgetMJournal array in the SOAP request message and contains the status information for the corresponding instance.

- ☑ **Overall.** This is the overall status for this Journal. A "Y" value means edits were successful for the Journal and all transactions in the journal. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors. Other possible status values include:

"1" - Journal ID is required and was omitted.

"2" - Journal ID is limited to 10 digits.

"3" - Journal ID must be a numeric value.

"4" - Journal ID cannot be all zeros.

"5" - A duplicate journal ID exists in the batch.

☑ **Transactions.** This is the edit status or the transactions for this journal. A "Y" value means that all transactions passed edits. If one or more transactions had an edit failure, this value is "N." A " " value means that it was not edited.

- Following is a description of the status fields in TdStatus. BudgetMTransactionStatus is an array. There is one instance for each instance in the BudgetMTransaction array in the SOAP request message and contains the status information for the corresponding instance.

☑ **Overall.** This is the overall status for this transaction. A "Y" value means edits were successful for the transaction. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors.

☑ **Rule.** This is the status for the rule which is processed just prior to putting the transaction into the batch. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors and the rule disqualified this transaction for entry into the batch.

☑ **DataType.** This is the status of the data type. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that an invalid data type was entered.

☑ **RefDate.** This is the status of the reference date. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that an invalid reference date was entered.

☑ **GenCon.** This is the status of the GenCon. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means there was an edit failure in the GenCon processing.

☑ **Amount.** This is the status of the Amount for the transaction. A "Y" value means edit was successful. A " " value means the edit was not done. An "N" value means that the amount is invalid. It failed edit mask edits, so it is probably out of range.

☑ **BegPd.** This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

  ➢ "1"   The period is closed and the batch type prohibits posting to closed periods.

  ➢ "2"   The period is a future period and batch type prohibits posting to future periods.

  ➢ "3"   Cannot budget to more than 10 years into the future.

  ➢ "4"   The period is not in the period range for the ledger.

  ➢ "5"   If posting to opening balance, both periods must be zero.

☑ **EndPd.** This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

  ➢ "1"   The period is closed and the batch type prohibits posting to closed periods.

  ➢ "2"   The period is a future period and batch type prohibits posting to future periods.

  ➢ "3"   Cannot budget to more than 10 years into the future.

  ➢ "4"   The period is not in the period range for the ledger.

  ➢ "5"   If posting to opening balance, both periods must be zero.

☑ **Spread.** This is the status of the Spread table for the transaction. A "Y" value means the edit was successful. A " " value means the edit was not done. An "N" value means that edit failed.

☑ **Basis.** This is the status of the Basis for the transaction. A "Y" value means the edit was successful. A " " value means the edit was not done. An "N" value means that edit failed.

☑ **Account.** This is the status of the account edits. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. Unsuccessful edit failure values follow.

  ➢ "1"   The account number was left blank and is required.

➢ "N"   There was an edit failure for the account and that the following fields give the details of the edit failure.

☑ **AcctMerge.** This is the status of merging the account number. A "Y" value means the merge was successful. A " " values means the merge was not performed due to prior edit failure. An "N" value means there was a failure merging the account.

☑ **AcctNorm.** This is the status of normalizing the account number. A "Y" value means the operation was successful. A " " values means the operation was not performed due to prior edit failure. An "N" value means there was a failure performing the operation.

☑ **AcctPseudo.** This is the status of pseudo coding and defaulting the account number. A "Y" value means the operation was successful. A " " values means the operation was not performed due to prior edit failure. An "N" value means there was a failure performing the operation.

☑ **AcctUserSec.** This is the status of user security edit for the account number. A "Y" value means the user field code in the account matches the batch user. A " " values means the edit was not performed due to prior edit failure. An "N" value means the user field code on the account number does not match that for the batch.

☑ **AcctAuth.** This is the overall status for account authorization edits. If this is "Y," account authorization succeeded. In this case, the following sub status fields for account authorization give the details of the successful authorization. A " " value means that the edit was not performed. An "N" value means that the account authorization failed and the following sub status fields should be checked for the details of the failure.

• Following is a detailed description of the account authorization sub status fields.

☑ **AAuthSubStatus.** Sub status. If the authorization succeeded, the sub status indicates the manner in which authorization was accomplished.

    1   Specific authorization for the candidate account, data file, and data type combination was found.

    2   Authorization created automatically based on valid, authorized field code in each field, valid data file, and valid data type.

    3   Authorized by template for the candidate data file and data type.

4   Automatically authorized based on an existing authorization for the candidate account (or a matching template) and some other data file and data type combination.

If the authorization failed, the sub status indicates the precise reason for failure.

1   Account, data file, data type combination is explicitly not authorized.

2   Parameters require explicit authorization but no authorization record was found.

3   Account requires automatic creation but data type is invalid.

4   Account is not authorized and one or more field codes violates the pattern constraints.

5   Template, data file, data type combination is explicitly not authorized.

6   Account, data file, data type combination is not authorized by account or by template and parameters do not allow automatic authorization.

7   Account, data file, data type requires automatic authorization, but data type is invalid.

8   Account, data file, data type requires automatic authorization, but no template matching the account is authorized for anything.

9   At least one of the field codes which authorization was forced to check is not authorized for this class of data file.

10   At least one field code requires automatic creation, but the field definition does not permit it or the field code already exists in an alternate hierarchy.

11   At least one field code requires automatic creation, but the parameters do not permit it.

12   Security test failed.

13   Authorization was granted, but an internal error prevented field code, account or authorization updates. This status is not possible unless the caller requests updates. This should never occur in non-FMS applications.

14   At least one field code requires automatic creation, but the field code in the candidate account does not match the edit mask for the field.

- ☑ **AccountCreated.** Account master entry created. "Y" if an account master entry was created; "N" if not.

- ☑ **AuthorizationCreated.** Authorization entry created. "Y" if an authorization entry was created; "N" if not.

- Following is a description of the fields in FldStat. These fields indicate the status for the field code edits for the account. LedgerAAFieldStatus is an array of 12, one for each of the 12 possible posting fields in the account. The status array is in the order that the fields appear in the account.

  - ☑ **AAAuthFailed.** "Y" if the field code in this field was validated individually and failed the authorization check; "N" otherwise.

  - ☑ **AAAutoCreateFailed.** "Y" if automatic creation of the field code in this field was required, but forbidden; "N" otherwise.

  - ☑ **AAAutoCreateFailedAlt.** "Y" if automatic creation of the field code in this field was attempted, but failed due to a conflict with an alternate hierarchy; "N" otherwise.

  - ☑ **AAAutoCreated.** "Y" if a field code was automatically created; "N" if not. Can be "Y" only if updates are enabled, which should not happen in non-FMS applications.

  - ☑ **AAPatternFailed.** "Y" if the field code failed a zero/non-zero constraint imposed by the pattern; "N" otherwise.

  - ☑ **AAFailedNonPosting.** "Y" if the field code fails authorization because it is not a posting code; "N" otherwise.

  - ☑ **AAFailedEditMask.** "Y" if the field code does not match the edit mask for the field, "N" otherwise.

Budget Single Batch Creation (CreateBudgetSBatch Web Method)

This web service will create and optionally post a budget single batch. The SOAP request message is structured to have the batch header information following by an array of journals. Within each journal is an array of transactions. Following is a detailed description of the request and response messages for the Web Service.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the CreateBudgetSBatch web method.

```
        .
        .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
BudgetSBatchStatus statusRec;
BudgetSBatch inputRec = new BudgetSBatch();

//Fill the inputRec object with information for the budget batch
that you wish to create.
.
.
Result = fms.CreateBudgetSBatch(FMSUser, FMSPassword1,
FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Budget Single Batch Creation SOAP Request

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Body>
    <CreateBudgetSBatch xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
```

```
        <OSUser>string</OSUser>
        <OSPassword>string</OSPassword>
        <BatchInput>
          <BatchType>string</BatchType>
          <BatchNo>int</BatchNo>
          <User>string</User>
          <BegPd>string</BegPd>
          <EndPd>string</EndPd>
          <Year>string</Year>
          <DataFile>string</DataFile>
          <FinCtl>decimal</FinCtl>
          <DebitCtl>decimal</DebitCtl>
          <StatCtl>decimal</StatCtl>
          <HashCtl>decimal</HashCtl>
          <JournalCtl>int</JournalCtl>
          <TxCtl>int</TxCtl>
          <Gencon>string</Gencon>
          <OutputDevice>string</OutputDevice>
          <UnconditionalUpdate>boolean</UnconditionalUpdate>
          <SubmitType>string</SubmitType>
          <RptHdr1>string</RptHdr1>
          <RptHdr2>string</RptHdr2>
          <IfCorrect>string</IfCorrect>
          <IfEditErrors>string</IfEditErrors>
          <IfInvalidTotals>string</IfInvalidTotals>
          <Journal>
            <BudgetSJournal>
              <JournalId>string</JournalId>
              <Desc1>string</Desc1>
              <Desc2>string</Desc2>
              <Td xsi:nil="true" />
            </BudgetSJournal>
            <BudgetSJournal>
              <JournalId>string</JournalId>
              <Desc1>string</Desc1>
              <Desc2>string</Desc2>
              <Td xsi:nil="true" />
            </BudgetSJournal>
          </Journal>
        </BatchInput>
      </CreateBudgetSBatch>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields are described in *The SOAP Response Message* section.

- Following is a description of the fields.

  - ☑ **BatchType (Required).** Two-character, uppercase alphabetic batch type. Must be a valid batch type for creating SD type batches. Combination of Batch Type and target ledger must exist in $BATCH-TYPE-OBJ table.

☑ **BatchNo (Required/Optional).** Six-character, right justified, zero filled. Required if batch type is not set up for auto-numbering. If batch type is auto-numbering, this field should be blank or zero. If the batch type requires a manual number, this is the batch number for the batch.

☑ **User (Required).** Twenty-four characters, left justified, space filled. Represents the external posting user field code for this batch. All account numbers used in this batch must be for this user.

☑ **BegPd (Required).** Beginning fiscal period for the batch. This can be left blank and defaulted for the user.

☑ **EndPd (Required).** Ending fiscal period for batch. This can be left blank and defaulted for the user.

☑ **DataFile (Required).** Two characters. First character is the letter "B." Second character is a letter from "A" to "Z" signifying the target budget file. The budget file must exist in the target system. The FMS data file to post to. The set of data files available depends on the configuration of the ledger at this site. This can be left blank if the data file on the batch type is to be used.

☑ **Year (Required).** Four-character fiscal year of ending period in CCYY format. This can be left blank and defaulted for the user.

☑ **FinCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for financial control, this is the financial control total for the batch.

☑ **DebitCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for debit control, this is the debit control total for the batch.

☑ **StatCtl (Optional).** Twenty characters, numeric, right justified. Must contain leading sign for negatives. If the batch type is configured for statistic control, this is the control total for non-financial transactions in the batch.

☑ **HashCtl (Required/Optional).** Specifies a non-financial control total associated with the account numbers entered in the batch. A specified number of digits of the account number is the basis of this field's value. The system adds the value of these digits for each entered transaction.

☑ **JournalCtl (Required/Optional).** Specifies the number of journals which comprise the batch. This is applicable only if the batch type uses journals. A new journal can be created at any time during transaction entry.

☑ **TxCtl (Required/Optional).** If the batch type is configured for transaction control, this specifies the total number of transactions to be entered in the batch.

☑ **GenCon (Optional).** The GenCon to be used for customized account number processing and validation. If a value is entered, it will override the GenCon on the batch type. GenCons are custom business rules that are developed by Mitchell Humphrey for specific uses within an organization. If a data entry GenCon applies, it can be specified here or on the batch type definition.

☑ **OutputDevice (Optional).** If the batch is to be posted and the default output device is not desired, this is the output device for the posting report.

☑ **UnconditionalUpdate (Optional).** If "true," create or post the batch (according to configuration of $BT-POST-EXTIF batch type configuration) even if there are edit errors. If "false," delete the batch if there are any edit failures creating the batch. Note that if the batch contains no transactions, it will be deleted no matter what the value of this flag is.

☑ **SubmitType (Optional).** If the batch is to be posted (i.e., the $BT-POST-EXTIF batch type flag is "Y"), this indicates how the batch is to be posted in FMS. If "S," the batch is to be posted synchronously. In this case, if the Web Service is running synchronously, control will not be returned to the Web Service Consumer until the batch is posted. If "B," the batch will be posted background and control will be returned to the Web Service Consumer without waiting for posting to complete.

☑ **RptHdr1 (Optional).** This is a 50-character description field that will be placed on the batch control record.

☑ **RptHdr2 (Optional).** This is a 50-character description field that will be placed on the batch control record.

☑ **DepositID (Optional).** This is the 8-character deposit ID that is used for miscellaneous deposit batches. This is recommended for Miscellaneous Deposits. If Deposit ID is not provided, the Batch ID will be placed on the Master Bank Register and the generated Cash Batch during ledger posting.

☑ **DepositDate (Optional).** This is the deposit date that is used for miscellaneous deposit batches(CCYY-MM-DD). This is recommended for Miscellaneous Deposits. If not provided, it will be defaulted on the Master Bank Register to the transaction reference date during ledger posting.

☑ **IfCorrect (Optional).** This determines what happens when the batch is correct (control totals if defined and no edit errors). If present, this overrides $BT-POST-EXTIF. Possible values are as follows.

- O - Post the batch regardless of the value of $BT-POST-EXTIF.

- R - Retain the batch regardless of the value of $BT-POST-EXTIF. The batch status is determined by $BF1-MARK-STS-AT-CMP.

- D - Delete the batch. This gives an external interface developer the option of validating a batch without actually updating the ledger.

- P - Process the batch according to $BT-POST-EXTIF. This is the default value and is equivalent to omitting IfCorrect.

☑ **IfEditErrors (Optional).** This determines what happens when the batch has at least one edit error, regardless of the validity of control totals, if any. If present, this overrides <UnconditionalUpdate> if it is also present.

- R - Retain the incorrect batch unconditionally. Batch status should be set to I.

- D - Delete the incorrect batch unconditionally.

- P - Process the batch according to the presence/absence/value of <UnconditionalUpdate> and the value of $BT-POST-EXTIF. This is the default value and is equivalent to omitting <IfEditErrors>.

☑ **IfInvalidTotals (Optional).** This determines what happens when the batch has no edit errors, control totals are in use, and at least one control total is invalid (incorrect). If present, this overrides the default action (retain with status of I) for a batch in this condition.

- R - Unconditionally retain the batch with a status of I (invalid).

- D - Unconditionally delete the batch.

- P - Retain the batch with a status of I (invalid). This is the default value and is equivalent to omitting <IfInvalidTotals>.

- **Journal.** Journal is an array within BatchInput. There will be one instance of the array for each journal in the batch. Following is a detailed description of the fields and their values.

☑ **JournalId (Required).** This is the numeric journal ID.

☑ **Desc1 (Optional).** Description associated with the journal (up to any 40 printable characters).

☑ **Desc2.** Description associated with the journal (up to any 40 printable characters).

- **Td.** Td is an array within Journal. There will be one instance of the array for each transaction in the journal. Following is a detailed description of the fields and their values.

  ☑ **Account (Required).** Up to sixty characters. The account number to post to. The account number must be in normalized form. Fields appear in left to right order according to the account number format for the ledger. Each field occupies its exact defined external width in the string. Numeric fields are right justified with leading zero fill on the defined width. Alphanumeric fields are left justified, uppercase; with trailing period fill on the defined width.

  ☑ **BegPd (Required).** Two-digit numeric, right justified, zero filled. Specifies beginning period for the TD.

  ☑ **EndPd (Required).** Two-digit numeric, right justified, zero filled. Specifies ending period for the TD.

  ☑ **Year (Required).** Four-digit year (CCYY) for the ending period (e.g., 2007). Note that at most, one contiguous year of periods may be specified by one budget TD.

  ☑ **DataType (Required).** Specifies the type of data (i.e., financial or statistical) to be associated with each entry. This value must be a valid data type defined for this system. The default value is FFF (financial). If the drop-down arrow is chosen, the system lists all valid data types for this system.

  ☑ **RefId (Optional).** Twenty characters, any printable character. This is the reference ID of the transaction.

  ☑ **RefDate (Optional).** This is the reference date of the transaction (CCYY-MM-DD).

  ☑ **Comment (Optional).** This is an 80-character comment to be associated with the transaction.

  ☑ **Basis (Optional).** The basis definition if a basis computation is to be used. Four characters. First character is @ or A-Z for actuals or one of the budget files. Second character is a digit, a blank, a + or a -. Third character is a digit or a blank. Either both or neither of the second and third characters must be blank. Fourth character must be blank. This field is not used at this time.

  ☑ **SpreadId (Optional).** The spread table ID if a spread table is to be used for a computation. Four characters. Three-character spread table ID, right justified

zero filled if numeric. Fourth character must be blank. This field is not used at this time.

☑ **Bucket (Optional).** This is an array of 15 which are the amounts to be posted. The first instance in the array corresponds to the period in the BegPd field. For example, if BegPd = 5 and EndPd = 10, then instances 1 thru 5 (1 relative) will contain the amounts to be posted.

Budget Single Batch Creation SOAP Response

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateBudgetSBatchResponse
xmlns="http://www.contentmaster.com/FMSServices">
      <CreateBudgetSBatchResult>int</CreateBudgetSBatchResult>
      <BatchStatus>
        <Overall>char</Overall>
        <BatchType>char</BatchType>
        <BatchCtl>char</BatchCtl>
        <User>char</User>
        <BatchId>string</BatchId>
        <PdYr>char</PdYr>
        <DataFile>char</DataFile>
        <Gencon>char</Gencon>
        <FinCtl>char</FinCtl>
        <DebitCtl>char</DebitCtl>
        <StatCtl>char</StatCtl>
        <JournalCtl>char</JournalCtl>
        <TxCtl>char</TxCtl>
        <HashCtl>char</HashCtl>
        <Posted>char</Posted>
        <OutputDevice>char</OutputDevice>
        <Journals>char</Journals>
        <JournalStatus>
          <BudgetSJournalStatus>
            <Overall>char</Overall>
            <Transactions>char</Transactions>
            <TdStatus>
              <BudgetSTransactionStatus>
                <Overall>char</Overall>
                <Rule>char</Rule>
                <DataType>char</DataType>
                <RefDate>char</RefDate>
                <Gencon>char</Gencon>
                <Account>char</Account>
                <AcctMerge>char</AcctMerge>
                <AcctNorm>char</AcctNorm>
                <AcctPseudo>char</AcctPseudo>
                <AcctUserSec>char</AcctUserSec>
                <AcctAuth>char</AcctAuth>
```

```
                <BegPd>char</BegPd>
                <EndPd>char</EndPd>
                <Spread>char</Spread>
                <Basis>char</Basis>
                <AcctSubStatus>
                  <AAuthSubStatus>unsignedShort</AAuthSubStatus>
                  <AccountCreated>char</AccountCreated>
                  <AuthorizationCreated>char</AuthorizationCreated>
                  <FldStat>
                    <LedgerAAFieldStatus>
                      <AAAuthFailed>char</AAAuthFailed>
                     <AAAutoCreateFailed>char</AAAutoCreateFailed>
                 <AAAutoCreateFailedAlt>char</AAAutoCreateFailedAlt>
                      <AAAutoCreated>char</AAAutoCreated>
                      <AAPatternFailed>char</AAPatternFailed>
                      <AAFailedNonPosting>char</AAFailedNonPosting>
                      <AAFailedEditMask>char</AAFailedEditMask>
                    </LedgerAAFieldStatus>
                    <LedgerAAFieldStatus>
                              .
                    </LedgerAAFieldStatus>
                  </FldStat>
                </AcctSubStatus>
                <Bucket>
                  <char>char</char>
                  <char>char</char>
                </Bucket>
             </BudgetSTransactionStatus>
             <BudgetSTransactionStatus>
                      .
                      .
             </BudgetSTransactionStatus>
           </TdStatus>
         </BudgetSJournalStatus>
         <BudgetSJournalStatus>
                      .
                      .
         </BudgetSJournalStatus>
        </JournalStatus>
      </BatchStatus>
    </CreateBudgetSBatchResponse>
  </soap:Body>
</soap:Envelope>
```

- **CreateBudgetSBatchResult.** This integer value gives the processing status of the
  Web Service. Return values are described in *The SOAP Response Message* section of
  the document.

  Following is a detailed description of the fields and their values.

  ☑ **Overall.** This is the overall status of budget batch creation. If this value is "Y,"
  the creation of the budget batch was successful and the batch was posted or closed
  as requested by the input flags.

☑ **BatchType.** This is the edit status of the batch type. A "Y" value means edits were successful. A " " value means that it was not edited due to "CreateBudgetSBatchResult" not being successful. If there is an edit failure on batch type, no further edits are performed because of processing dependencies. Edit failure values follow.

   ➢ "1" The batch type does not exist.

   ➢ "2" The batch type format is not for a budget multiple batch.

   ➢ "3" The batch type is not for interactive batch creation.

   ➢ "4" The bank reconciliation batch type cannot be processed in Web Services ($BT-GLMISC-TYPE = "B" or "G").

☑ **BatchCtl.** This is the edit status of the batch control. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If batch control edits fail, no further edits are performed for the batch.

   ➢ "1" If batch already exists. This can happen when manual batch numbering is used and the entered ID already exists.

   ➢ "2" The batch number was not entered (or zero) and the batch type cannot auto number.

   ➢ "3" The batch number was supplied and the batch type is set to auto number.

☑ **User.** This is the edit status of the user. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If user edits fail, no further edits are performed for the batch.

   ➢ "N" The User field was left blank and is required.

   ➢ "1" The User was entered, but does not exist.

   ➢ "2" User security failure for the entered user field.

   ➢ "3" Cannot post to the entered user field code.

☑ **BatchId.** When budget batch creation is successful, this is the batch ID of the batch that was created.

☑ **PdYr.** This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

- ➤ "1" The period is closed and the batch type prohibits posting to closed periods.

- ➤ "2" The period is a future period and batch type prohibits posting to future periods.

- ➤ "3" The period is not in the period range for the ledger.

- ➤ "4" The sequence control entry is missing.

- ➤ "5" The closing control entry is missing.

- ➤ "6" Cannot budget to opening balance.

- ➤ "7" Cannot budget to more than 10 years into the future.

- ☑ **DataFile.** This is the edit status of the data file. A "Y" value means edits were successful. A " " value means that it was not edited. An "N" value means that the entered data file was invalid.

- ☑ **GenCon.** This is the edit status of the GenCon. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  - ➤ "1" The entered GenCon does not exist.

  - ➤ "2" The GenCon entered is not a data entry GenCon and must be.

  - ➤ "3" No GenCon was supplied and one is required by the batch type.

- ☑ **FinCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  - ➤ "N" Control total was required, but not entered.

  - ➤ "1" An invalid amount was entered. Edit mask edit failure for the field.

- ☑ **DebitCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  - ➤ "N" Control total was required, but not entered.

  - ➤ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **StatCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢ "N"   Control total was required, but not entered.

➢ "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **JournalCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢ "N"   Control total was required, but not entered.

➢ "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **TxCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢ "N"   Control total was required, but not entered.

➢ "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **HashCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

➢ "N"   Control total was required, but not entered.

➢ "1"   An invalid amount was entered. Edit mask edit failure for the field.

☑ **Posted.** This is the posting status if the batch was successfully created. This field is only significant if the "Overall" flag for the batch indicates success. Values for the posting field follow.

➢ "S"   The batch was submitted for posting synchronously.

➢ "B"   The batch was submitted for posting background.

➢ "V"   The batch was closed and set to "valid" status.

➢ "R"   The batch was closed and set to "released" status.

➢ "I"   The batch was closed and set to "invalid" status due to having invalid control totals.

➢ "D" The batch was deleted due to edit errors during batch creation.

☑ **OutputDevice.** This is the edit status of the output device. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure value follows: "N" means that the entered output device is not valid.

☑ **DepositDate.** This is the status of the deposit date if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid deposit date was entered.

☑ **IfCorrect.** This is the status of the IfCorrect batch disposition, if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

☑ **IfEditErrors.** This is the status of the IfEditErrors batch disposition, if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

☑ **IfInvalidTotals.** This is the status of the IfInvalidTotals batch disposition, if provided in the interface. A "Y" value means the edit was successful. A " " value means that it was not edited due to a previous edit failure. An "N" value means that an invalid value was entered.

• Following is a description of the status fields in JournalStatus. BudgetSJournalStatus is an array. There is one instance for each instance in the BudgetSJournal array in the SOAP request message and contains the status information for the corresponding instance.

☑ **Overall.** This is the overall status for this Journal. A "Y" value means edits were successful for the Journal and all transactions in the journal. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors. Other possible status values include:

"1" - Journal ID is required and was omitted.

"2" - Journal ID is limited to 10 digits.

"3" - Journal ID must be a numeric value.

"4" - Journal ID cannot be all zeros.

"5" - A duplicate journal ID exists in the batch.

☑ **Transactions.** This is the edit status or the transactions for this journal. A "Y" value means that all transactions passed edits. If one or more transactions had an edit failure, this value is "N." A " " value means that it was not edited.

- Following is a description of the status fields in TdStatus. BudgetSTransactionStatus is an array. There is one instance for each instance in the BudgetSTransaction array in the SOAP request message and contains the status information for the corresponding instance.

  ☑ **Overall.** This is the overall status for this transaction. A "Y" value means edits were successful for the transaction. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors.

  ☑ **Rule.** This is the status for the rule which is processed just prior to putting the transaction into the batch. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors and the rule disqualified this transaction for entry into the batch.

  ☑ **DataType.** This is the status of the data type. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that an invalid data type was entered.

  ☑ **RefDate.** This is the status of the reference date. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means that an invalid reference date was entered.

  ☑ **GenCon.** This is the status of the GenCon. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. An "N" value means there was an edit failure in the GenCon processing.

  ☑ **BegPd.** This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

    ➢ "1" The period is closed and the batch type prohibits posting to closed periods.

    ➢ "2" The period is a future period and batch type prohibits posting to future periods.

    ➢ "3" Cannot budget to more than 10 years into the future.

    ➢ "4" The period is not in the period range for the ledger.

    ➢ "5" If posting to opening balance, both periods must be zero.

☑ **EndPd.** This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

  ➢ "1" The period is closed and the batch type prohibits posting to closed periods.

  ➢ "2" The period is a future period and batch type prohibits posting to future periods.

  ➢ "3" Cannot budget to more than 10 years into the future.

  ➢ "4" The period is not in the period range for the ledger.

  ➢ "5" If posting to opening balance, both periods must be zero.

☑ **Spread.** This is the status of the Spread table for the transaction. A "Y" value means the edit was successful. A " " value means the edit was not done. An "N" value means that edit failed.

☑ **Basis.** This is the status of the Basis for the transaction. A "Y" value means the edit was successful. A " " value means the edit was not done. An "N" value means that edit failed.

☑ **Account.** This is the status of the account edits. A "Y" value means edits were successful. A " " value means that it was not edited due to previous edit failure. Unsuccessful edit failure values follow.

  ➢ "1" The account number was left blank and is required.

  ➢ "N" There was an edit failure for the account and that the following fields give the details of the edit failure.

☑ **AcctMerge.** This is the status of merging the account number. A "Y" value means the merge was successful. A " " values means the merge was not performed due to prior edit failure. An "N" value means there was a failure merging the account.

☑ **AcctNorm.** This is the status of normalizing the account number. A "Y" value means the operation was successful. A " " values means the operation was not performed due to prior edit failure. An "N" value means there was a failure performing the operation.

☑ **AcctPseudo.** This is the status of pseudo coding and defaulting the account number. A "Y" value means the operation was successful. A " " values means the

operation was not performed due to prior edit failure. An "N" value means there was a failure performing the operation.

☑ **AcctUserSec.** This is the status of user security edit for the account number. A "Y" value means the user field code in the account matches the batch user. A " " values means the edit was not performed due to prior edit failure. An "N" value means the user field code on the account number does not match that for the batch.

☑ **AcctAuth.** This is the overall status for account authorization edits. If this is "Y," account authorization succeeded. In this case, the following sub status fields for account authorization give the details of the successful authorization. A " " value means that the edit was not performed. An "N" value means that the account authorization failed and the following sub status fields should be check for the details of the failure.

- Following is a detailed description of the account authorization sub status fields.

    ☑ **AAuthSubStatus.** Sub status. If the authorization succeeded, the sub status indicates the manner in which authorization was accomplished.

    1   Specific authorization for the candidate account, data file, and data type combination was found.

    2   Authorization created automatically based on valid, authorized field code in each field, valid data file, and valid data type.

    3   Authorized by template for the candidate data file and data type.

    4   Automatically authorized based on an existing authorization for the candidate account (or a matching template) and some other data file and data type combination.

    If the authorization failed, the sub status indicates the precise reason for failure.

    1   Account, data file, data type combination is explicitly not authorized.

    2   Parameters require explicit authorization, but no authorization record was found.

    3   Account requires automatic creation, but data type is invalid.

    4   Account is not authorized and one or more field codes violate the pattern constraints.

    5   Template, data file, data type combination is explicitly not authorized.

6   Account, data file, data type combination is not authorized by account or by template and parameters do not allow automatic authorization.

7   Account, data file, data type requires automatic authorization, but data type is invalid.

8   Account, data file, data type requires automatic authorization, but no template matching the account is authorized for anything.

9   At least one of the field codes which authorization was forced to check is not authorized for this class of data file.

10   At least one field code requires automatic creation, but the field definition does not permit it or the field code already exists in an alternate hierarchy.

11   At least one field code requires automatic creation, but the parameters do not permit it.

12   Security test failed.

13   Authorization was granted, but an internal error prevented field code, account or authorization updates. This status is not possible unless the caller requests updates. This should never occur in non-FMS applications.

14   At least one field code requires automatic creation, but the field code in the candidate account does not match the edit mask for the field.

☑ **AccountCreated.** Account master entry created. "Y" if an account master entry was created; "N" if not.

☑ **AuthorizationCreated.** Authorization entry created. "Y" if an authorization entry was created; "N" if not.

- Following is a description of the fields in FldStat. These fields indicate the status for the field code edits for the account. LedgerAAFieldStatus is an array of 12, one for each of the 12 possible posting fields in the account. The status array is in the order that the fields appear in the account.

  ☑ **AAAuthFailed.** "Y" if the field code in this field was validated individually and failed the authorization check; "N" otherwise.

  ☑ **AAAutoCreateFailed.** "Y" if automatic creation of the field code in this field was required, but forbidden; "N" otherwise.

- ☑ **AAAutoCreateFailedAlt.** "Y" if automatic creation of the field code in this field was attempted, but failed due to a conflict with an alternate hierarchy; "N" otherwise.

- ☑ **AAAutoCreated.** "Y" if a field code was automatically created; "N" if not. Can be "Y" only if updates are enabled, which should not happen in non-FMS applications.

- ☑ **AAPatternFailed.** "Y" if the field code failed a zero/non-zero constraint imposed by the pattern; "N" otherwise.

- ☑ **AAFailedNonPosting.** "Y" if the field code fails authorization because it is not a posting code; "N" otherwise.

- ☑ **AAFailedEditMask.** "Y" if the field code does not match the edit mask for the field; "N" otherwise.

- ☑ **Bucket.** Array of 15. This is the status of the Period Bucket Amounts for the transaction. A "Y" value means edit was successful. A " " value means the edit was not done. An "N" value means that the amount is invalid. It failed edit mask edits, so it is probably out of range.

Add Field Code (AddFieldCode Web Method)

This web service is used to add field codes. The SOAP request message must contain all the information needed to add the field code. The SOAP response message will contain detailed status information and indicate if the field code was added or failed to be added due to invalid input.

The service adds field code similar to the way that Field Code Maintenance adds field codes. If a posting code has alternates (and all edits pass), the alternates will also be added.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the AddFieldCode web method.

```
                 .
                 .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
FieldCodeStatus statusRec;
FieldCodeInput inputRec = new FieldCodeInput();

//Fill the inputRec object with information on the field code you
wish to add.
.
.
Result = fms.AddFieldCode(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Add Field Code SOAP Request

```
POST /FMSWebServices/FMSWebServices.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://www.contentmaster.com/FMSServices/AddFieldCode"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddFieldCode xmlns="http://www.contentmaster.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <fieldCodeInput>
        <FieldName>string</FieldName>
        <FieldCode>string</FieldCode>
        <SummaryCode>string</SummaryCode>

        <Description30>string</Description30>
        <Description10>string</Description10>
        <PostingAllowed>string</PostingAllowed>
        <ActualsAuthStat>string</ActualsAuthStat>
        <ActualsAuthPeriod>string</ActualsAuthPeriod>
```

```
        <ActualsAuthYear>string</ActualsAuthYear>
        <BudgetsAuthStat>string</BudgetsAuthStat>
        <BudgetsAuthPeriod>string</BudgetsAuthPeriod>
        <BudgetsAuthYear>string</BudgetsAuthYear>
        <EncumbrancesAuthStat>string</EncumbrancesAuthStat>
        <EncumbrancesAuthPeriod>string</EncumbrancesAuthPeriod>
        <EncumbrancesAuthYear>string</EncumbrancesAuthYear>
        <AltSummaryCode1>string</AltSummaryCode1>
        <AltSummaryCode2>string</AltSummaryCode2>
        <AltSummaryCode3>string</AltSummaryCode3>
        <AltSummaryCode4>string</AltSummaryCode4>
      </fieldCodeInput>
    </AddFieldCode>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields are described in *The SOAP Response Message* section.

- Following is a description of the fields in fieldCodeInput.

    ☑ **FieldName (Required).** The field name of the field to add a field code for. This must be a valid field entry for the specified ledger.

    ☑ **FieldCode (Required).** The field code to be added.

    ☑ **SummaryCode (Optional).** The summary code for the field code being added. If left blank, this will default to the "zero" field code.

    ☑ **Description30 (Optional).** The 30-character description for the field code.

    ☑ **Description10 (Optional).** The 10-character description for the field code.

    ☑ **PostingAllowed (Optional).** The posting allowed flag. A "Y" value means that posting is allowed for the field. An "N" value means that posting is not allowed for the field. If left blank, this will default to "Y" for posting fields and will default to "N" for summary fields.

    ☑ **ActualsAuthStat (Optional).** The posting authorization status for actuals. An "A" value means that posting is allowed to this field for periods beginning at the authorization period and year. An "N" value means that posting is not allowed to this field. If left blank, this will default to "A."

    ☑ **ActualsAuthPeriod (Optional).** This field and the authorization year indicate when the field code became (or becomes) authorized for being posted. If left blank, this will default to the oldest open period for the user or for all users according to sequence control.

☑ **ActualsAuthYear (Optional).** This field and the authorization period indicate when the field code became (or becomes) authorized for being posted to. If left blank (along with the period), this will default to the oldest open period/year for the user or for all users according to sequence control.

☑ **BudgetsAuthStat (Optional).** The posting authorization status for budgets. An "A" value means that posting is allowed to this field for periods beginning at the authorization period and year. An "N" value means that posting is not allowed to this field. If left blank, this will default to "A."

☑ **BudgetsAuthPeriod (Optional).** This field and the authorization year indicate when the field code became (or becomes) authorized for being posted to.

☑ **BudgetsAuthYear (Optional).** This field and the authorization period indicate when the field code became (or becomes) authorized for being posted to.

☑ **EncumbrancesAuthStat (Optional).** The posting authorization status for encumbrances. An "A" value means that posting is allowed to this field for periods beginning at the authorization period and year. An "N" value means that posting is not allowed to this field. If left blank, this will default to "A."

☑ **EncumbrancesAuthPeriod (Optional).** This field and the authorization year indicate when the field code became (or becomes) authorized for being posted to.

☑ **EncumbrancesAuthYear (Optional).** This field and the authorization period indicate when the field code became (or becomes) authorized for being posted to.

☑ **AltSummaryCode1 (Optional).** If the field has alternates, this is the summary code for the first alternate. If left blank, this will default to the "zero" field code.

☑ **AltSummaryCode2 (Optional).** If the field has alternates, this is the summary code for the second alternate. If left blank, this will default to the "zero" field code.

☑ **AltSummaryCode3 (Optional).** If the field has alternates, this is the summary code for the third alternate. If left blank, this will default to the "zero" field code.

☑ **AltSummaryCode4 (Optional).** If the field has alternates, this is the summary code for the fourth alternate. If left blank, this will default to the "zero" field code.

Add Field Code SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddFieldCodeResponse
xmlns="http://www.contentmaster.com/FMSServices">
      <AddFieldCodeResult>int</AddFieldCodeResult>
      <fieldCodeStatus>
        <Overall>char</Overall>
        <FieldName>char</FieldName>
        <PostingAllowed>char</PostingAllowed>
        <FieldCode>char</FieldCode>
        <SummaryCode>char</SummaryCode>
        <ActualsAuthStat>char</ActualsAuthStat>
        <ActualsAuthPeriod>char</ActualsAuthPeriod>
        <ActualsAuthYear>char</ActualsAuthYear>
        <BudgetsAuthStat>char</BudgetsAuthStat>
        <BudgetsAuthPeriod>char</BudgetsAuthPeriod>
        <BudgetsAuthYear>char</BudgetsAuthYear>
        <EncumbrancesAuthStat>char</EncumbrancesAuthStat>
        <EncumbrancesAuthPeriod>char</EncumbrancesAuthPeriod>
        <EncumbrancesAuthYear>char</EncumbrancesAuthYear>
        <AltSummaryCode1>char</AltSummaryCode1>
        <AltSummaryCode2>char</AltSummaryCode2>
        <AltSummaryCode3>char</AltSummaryCode3>
        <AltSummaryCode4>char</AltSummaryCode4>
      </fieldCodeStatus>
    </AddFieldCodeResponse>
  </soap:Body>
</soap:Envelope>
```

- **AddFieldCodeResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of the document.

  This details the status for adding the field code. Following is a detailed description of the fields and their values.

  ☑ **Overall.** This is the overall status for adding the field code. If this value is "Y," the field code (and its alternates if applicable) was successful added. An "N" value means that the field code was not added due to invalid input. See the following status fields for the details of the edit failure.

☑ **FieldName.** This status is for the field name. A "Y" value means that the field (or flag) is valid. If the field name fails edits, none of the edits of the following fields are performed. Edit failure values are the following:

➢ "N" The entered field name (or flag) does not exist for the ledger.

➢ "1" Field codes cannot be added to this field by maintenance.

☑ **PostingAllowed.** This status is for the posting allowed flag. A "Y" value means that the field is valid. If this field fails edits, none of the edits of the following fields are performed. Edit failure values are the following:

➢ "N" An invalid value was entered. Allowed values are "Y," "N," and blank.

➢ "1" A "Y" value was entered and the field is a summary field.

➢ "2" An "N" value was entered and the field is a flat field.

☑ **FieldCode.** This is the status for the field code edits. A "Y" value means that the field code is valid. If the field code fails edits, none of the edits of the following fields are performed. Edit failure values are the following:

➢ "N" The entered field code already exists.

➢ "1" Alternate summary codes exist for the entered field code.

➢ "2" Input field code failed edit mask.

☑ **SummaryCode.** This is the status for the summary field code edits. A "Y" value means that the summary field code is valid. If the summary code fails edits, none of the edits of the following fields are performed. Edit failure values are the following:

➢ "N" The entered summary code does not exist.

➢ "1" Summary code cannot be a descendent of itself.

➢ "2" Field code cannot summarize to itself.

☑ **ActualsAuthStat.** This is the status for the ActualsAuthStat field. A "Y" value means the status is valid. An "N" value means that the status is invalid.

☑ **ActualsAuthPeriod.** This is the status for the ActualsAuthPeriod field. A "Y" value means the period is valid. An "N" value means that an invalid period was entered.

☑ **ActualsAuthYear.** This is the status for the ActualsAuthYear field. A "Y" value means the year is valid. An "N" value means that an invalid year was entered.

☑ **BudgetsAuthStat.** This is the status for the BudgetsAuthStat field. A "Y" value means the status is valid. An "N" value means that the status is invalid.

☑ **BudgetsAuthPeriod.** This is the status for the BudgetsAuthStat field. A "Y" value means the period is valid. An "N" value means that an invalid period was entered.

☑ **BudgetsAuthYear.** This is the status for the BudgetsAuthStat field. A "Y" value means the year is valid. An "N" value means that an invalid year was entered.

☑ **EncumbrancesAuthStat.** This is the status for the EncumbrancesAuthStat field. A "Y" value means the status is valid. An "N" value means that the status is invalid.

☑ **EncumbrancesAuthPeriod.** This is the status for the EncumbrancesAuthStat field. A "Y" value means the period is valid. An "N" value means that an invalid period was entered.

☑ **EncumbrancesAuthYear.** This is the status for the EncumbrancesAuthStat field. A "Y" value means the year is valid. An "N" value means that an invalid year was entered.

☑ **AltSummaryCode1.** This is the edit status of the AltSummaryCode1 field. A "Y" value means edits were successful. Edit failure values follow.

➢ "N"   The field code does not exist or is invalid.

➢ "1"   Summary code cannot be a descendent of itself.

➢ "2"   Field code cannot summarize to itself.

☑ **AltSummaryCode2.** See AltSummaryCode1 field.

☑ **AltSummaryCode3.** See AltSummaryCode1 field.

☑ **AltSummaryCode4.** See AltSummaryCode1 field.

Add Vendor (AddVendor Web Method)

This web service is used to add an Accounts Payable vendor. This Web Method is intended to replace the VEND GenCon which is used to add vendors.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the AddVendor web method.

```
          .
          .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
VendorAddStatus statusRec;
VendorAdd inputRec = new VendorAdd();

//Fill the inputRec object with information on the vendor you wish
to add.
.
.
Result = fms.AddVendor(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Add Vendor SOAP Request

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddVendor xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <vendorInput>
        <VendorId>string</VendorId>
        <User>string</User>
```

```xml
<Name>string</Name>
<Address1>string</Address1>
<Address2>string</Address2>
<Address3>string</Address3>
<Address4>string</Address4>
<City>string</City>
<State>string</State>
<Country>string</Country>
<Zip>string</Zip>
<ContactName>string</ContactName>
<ContactPhone>string</ContactPhone>
<ContactPhone2>string</ContactPhone2>
<Fax>string</Fax>
<Master>string</Master>
<Share>boolean</Share>
<Authorize>boolean</Authorize>
<LastPaymentDate>string</LastPaymentDate>
<CheckNumber>string</CheckNumber>
<CreditLimit>decimal</CreditLimit>
<CreditRating>string</CreditRating>
<CheckLimit>decimal</CheckLimit>
<BalanceDue>decimal</BalanceDue>
<PrintDebit>boolean</PrintDebit>
<PaymentStatusCode>string</PaymentStatusCode>
<TermsCode>string</TermsCode>
<SingleCheck>boolean</SingleCheck>
<EnclosureWithCheck>boolean</EnclosureWithCheck>
<PaymentPriority>int</PaymentPriority>
<SortCode>string</SortCode>
<BaseDateCode>string</BaseDateCode>
<GraceDays>int</GraceDays>
<BankNumber>string</BankNumber>
<CurrencyCode>string</CurrencyCode>
<GLAccount>string</GLAccount>
<GLContraAccount>string</GLContraAccount>
<APAccount>string</APAccount>
<APContraAccount>string</APContraAccount>
<UserField1>string</UserField1>
<UserField2>string</UserField2>
<OverrideFlag>boolean</OverrideFlag>
<ShortName>string</ShortName>
<PaymentName>string</PaymentName>
<PaymentAddress1>string</PaymentAddress1>
<PaymentAddress2>string</PaymentAddress2>
<PaymentAddress3>string</PaymentAddress3>
<PaymentAddress4>string</PaymentAddress4>
<PaymentCity>string</PaymentCity>
<PaymentState>string</PaymentState>
<PaymentCountry>string</PaymentCountry>
<PaymentZip>string</PaymentZip>
<SICCode>string</SICCode>
<PrimaryProductCode>string</PrimaryProductCode>
<Vendor1099>string</Vendor1099>
<CustomerNumber>string</CustomerNumber>
<EmployeeNumber>string</EmployeeNumber>
<FederalID>string</FederalID>
```

```
        <MinorityCode>string</MinorityCode>
        <Active>string</Active>
        <MinimumHistoryAmt>decimal</MinimumHistoryAmt>
        <Internet>string</Internet>
        <EDI>string</EDI>
        <Send>string</Send>
        <ElectronicAddr>string</ElectronicAddr>
        <POActive>string</POActive>
        <FOB>string</FOB>
        <Freight>string</Freight>
        <Buyer>string</Buyer>
        <ShipVia>string</ShipVia>
        <POContact>string</POContact>
        <POContactPhone>string</POContactPhone>
      </vendorInput>
    </AddVendor>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in *The SOAP Response Message* section.

- Following is a description of the fields in vendorInput.

    ☑ **Vendor Id (Required).** Twenty-four character uppercase vendor ID.

    ☑ **User Code (Required).** Three-character numeric user field code.

    ☑ **Name (Required).** Thirty characters, any printable types. Identifies the vendor name.

    ☑ **Address1 (Optional).** Thirty characters, any printable types. Contains first vendor address line.

    ☑ **Address2 (Optional).** Thirty characters, any printable types. Contains second vendor address line.

    ☑ **Address3 (Optional).** Thirty characters, any printable types. Contains third vendor address line.

    ☑ **Address4 (Optional).** Thirty characters, any printable types. Contains fourth vendor address line.

    ☑ **City (Optional).** Thirty characters, any printable type. Contains the vendor city name.

☑ **State (Optional).** Four characters, any printable types. Contains vendor state abbreviation allowing for sort/selection by state.

☑ **Country (Optional).** Three characters, any printable types. Contains vendor country abbreviation allowing for sort/selection by country.

☑ **Zip Code (Optional).** Ten characters, any printable types. Contains vendor zip code.

☑ **ContactName (Optional).** Thirty characters, any printable types. Contains name of contact person for vendor matters.

☑ **ContactPhone (Optional).** Twenty characters, any printable types. Contains contact telephone number of vendor.

☑ **ContactPhone2 (Optional).** Twenty characters, any printable types. Contains second contact telephone number of vendors.

☑ **Fax (Optional).** Twenty characters, any printable types. Contains fax number of vendor.

☑ **Master (Optional).** Twenty-four characters, uppercase, alphanumeric (0-9, A-Z), left justified, space filled to the right. This is the external vendor ID of the master vendor if different than this vendor ID. If there is no master vendor, leave this field blank. The master vendor ID must exist in FMS prior to processing this vendor.

☑ **Share (Required).** Contains either "true" or "false". If "true," this vendor can be shared by all users. If "false," then this vendor cannot be shared between FMS AP User codes.

☑ **Authorize (Required).** Contains either "true" or "false." If "true," the vendor is authorized for AP documents.

☑ **LastPaymentDate (Optional).** Eight characters, must be in CCYY-MM-DD format. Contains the date of the last payment made to this vendor.

☑ **CheckNumber (Optional).** Fourteen characters, any printable types. Contains the number of the last check issued to this vendor.

☑ **CreditLimit (Required).** Fifteen-character numeric. Contains the credit limit the vendor has set for a user. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

- ☑ **CheckLimit (Required).** Fifteen-character numeric. Contains a maximum check limit for payment to this vendor. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

- ☑ **BalanceDue (Required).** Fifteen-character numeric. Contains the current balance due of all vendor documents outstanding. This item is maintained by the system. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

- ☑ **PrintDebit (Required).** Contains either "true" or "false." If "true," defaults "Y" to the print flag on a new document if the document type is "DM."

- ☑ **PaymentStatusCode (Required).** Two characters, any printable types. Contains code indicating the normal payment status for this vendor. Initial value should be "OK."

- ☑ **TermsCode (Required).** Four characters, any printable types. Contains code indicating the normal code for this vendor. Possible values include N30, N10, or 2/10.

- ☑ **SingleCheck (Required).** Contains either "true" or "false". Indicates whether or not the vendor normally requires a single check for each invoice being paid. The value should be "true" for one-time vendors.

- ☑ **EnclosureWithCheck (Required).** Contains either "true" or "false." Indicates whether or not this vendor normally requires a remittance or other document returned with the check.

- ☑ **PaymentPriority (Required).** Two-character numeric. Contains code indicating the normal payment priority of this vendor. Valid codes are 00 through 99.

- ☑ **SortCode (Optional).** Two characters, any printable types. Contains user-defined sort code.

- ☑ **BaseDateCode (Required).** One-character uppercase alphabetic. Contains base date for calculation of document due date. Valid codes consist of D=Document date, C=Current date, and F=First of month. Normally D.

- ☑ **GraceDays (Required).** Two-character numeric. Contains normal number of grace days used for this vendor in calculating the due date.

- ☑ **BankNumber (Optional).** Four characters, any printable types. Contains the bank payments that are usually made for this vendor.

- ☑ **CurrencyCode (Optional).** Four characters, any printable types. Contains normal currency code for this vendor based on the bank.

☑ **GLAccount (Optional).** Sixty characters, any printable types. Contains portion of General Ledger account which may be predefined for this vendor. Contains the exact number of posting fields in the account number, space filled.

☑ **GLContra (Optional).** Sixty characters, any printable types. Contains portion of General Ledger contra-account which may be predefined for this vendor. Contains the exact number of posting fields in the account number, space filled.

☑ **APAccount (Optional).** Twenty-four characters, any printable types. Contains portion of Accounts Payable template which may be predefined for this vendor.

☑ **APContra (Optional).** Twenty-four characters, any printable types. Contains portion of Accounts Payable contra template which may be predefined for vendor.

☑ **UserField1 (Optional).** Ten characters, any printable types. Contains free form field which may be used to enter a code which is necessary in an interfacing system.

☑ **UserField2 (Optional).** Ten characters, any printable types. Same as User Field (1).

☑ **OverrideFlag (Required).** Contains either "true" or "false." Indicates whether or not this vendor allows overrides of computational transactions.

☑ **ShortName (Optional).** Ten characters, any printable types. Contains abbreviated vendor name. This field will default to first ten positions of vendor name if none is entered.

☑ **PaymentName (Optional).** Thirty characters, any printable types. Contains name of remit to vendor.

☑ **PaymentAddress1 (Optional).** Thirty characters, any printable types. Contains line 1 of remit to vendor's address.

☑ **PaymentAddress2 (Optional).** Thirty characters, any printable types. Contains line 2 of remit-to vendor's address.

☑ **PaymentAddress3 (Optional).** Thirty characters, any printable types. Contains line 3 of remit to vendor's address.

☑ **PaymentAddress4 (Optional).** Thirty characters, any printable types. Contains line 4 of remit to vendor's address.

☑ **PaymentCity (Optional).** Thirty characters, any printable types. Contains vendor remit to city name. NOTE: This field is required for 1099 vendors.

☑ **PaymentState (Optional).** Four characters, any printable types. Contains state abbreviation.

☑ **PaymentCountry (Optional).** Three characters, any printable types. Contains vendor remit to country abbreviation.

☑ **PaymentZip (Optional).** Ten characters, any printable types. Contains vendor remit to zip code.

☑ **SICCode (Optional).** Ten characters, any printable types. Contains field for input of a Standard Industrial Class Code by vendor.

☑ **PrimaryProductCode (Optional).** Ten characters, any printable types. Contains field for input of a Primary Product Code by the vendor.

☑ **Vendor1099 (Optional).** One-character numeric. Contains field for input of a code indicating the usual type of 1099 transaction when dealing with this vendor. Valid values are blank or 1 – 9. (Informational use only.)

☑ **CustomerNumber (Optional).** Twenty-four characters, any printable types. Contains field for input of a customer number if the vendor is also a customer (left justified).

☑ **EmployeeNumber (Optional).** Twenty-four characters, any printable types. Contains field for input of an employee number if the vendor is an employee.

☑ **FederalID (Optional).** Twelve characters, any printable types. Contains field for input of the vendor's Federal Identification Number. NOTE: The vendor's Federal ID should be entered in the first 9 positions without dashes. The following should also be entered in position 12 of this field.

   1 = federal ID
   2 = social security number

This designation is required by the IRS for 1099-MISC reporting.

☑ **MinorityCode (Optional).** Two characters, any printable types. Contains field for input of a minority code by vendor.

☑ **ActiveFlag (Optional).** One-character contains either "A" or "I." Field maintained by system when a vendor is deleted.

☑ **MinimumHistoryAmt (Required).** Fifteen-character numeric. Contains minimum amount which will be retained in history for this vendor. If you want all transactions logged to history, use a large minimum negative amount such as -

9999999999.00. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

☑ **Internet (Optional).** One hundred twenty-eight characters, any printable types. Contains descriptive internet information for the vendor.

☑ **EDI (Optional).** One hundred twenty-eight characters, any printable types. Contains descriptive EDI information for the vendor.

☑ **Send (Optional).** Ten-character code. Valid entries must exist in the $PO-SEND table.

☑ **ElectAddr (Optional).** The one hundred twenty-eight character electronic address. If the Send Code is an electronic address, this field should be completed. If not, you will receive an error but processing will not stop.

☑ **POActive.** Identifies the vendor as being active for Purchasing; either "A" or "I."

☑ **FOB (Optional).** Ten characters, any printable type from the $PO-FOB table. Contains the free on board code associated with this vendor. Entries that are not in the above table will be ignored.

☑ **Freight (Optional).** Four characters, any printable type from the $PO-FREIGHT table. Contains the freight payment code normally associated with this vendor. Entries which are not in the above table will be ignored.

☑ **Buyer (Optional).** Four characters, alphanumeric. Contains the code of the buyer associated with this vendor. If the entry does not exist in the $PO-BUYER table, it will be ignored.

☑ **ShipVia (Optional).** Ten characters, any printable type from the $PO-SHIP-VIA table. Contains the carrier code for the carrier usually used by this vendor for shipping. Entries which are not in the above table will be ignored.

☑ **POContact (Optional).** Thirty characters, alphanumeric. Contains the name of the vendor contact person for purchasing matters.

☑ **POContactPhone (Optional).** Twenty characters, any printable type. Contains the phone number of the Purchasing contact.

Add Vendor SOAP Response

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddVendorResponse xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <AddVendorResult>int</AddVendorResult>
      <vendorStatus>
        <Overall>string</Overall>
        <VendorId>string</VendorId>
        <User>string</User>
        <Name>string</Name>
        <Master>string</Master>
        <LastPaymentDate>string</LastPaymentDate>
        <CreditLimit>string</CreditLimit>
        <CheckLimit>string</CheckLimit>
        <BalanceDue>string</BalanceDue>
        <PaymentStatusCode>string</PaymentStatusCode>
        <TermsCode>string</TermsCode>
        <BaseDateCode>string</BaseDateCode>
        <BankNumber>string</BankNumber>
        <CurrencyCode>string</CurrencyCode>
        <GLAccount>string</GLAccount>
        <GLContraAccount>string</GLContraAccount>
        <APAccount>string</APAccount>
        <APContraAccount>string</APContraAccount>
        <SICCode>string</SICCode>
        <PrimaryProductCode>string</PrimaryProductCode>
        <Vendor1099>string</Vendor1099>
        <MinorityCode>string</MinorityCode>
        <MinimumHistoryAmt>string</MinimumHistoryAmt>
        <GraceDays>string</GraceDays>
        <PaymentPriority>string</PaymentPriority>
        <Active>string</Active>
        <Share>string</Share>
        <Authorize>string</Authorize>
        <Send>string</Send>
        <POActive>string</POActive>
        <FOB>string</FOB>
        <Freight>string</Freight>
        <Buyer>string</Buyer>
        <ShipVia>string</ShipVia>
      </vendorStatus>
    </AddVendorResponse>
  </soap:Body>
</soap:Envelope>
```

- **AddVendorResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of the document.

  The remaining portion of the document details the status for adding the vendor. Following is a detailed description of the fields and their values.

  ☑ **Overall.** This is the overall status for adding the vendor. If this value is "Y," the vendor was successful added. An "N" value means that the vendor was not added due to invalid input. See the following status fields for the details of the edit failure.

  ☑ **VendorId.** This status is for the vendor ID. A "Y" value means that the vendor ID is valid. Edit failure values are the following:

  ➢ "1" Field was left blank and is required.

  ➢ "3" Security disallows adding a vendor.

  ➢ "4" The vendor already exists.

  ☑ **User.** This status is for the user field code. A "Y" value means that the user is valid. Edit failure values are the following:

  ➢ "N" User does not exist.

  ➢ "1" User field was left blank and is required.

  ➢ "2" User security failure.

  ☑ **Name.** This status is for the vendor name. A "Y" value means that the vendor name was entered. An "N" value means the field was left blank.

  ☑ **Master.** The master vendor field. A "Y" value means that the master vendor is valid. An "N" value means that an invalid master vendor was entered.

  ☑ **LastPaymentDate.** Last payment date field status. A "Y" value means that a valid date was entered. An "N" value means an invalid date was entered.

  ☑ **CreditLimit.** Credit limit field status. A "Y" value means a valid value was entered. An "N" value means that an invalid value was entered.

  ☑ **CheckLimit.** Check limit field status. A "Y" value means a valid value was entered. An "N" value means that an invalid value was entered.

☑ **BalanceDue.** Balance due field status. A "Y" value means a valid value was entered. An "N" value means that an invalid value was entered.

☑ **PaymentStatusCode.** Payment status code field status. A "Y" value means a valid value was supplied. An "N" value means that the field was left blank or an invalid value was entered.

☑ **TermsCode.** Terms code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **BaseDateCode.** Base date code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **BankNumber.** Bank number field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **CurrencyCode.** Currency code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **GLAccount.** GL Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **GLContraAccount.** GL Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **APAccount.** AP Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **APContraAccount.** AP Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **SICCode.** SIC code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **PrimaryProductCode.** Primary product code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Vendor1099.** Contains field for input of a code indicating the usual type of 1099 transaction when dealing with this vendor. Valid values are blank or 1 – 9.

☑ **MinorityCode.** Minority code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **MinimumHistoryAmt.** Minimum history amount field status. A "Y" value means that a valid amount was entered. An "N" value means that an invalid amount was entered.

☑ **GraceDays.** Grace days field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **PaymentPriority.** Payment priority field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Active.** Active flag field status. A "Y" value means that a valid value was entered (A or I). An "N" value means an invalid value was entered.

☑ **Share.** Share flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **Authorize.** This status is for the authorize flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Send.** This is the Send status. An "N" means that the value does not exist in the $PO-SEND table.

☑ **POActive.** Identifies the vendor as being active for Purchasing; either "A" or "I."

☑ **FOB.** FOB field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Freight.** Freight field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Buyer.** Buyer field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **ShipVia.** Ship via field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

Modify Vendor (ModifyVendor Web Method)

This web service is used to update an Accounts Payable vendor. This Web Method is intended to replace the VMOD GenCon which is used to modify vendors.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the ModifyVendor web method.

```
        .
        .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
VendorModifyStatus statusRec;
VendorModify inputRec = new VendorModify();

//Fill the inputRec object with information on the vendor you wish
to modify.
.
.
Result = fms.ModifyVendor(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Modify Vendor SOAP Request

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyVendor xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <vendorInput>
        <VendorId>string</VendorId>
        <User>string</User>
```

```xml
<Name>string</Name>
<Address1>string</Address1>
<ClearAddress1>boolean</ClearAddress1>
<Address2>string</Address2>
<ClearAddress2>boolean</ClearAddress2>
<Address3>string</Address3>
<ClearAddress3>boolean</ClearAddress3>
<Address4>string</Address4>
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<ClearState>boolean</ClearState>
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<ClearCountry>boolean</ClearCountry>
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<ClearZip>boolean</ClearZip>
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<PaymentAddress1>string</PaymentAddress1>
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<ClearPaymentAddress2>boolean</ClearPaymentAddress2>
<PaymentAddress3>string</PaymentAddress3>
<ClearPaymentAddress3>boolean</ClearPaymentAddress3>
<PaymentAddress4>string</PaymentAddress4>
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<ClearBaseDateCode>boolean</ClearBaseDateCode>
<GraceDays>int</GraceDays>
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<Status>string</Status>
<SICCode>string</SICCode>
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<PrimaryProductCode>string</PrimaryProductCode>
<ClearPrimaryProductCode>boolean</ClearPrimaryProductCode>
<FederalID>string</FederalID>
<ClearFederalID>boolean</ClearFederalID>
<MinorityCode>string</MinorityCode>
<ClearMinorityCode>boolean</ClearMinorityCode>
<Buyer>string</Buyer>
```

```xml
<ClearBuyer>boolean</ClearBuyer>
<POContact>string</POContact>
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<POContactPhone>string</POContactPhone>
<ClearPOContactPhone>boolean</ClearPOContactPhone>
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<ClearFOB>boolean</ClearFOB>
<Freight>string</Freight>
<ClearFreight>boolean</ClearFreight>
<ShipVia>string</ShipVia>
<ClearShipVia>boolean</ClearShipVia>
<CreditRating>string</CreditRating>
<ClearCreditRating>boolean</ClearCreditRating>
<Internet>string</Internet>
<ClearInternet>boolean</ClearInternet>
<EDI>string</EDI>
<ClearEDI>boolean</ClearEDI>
<Send>string</Send>
<ClearSend>boolean</ClearSend>
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<Share>string</Share>
<Authorize>string</Authorize>
<Active>string</Active>
<ClearActive>boolean</ClearActive>
<POActive>string</POActive>
<ClearPOActive>boolean</ClearPOActive>
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<ClearTermsCode>boolean</ClearTermsCode>
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<ClearLastPaymentDate>boolean</ClearLastPaymentDate>
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<ClearCreditLimit>boolean</ClearCreditLimit>
<CheckLimit>decimal</CheckLimit>
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<BalanceDue>decimal</BalanceDue>
<ClearBalanceDue>boolean</ClearBalanceDue>
<MinimumHistoryAmt>decimal</MinimumHistoryAmt>
<ClearMinimumHistoryAmt>boolean</ClearMinimumHistoryAmt>
<PaymentPriority>int</PaymentPriority>
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<GLAccount>string</GLAccount>
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<ClearGLContraAccount>boolean</ClearGLContraAccount>
<APAccount>string</APAccount>
<ClearAPAccount>boolean</ClearAPAccount>
<APContraAccount>string</APContraAccount>
<ClearAPContraAccount>boolean</ClearAPContraAccount>
<Vendor1099>string</Vendor1099>
<ClearVendor1099>boolean</ClearVendor1099>
<CustomerNumber>string</CustomerNumber>
<ClearCustomerNumber>boolean</ClearCustomerNumber>
```

```
            <EmployeeNumber>string</EmployeeNumber>
            <ClearEmployeeNumber>boolean</ClearEmployeeNumber>
            <UserField1>string</UserField1>
            <ClearUserField1>boolean</ClearUserField1>
            <UserField2>string</UserField2>
            <ClearUserField2>boolean</ClearUserField2>
            <OverrideFlag>boolean</OverrideFlag>
            <ClearOverrideFlag>boolean</ClearOverrideFlag>
            <PrintDebit>boolean</PrintDebit>
            <ClearPrintDebit>boolean</ClearPrintDebit>
            <SingleCheck>boolean</SingleCheck>
            <ClearSingleCheck>boolean</ClearSingleCheck>
            <EnclosureWithCheck>boolean</EnclosureWithCheck>
            <ClearEnclosureWithCheck>boolean</ClearEnclosureWithCheck>
            <SortCode>string</SortCode>
            <ClearSortCode>boolean</ClearSortCode>
            <CheckNumber>string</CheckNumber>
            <ClearCheckNumber>boolean</ClearCheckNumber>
            <Fax>string</Fax>
            <ClearFax>boolean</ClearFax>
        </vendorInput>
      </ModifyVendor>
   </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in *The SOAP Response Message* section.

- Following is a description of the fields in vendorInput. Note that each field in this
  section (which is not a required field) has a corresponding Clear*xxx* field. This
  boolean value is used to clear (i.e., set to spaces) the corresponding field. If the
  Clear*xxx* field is "true," the corresponding field is set to spaces. If the Clear*xxx* field is
  "false" and a value is entered in the corresponding field, this will replace the existing
  value for the vendor. If the Clear*xxx* field is "false" and the corresponding field is left
  blank, the existing value for the field is retained for the vendor.

  - ☑ **Vendor Id (Required).** Twenty-four characters, uppercase, alphanumeric (0-9,
    A-Z), left justified, and blank filled to right. Contains unique user-defined Vendor
    Identification. NOTE: Item will be rejected if this entry does not exist in the
    vendor file.

  - ☑ **User Code (Required/Optional).** Three-character numeric user field code. This
    is required only when there is more than one vendor with the entered ID. In this
    case, the user is required to identify the vendor to be updated.

  - ☑ **Name (Optional).** Thirty characters, any printable type. User-defined name of
    the vendor used for purchasing.

☑ **Address1 (Optional).** Thirty characters, any printable type. First line of address information used by purchasing.

☑ **Address2 (Optional).** Thirty characters, any printable type. Second line of address information used by purchasing.

☑ **Address3 (Optional).** Thirty characters, any printable type. Third line of address information used by purchasing.

☑ **Address4 (Optional).** Thirty characters, any printable type. Fourth line of address information used by purchasing.

☑ **City (Optional).** Thirty characters, alphanumeric Vendor City used by Accounts Payable and Purchasing.

☑ **State (Optional).** Four characters, alphanumeric state, or province code. Used for reporting sort/selection.

☑ **Country (Optional).** Three characters, alphanumeric country identifier. Used for reporting sort/selection.

☑ **Zip Code (Optional).** Ten characters, alphanumeric zip, zip + 4, or postal code.

☑ **PaymentName (Optional).** Thirty characters, any printable type. User-defined name of the vendor used for Accounts Payable.

☑ **PaymentAddress1 (Optional).** Thirty characters, any printable type. First line of address information used by Accounts Payable.

☑ **PaymentAddress2 (Optional).** Thirty characters, any printable type. Second line of address information used by Accounts Payable.

☑ **PaymentAddress3 (Optional).** Thirty characters, any printable type. Third line of address information used by Accounts Payable.

☑ **PaymentAddress4 (Optional).** Thirty characters, any printable type. Fourth line of address information used by Accounts Payable.

☑ **PaymentCity (Optional).** Thirty characters, alphanumeric Vendor City used by Accounts Payable and Purchasing.

☑ **PaymentState (Optional).** Four characters, alphanumeric state, or province code.

☑ **PaymentCountry (Optional).** Three characters, alphanumeric country identifier.

☑ **PaymentZip (Optional).** Ten characters, alphanumeric zip, zip + 4, or postal code.

☑ **ContactName (Optional).** Thirty characters, any printable type. Contains name of contact person for Accounts Payable matters.

☑ **ContactPhone (Optional).** Twenty characters, any printable type. Contains the telephone number of the vendor.

☑ **ContactPhone2 (Optional).** Twenty characters, any printable type. Contains an alternate telephone number of the vendor.

☑ **BaseDateCode (Optional).** One-character, uppercase alphabetic. Contains the code to specify the base date for calculation of the document due date. Valid codes are: D – Document Date, C – Current Date, or F – First of Month. All other codes will be ignored.

☑ **GraceDays (Required).** Two-character numeric. Contains normal number of grace days used for this vendor in calculating the due date.

☑ **BankNumber (Optional).** Four characters, any printable type from the $AP-BANK table. Contains the bank from which payments for this vendor are usually made. Entries which are not in the above table will be ignored.

☑ **Status (Optional).** Two-characters. Contains "AP" or "PO." Identifies the vendor as being authorized for AP and PO ("AP") or for Purchasing only ("PO"). Any other value will be ignored.

☑ **SICCode (Optional).** Ten characters, any printable type from the $AP-SIC table. Contains standard industrial class code for the vendor. Entries which are not in the above table will be ignored.

☑ **PrimaryProductCode (Optional).** Ten characters, any printable type from the $AP-PRIM PROD table. Contains the primary product code for this vendor. Entries which are not in the above table will be ignored.

☑ **FederalID (Optional).** Twelve characters, any printable type. Contains the vendor's federal identification number.

☑ **MinorityCode (Optional).** Two characters, any printable type from the $AP-MINORITY table. Contains the minority code for this vendor. Entries which are not in the above table will be ignored.

☑ **Buyer (Optional).** Four characters, alphanumeric. Contains the code of the buyer associated with this vendor. If the entry does not exist in the $PO-BUYER table, it will be ignored.

☑ **POContact (Optional).** Thirty characters, alphanumeric. Contains the name of the vendor contact person for purchasing matters.

☑ **POContactPhone (Optional).** Twenty characters, any printable type. Contains the phone number of the Purchasing contact.

☑ **FOB (Optional).** Ten characters, any printable type from the $PO-FOB table. Contains the free on board code associated with this vendor. Entries that are not in the above table will be ignored.

☑ **Freight (Optional).** Four characters, any printable type from the $PO-FREIGHT table. Contains the freight payment code normally associated with this vendor. Entries which are not in the above table will be ignored.

☑ **ShipVia (Optional).** Ten characters, any printable type from the $PO-SHIP-VIA table. Contains the carrier code for the carrier usually used by this vendor for shipping. Entries which are not in the above table will be ignored.

☑ **CreditRating (Optional).** Six characters, alphabetic. Contains the user-defined credit rating for this vendor.

☑ **Internet (Optional).** One hundred twenty-eight characters any printable types. Contains descriptive internet information for the vendor.

☑ **EDI (Optional).** One hundred twenty-eight characters, any printable types. Contains descriptive EDI information for the vendor.

☑ **Send (Optional).** Ten-character code. Valid entries must exist in the $PO-SEND table.

☑ **ElectAddr (Optional).** The one hundred twenty-eight character electronic address. If the Send Code is an electronic address, this field should be completed. If not, you will receive an error but processing will not stop.

☑ **Share (Optional).** One-character, "Y" or "N." Contains code indicating if this customer can be shared by all users. If not, each user must define a separate version of the customer. Defaults to "Y" if left blank.

☑ **Authorize (Optional).** One-character, contains either "Y" or "N." Contains code indicating if this vendor can be used to add documents or not.

☑ **Active (Optional).** One-character, contains either "A" or "I." Identifies the vendor as being active for Accounts Payable.

☑ **POActive (Optional).** One-character, contains either "A" or "I." Identifies the vendor as being active for Purchasing.

☑ **PaymentStatusCode (Optional).** The two-character payment status code. It must exist in the $AP-PMTSTAT table, if used.

☑ **CurrencyCode (Optional).** Four-character, alphanumeric. Code indicates the currency in which this purchase order is being entered. Valid entries must exist in the $AP-CURRENCY table. If left blank, it will default to "DOM" (domestic).

☑ **TermsCode (Optional).** Four characters, any printable types. The Document Terms Code must exist in the $PO-RATE table.

☑ **LastPaymentDate (Optional).** Eight characters, date type element, CCYY-MM-DD format. Contains the date of the last payment made to this vendor.

☑ **CreditLimit (Required).** Fifteen-character numeric. Contains the credit limit the vendor has set for a user. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

☑ **CheckLimit (Required).** Fifteen-character numeric. Contains a maximum check limit for payment to this vendor. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

☑ **BalanceDue (Required).** Fifteen-character numeric. Contains the current balance due of all outstanding vendor documents. This item is maintained by the system. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

☑ **MinimumHistoryAmt (Required).** Fifteen-character numeric. Contains minimum amount which will be retained in history for this vendor. If you want all transactions logged to history, use a large minimum negative amount such as -9999999999.00. For Amount fields, a value is required. If you do not wish to provide an amount, use 0.00.

☑ **PaymentPriority (Required).** Two-character numeric. Contains code indicating the normal payment priority of this vendor. Valid codes are 00 through 99.

☑ **GLAccount (Optional).** Sixty characters. Contains portion of General Ledger account which may be predefined for this customer.

☑ **GLContraAccount (Optional).** Sixty characters. Contains portion of the General Ledger contra account which may be predefined for this customer.

☑ **APAccount (Optional).** Twenty-four characters, any printable types. Contains portion of Accounts Payable template which may be predefined for this vendor.

☑ **APContraAccount (Optional).** Twenty-four characters, any printable types. Contains portion of Accounts Payable contra template which may be predefined for vendor.

☑ **Vendor1099 (Optional).** One-character numeric. Contains field for input of a code indicating the usual type of 1099 transaction when dealing with this vendor. Valid values are blank or 1 – 9. (Informational use only.)

☑ **CustomerNumber (Optional).** Twenty-four characters, any printable types. Contains field for input of a customer number if the vendor is also a customer (left justified).

☑ **EmployeeNumber (Optional).** Twenty-four characters, any printable types. Contains field for input of an employee number if the vendor is an employee.

☑ **UserField1 (Optional).** Ten characters. Contains free form field which may be used to enter a code which is necessary in an interfacing system.

☑ **UserField2 (Optional).** Ten characters. Contains free form field which may be used to enter a code which is necessary in an interfacing system.

☑ **OverrideFlag (Required).** Contains either "true" or "false." Indicates whether or not this vendor allows overrides of computational transactions.

☑ **PrintDebit (Required).** Contains either "true" or "false." If "true," defaults "Y" to the print flag on a new document if the document type is "DM."

☑ **SingleCheck (Required).** Contains either "true" or "false." Indicates whether or not the vendor normally requires a single check for each invoice being paid. The value should be "true" for one-time vendors.

☑ **EnclosureWithCheck (Required).** Contains either "true" or "false." Indicates whether or not this vendor normally requires a remittance or other document returned with the check.

☑ **SortCode (Optional).** Two characters, any printable types. Contains user-defined sort code.

☑ **CheckNumber (Optional).** Fourteen characters, any printable types. Contains the number of the last check issued to this vendor.

☑ **Fax (Optional).** Twenty characters. Contains the fax number of the customer.

Modify Vendor SOAP Response

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyVendorResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <ModifyVendorResult>int</ModifyVendorResult>
      <vendorStatus>
        <Overall>string</Overall>
        <VendorId>string</VendorId>
        <User>string</User>
        <BaseDateCode>string</BaseDateCode>
        <BankNumber>string</BankNumber>
        <SICCode>string</SICCode>
        <PrimaryProductCode>string</PrimaryProductCode>
        <MinorityCode>string</MinorityCode>
        <Status>string</Status>
        <GraceDays>string</GraceDays>
        <FOB>string</FOB>
        <ShipVia>string</ShipVia>
        <Freight>string</Freight>
        <Buyer>string</Buyer>
        <Active>string</Active>
        <Share>string</Share>
        <Authorize>string</Authorize>
        <Send>string</Send>
        <POActive>string</POActive>
        <PaymentStatusCode>string</PaymentStatusCode>
        <CurrencyCode>string</CurrencyCode>
        <TermsCode>string</TermsCode>
        <LastPaymentDate>string</LastPaymentDate>
        <CreditLimit>string</CreditLimit>
        <CheckLimit>string</CheckLimit>
        <BalanceDue>string</BalanceDue>
        <MinimumHistoryAmt>string</MinimumHistoryAmt>
        <PaymentPriority>string</PaymentPriority>
        <GLAccount>string</GLAccount>
        <GLContraAccount>string</GLContraAccount>
        <APAccount>string</APAccount>
        <APContraAccount>string</APContraAccount>
        <Vendor1099>string</Vendor1099>
      </vendorStatus>
    </ModifyVendorResponse>
  </soap:Body>
</soap:Envelope>
```

- **ModifyVendorResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of the document.

- The remaining portion of the document details the status for modifying the vendor. Following is a detailed description of the fields and their values.

  - ☑ **Overall.** This is the overall status for modifying the vendor. If this value is "Y," the vendor was successful updated. An "N" value means that the vendor not updated due to invalid input. See the following status fields for the details of the edit failure.

  - ☑ **VendorId.** This status is for the vendor ID. A "Y" value means that the vendor ID is valid. Edit failure values are the following:

    - ➢ "N" Vendor does not exist.

    - ➢ "1" Field was left blank and is required.

    - ➢ "2" Vendor does not exist.

    - ➢ "5" Security disallows modifying the vendor.

    - ➢ "8" Could not find a unique entry for the vendor ID.

  - ☑ **User.** This status is for the user field code. A "Y" value means that the user is valid. Edit failure values are the following:

    - ➢ "N" User does not exist

    - ➢ "2" User security failure.

  - ☑ **BaseDateCode.** Base date code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

  - ☑ **BankNumber.** Bank number field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

  - ☑ **SICCode.** SIC code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

  - ☑ **PrimaryProductCode.** Primary product code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

  - ☑ **MinorityCode.** Minority code field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Status.** Vendor status field. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered. (Accounts Payable or Purchasing)

☑ **GraceDays.** Grace days field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **FOB.** FOB field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **ShipVia.** Ship via field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Freight.** Freight field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Buyer.** Buyer field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **Active.** Active flag field status. A "Y" value means that a valid value was entered (A or I). An "N" value means an invalid value was entered.

☑ **Share.** Share flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **Authorize.** This status is for the authorize flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Send.** This is the Send status. An "N" means that the value does not exist in the $PO-SEND table.

☑ **POActive.** Identifies the vendor as being active for Purchasing; either "A" or "I."

☑ **PaymentStatusCode.** Payment status code field status. A "Y" value means a valid value was supplied. An "N" value means that the field was left blank or an invalid value was entered.

☑ **CurrencyCode.** Currency code field status. A "Y" value means that a valid value was entered ($AP-CURR table). An "N" value means an invalid value was entered.

☑ **TermsCode.** This is the terms status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N"   An invalid terms code was entered.

☑ **LastPaymentDate.** Last payment date field status. A "Y" value means that a valid date was entered. An "N" value means an invalid date was entered.

☑ **CreditLimit.** Credit limit field status. A "Y" value means that a valid amount was entered.

☑ **CheckLimit.** Check limit field status. A "Y" value means a valid value was entered. An "N" value means that an invalid value was entered.

☑ **BalanceDue.** Balance due field status. A "Y" value means a valid value was entered. An "N" value means that an invalid value was entered.

☑ **MinimumHistoryAmt.** Minimum history amount field status. A "Y" value means that a valid amount was entered. An "N" value means that an invalid amount was entered.

☑ **PaymentPriority.** Payment priority field status. A "Y" value means that a valid value was entered. An "N" value means that an invalid value was entered.

☑ **GLAccount.** GL Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **GLContraAccount.** GL Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **APAccount.** AP Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **APContraAccount.** AP Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **Vendor1099.** Contains field for input of a code indicating the usual type of 1099 transaction when dealing with this vendor. Valid values are blank or 1 – 9.

Purchasing Batch Creation (CreatePOBatch Web Method)

This web service will create and optionally post a purchasing batch. This web method will perform all functionality of POCV. The SOAP request message is structured to have the batch header information following by an array of purchasing documents. Within each document is an array of line items. The documents and line items can have extended descriptions. Following is a detailed description of the request and response messages for FMS Web Services.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the CreatePOBatch web method.

```
            .
            .
  FMSWebServices fms = new FMSWebServices();
  string FMSUser = "mhandco";
  string FMSPassword1 = "mhandco";
  string FMSPassword2 = null;
  string FMSPassword3 = null;
  string Ledger = "FMSGL";
  string OSUser = "Jim";
  string OSPassword = "JimPassword";
  string Outputdevice = "DISK";
  int Result;
  POBatchStatus statusRec;
  POBatch inputRec = new POBatch();

  //Fill the inputRec object with information for the Purchasing
  batch you wish to create.
  .
  .
  Result = fms.CreatePOBatch(FMSUser, FMSPassword1, FMSPassword2,
  FMSPassword3, Ledger, Outputdevice, OSUser, OSPassword, inputRec,
  out statusRec);
```

Purchasing Batch Creation SOAP Request

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreatePOBatch xmlns="http://www.contentmaster.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <BatchInput>
        <BatchType>string</BatchType>
        <BatchNo>int</BatchNo>
        <Period>string</Period>
        <Year>string</Year>
        <FinCtl>decimal</FinCtl>
        <StatCtl>decimal</StatCtl>
        <JournalCtl>int</JournalCtl>
        <TxCtl>int</TxCtl>
        <Desc1>string</Desc1>
        <Desc2>string</Desc2>
        <Gencon>string</Gencon>
        <User>string</User>
        <UnconditionalUpdate>boolean</UnconditionalUpdate>
        <SubmitType>string</SubmitType>
        <Documents>
          <POBatchDocument>
            <DocumentCtrl>string</DocumentCtrl>
            <RefDocumentCtrl>string</RefDocumentCtrl>
            <LiqFlag>string</LiqFlag>
            <Vendor>string</Vendor>
            <TermsCode>string</TermsCode>
            <ShipTo>string</ShipTo>
            <ShipVia>string</ShipVia>
            <Buyer>string</Buyer>
            <Freight>string</Freight>
            <PrintFlag>string</PrintFlag>
            <DocDate>string</DocDate>
            <DocClass>string</DocClass>
            <Amount>decimal</Amount>
            <Project>string</Project>
            <Status>string</Status>
            <Taxable>string</Taxable>
            <Flag1099>string</Flag1099>
            <RequiredDate>string</RequiredDate>
            <PromiseDate>string</PromiseDate>
            <ExpediteDate>string</ExpediteDate>
            <ExpireDate>string</ExpireDate>
            <Department>string</Department>
```

```
<FOB>string</FOB>
<ConfirmCode>string</ConfirmCode>
<Currency>string</Currency>
<Acknowledge>string</Acknowledge>
<Initials>string</Initials>
<BillLading>string</BillLading>
<Send>string</Send>
<ElectAddr>string</ElectAddr>
<DeliverTo>string</DeliverTo>
<Contract>string</Contract>
<SubContract>string</SubContract>
<FixedAsset>string</FixedAsset>
<SendDocID>string</SendDocID>
<OverrideShippingInfo>string</OverrideShippingInfo>
<ShipName>string</ShipName>
<ShipAddress1>string</ShipAddress1>
<ShipAddress2>string</ShipAddress2>
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      <ShipVia>string</ShipVia>
```

```xml
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                          .
                          .
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                        .
                        .
                </Allocation>
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```

```
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              .
              .
              .
          </POBatchDocument>
        </Documents>
      </BatchInput>
    </CreatePOBatch>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in the *Purchasing Batch Creation SOAP Response* section.

Following is a description of the fields in BatchInput.

- ☑ **BatchType (Required).** Two-character, uppercase, alphabetic. Identifies the
  $BATCH-TYPE-OBJ table entry used to obtain the posting and reporting
  parameters for the Purchasing Batch. Typical values for batch type are: RE -
  Requisition, PO - Purchase Order, and RR - Receiver.

- ☑ **BatchNo (Required/Optional).** Six-character numeric, right justified, zero filled.
  Used along with the batch type code to uniquely identify the batch. If batch type
  does not allow auto-numbering, this field is required. If batch type requires auto-
  numbering, this should be blank or zero.

- ☑ **Period (Required).** Two-character, numeric, right justified, and zero filled.
  Specifies the fiscal period to which the batch is to be posted.

- ☑ **Year (Required).** Four-character, numeric, right justified, and zero filled.
  Specifies the fiscal year to which the batch is to be posted.

- ☑ **FinCtl (Optional).** Seventeen-character, numeric, right justified, zero filled,
  explicit sign, two-position decimal. Contains the net total of the financial
  transactions. Unsigned values are assumed to be positive.

- ☑ **StatCtl (Optional).** If the batch type is configured for statistic control, this is the
  control total for non-financial transactions in the batch.

- ☑ **JournalCtl (Optional).** If the batch type is configured for journal control, this is
  the journal control total for the batch. The number of documents in the batch must
  equal this control total before the batch is valid to post.

☑ **TxCtl (Optional).** If the batch type is configured for transaction control, this is the transaction control total for the batch. The number of line items in the batch must equal this control total before the batch is valid to post.

☑ **Desc1 (Optional).** Batch header description line 1. Fifty characters, any printable types, any justification, and blank filled.

☑ **Desc2 (Optional).** Batch header description line 2. Fifty characters, any printable types, any justification, and blank filled.

☑ **GenCon (Optional).** Sixteen characters, any printable types. Identifies the data entry GenCon, if used.

☑ **User (Required).** Three-character numeric, zero filled. Identifies the Purchasing User, must exist in the $PO-USER table.

☑ **UnconditionalUpdate (Optional).** If "true," create or post the batch (according to configuration of $BT-POST-EXTIF batch type configuration) even if there are edit errors. If "false," delete the batch if there are any edit failures creating the batch. Note that if the batch contains no transactions, it will be deleted no matter the value of this flag.

☑ **SubmitType (Optional).** If the batch is to be posted (i.e., the $BT-POST-EXTIF batch type flag is "Y"), this indicates how the batch is to be posted in FMS. If "S," the batch is to be posted synchronously. In this case if the Web Service is running synchronously, control will not be returned to the Web Service Consumer until the batch is posted. If "B," the batch will be posted background and control will be returned to the Web Service Consumer without waiting for posting to complete.

- **Documents**. This is an array within BatchInput. There will be one instance of the array for each document in the batch. Following is a detailed description of the fields and their values.

  ☑ **DocumentCtrl (Required/Optional).** Twenty-four character document ID. Two-position document type, 19-position document number, and three-position document sequence number. The document type is required and must be specified. If the document number and sequence number are left blank, the system will assign the document number and sequence number will be set to zeros.

  ☑ **RefDocumentCtrl (Optional).** Twenty-four characters. Left justification, blank filled. Identifies the reference document. This document must exist in the $PO-DOCUMENT table.

☑ **LiqFlag (Required).** One-character. Allowable values are "F", "P", or "S" (full/partial/same). Identifies that Reference Document liquidation to take place. If used, Reference Document Type and Reference Document Number specify the Reference Document to be liquidated. Required for FMSPO.

☑ **Vendor (Required).** Twenty-four characters, uppercase, alphanumeric (0-9, A-Z). Identifies the Purchasing Vendor. This vendor must exist. Required for FMSPO.

☑ **TermsCode (Optional).** Four characters, any printable types. The Document Terms Code must exist in the $PO-RATE table.

☑ **ShipTo (Required).** Four-character numeric. Identifies the location to which the items will be shipped. This code must exist in the $PO-LOCATION table.

☑ **ShipVia (Optional).** Ten-character, alphanumeric. Identifies the shipper of the goods. Valid entries must exist in the $PO-SHIP-VIA table.

☑ **Buyer (Optional).** Four-character, alphanumeric. Identifies the buyer with whom the document is associated. Entries must exist in the $PO-BUYER table. If left blank, the value defaults from the document type. For FMSPO, a buyer is required (either defaulted from the document type or contained in the input record). For FMSIN, the buyer code should be "NONE."

☑ **Freight (Optional).** Four-character, alphanumeric. Identifies the method by which freight will be paid. Entries must exist in the $PO-FREIGHT table.

☑ **PrintFlag (Optional).** Two characters. Allowable values are: P = Print via print program, O = On-line print, R = Reprint, or C = Print Change Orders. Used to initialize Print Flag on Document record.

☑ **DocDate (Required).** Eight-character numeric. Document date in CCYY-MM-DD format.

☑ **DocClass (Required).** Two-character alphabetic. Identifies the class (requisition, purchase order, etc.) of the document. Typically, same as Batch Type (RE - Requisition, PO - Purchase Order, RR - Receiver).

☑ **Amount (Optional).** Seventeen-character, numeric, explicit sign, two-position decimal, right justified, and zero filled. Contains the net total of all line items in the document calculated by the system. Enter a value in this field only for blanket orders that have no lines. Otherwise, leave this field blank and the system will calculate the amount.

☑ **Project (Optional).** Ten characters, any printable types. The project associated with this document.

☑ **Status (Optional).** Two-character, alphanumeric. Initial status of the document. The system may alter this value upon posting. It will be edited against the $PO-STATUS table.

☑ **Taxable (Optional).** Y/N flag indicating if the document contains taxable items.

☑ **Flag1099 (Optional).** Y/N flag indicating that services are included in this document and will be included on Form 1099.

☑ **RequiredDate (Optional).** Eight-character numeric. Required date in CCYY-MM-DD format. Date the items on this document are needed. This is the data that is checked for delivery timeliness. The check is at the line item level.

☑ **PromiseDate (Optional).** Eight-character numeric. The date the vendor has promised delivery of the items. Promised Date in CCYY-MM-DD format.

☑ **ExpediteDate (Optional).** Eight-character numeric. The date used to prompt the vendor to be sure of timely delivery. Expedite Date in CCYY-MM-DD format.

☑ **ExpireDate (Optional).** Eight-character numeric. The date the blanket authorization for this document is to expire. Expiration Date in CCYY-MM-DD format.

☑ **Department (Optional).** Four-character, alphanumeric. This code represents the organization unit requesting the goods. It will be edited against the $PO-DEPARTMENT table.

☑ **FOB (Optional).** Ten-character, alphanumeric. Describes the location where title to the goods passes from the vendor. It will be edited against the $PO-FOB table.

☑ **ConfirmCode (Optional).** Ten-character, alphanumeric. The name of the person with whom receipt of the purchase order should be confirmed.

☑ **Currency (Optional).** Four-character, alphanumeric. Code indicates the currency in which this purchase order is being entered. Valid entries must exist in the $AP-CURRENCY table. If left blank, it will default to "DOM" (domestic).

☑ **Acknowledge (Optional).** Y/N flag indicating that receipt of the purchase order should be acknowledged with the person in the Confirm field.

☑ **Initials (Optional).** Four-character, alphanumeric. Initials of the individual entering the document (inventory transactions only).

☑ **BillLading (Optional).** Fourteen-character, alphanumeric. The bill of lading number of the receipt. If freight matching is performed, this field is required.

- ☑ **Send (Optional).** Ten-character code. Valid entries must exist in the $PO-SEND table.

- ☑ **ElectAddr (Optional).** The one hundred twenty-eight character electronic address. If the Send Code is an electronic address, this field should be completed. If not, you will receive an error but processing will not stop.

- ☑ **DeliverTo (Optional).** Ten-character code. Valid entries must exist in the $PO-DELIVER-TO table.

- ☑ **Contract (Optional).** The twenty-four character alphanumeric contract for the document.

- ☑ **SubContract (Optional).** The twenty-four character alphanumeric subcontract for the document.

- ☑ **FixedAsset (Optional).** The one-character fixed asset flag (Y/N) for the document.

- ☑ **SendDocID (Optional).** Valid values are "Y," "N," or blank. If "Y," send the document ID of the document that is created in the NewDocID element in the response message.

- ☑ **OverrideShippingInfo (Optional).** Valid values are "Y" or blank. If "Y," the shipping address on the document will be obtained from the following address fields. Normally, the shipping address defaults from the Ship To location.

- ☑ **ShipName (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-NAME field on the $PO-DOCUMENT record.

- ☑ **ShipAddress1 (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-ADDRESS1 field on the $PO-DOCUMENT record.

- ☑ **ShipAddress2 (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-ADDRESS2 field on the $PO-DOCUMENT record.

- ☑ **ShipAddress3 (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-ADDRESS3 field on the $PO-DOCUMENT record.

- ☑ **ShipAddress4 (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-ADDRESS4 field on the $PO-DOCUMENT record.

☑ **ShipCity (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-CITY field on the $PO-DOCUMENT record.

☑ **ShipState (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-STATE field on the $PO-DOCUMENT record.

☑ **ShipPostalCode (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-POSTALCD field on the $PO-DOCUMENT record.

☑ **ShipCountry (Optional).** Applicable only if OverrideShippingInfo is "Y." If OverrideshippingInfo is "Y," this value will populate the $PODOC-SHIP-COUNTRY field on the $PO-DOCUMENT record.

☑ **ExtendedDesc (Optional).** The extended descriptions for the document. This is an array of the POBatchExtendedDesc element described below. If the document does not have an extended description, then this array should not be included in the request file.

- **LineItems.** LineItems is an array within Documents. There will be one instance of the array for each line item in the document. Following is a detailed description of the fields and their values.

  ☑ **LineNumber (Required/Optional).** Four-character, numeric, right justified, and zero filled. The line number for the document. If this is a new line for the document, this field can be left blank and the line item will be assigned the next available line number for the document. This number is used to adjust an existing line on an existing document. Required for existing documents.

  ☑ **RefDocId (Optional).** Twenty-four characters, left justified, blank filled. This is the reference document type and number if this line item is to have a reference line item associated with it. This document must exist in the $PO-DOCUMENT table.

  ☑ **RefLineNumber (Optional).** Four-character, numeric, right justified, and zero filled. Represents the corresponding line number for this line on the reference document.

  ☑ **LiqFlag (Required).** One-character. Allowable values are "F," "P," or "S" (full/partial/same). Identifies that Reference Document liquidation is to take place. If used, Reference Document Type and Reference Document Number specifies the Reference Document to be liquidated. Required for FMSPO.

☑ **TxCode (Required).** Three-character, numeric, zero filled. Identifies the transaction code. The code must exist in the $PO-TRANS table.

☑ **Account (Optional).** Sixty-character, numeric. Contains General Ledger Account template. Asterisks allowed. The account number must be in normalized form. Fields appear in left to right order according to the account number format for the ledger. Each field occupies exactly its defined external width in the string. Numeric fields are right justified with leading zero fill on the defined width. Alphanumeric fields are left justified, uppercase, with trailing period fill on the defined width. This must be blank when account allocations are entered.

☑ **UOM (Optional).** Two-character, alphanumeric. Specifies the unit of measure for this item. The code must exist in the $PO-UOM table.

☑ **Qty (Optional).** Twenty-character, explicit sign, right justified, zero filled, and six-position decimal. Number of items to be ordered or requested.

☑ **Price (Optional).** Seventeen-character, explicit sign, right justified, zero filled, and six-position decimal. Identifies the unit price.

☑ **Amount (Optional).** Seventeen-character, explicit sign, right justified, zero filled, and two-position decimal. Contains source transaction amount.

☑ **Item (Required).** Twenty-four characters, alphanumeric. Identifies the item to be ordered or requested. Required if $DT-UPD-INVENTORY flag on $PO-DOCTYPE = "Y." In this case, it must have an inventory item record. Item must exist in the $PO-ITEM table.

☑ **Terms (Optional).** Four-character, any printable types. Identifies the keys to $PO-RATE table which is used to identify rate for computational transactions. Code must exist in the $PO-RATE table. This field will default to values based on the transaction code.

☑ **Comment (Optional).** Thirty characters, any printable types, any justification, and blank filled. Source transaction general comment.

☑ **RefField1 (Optional).** Ten characters, any printable types, any justification, and blank filled. User-defined. This field will default to values based on the transaction code.

☑ **RefField2 (Optional).** Ten characters, any printable types, any justification, and blank filled. User-defined. This field will default to values based on the transaction code.

☑ **CompRate (Optional).** Fourteen-character, alphanumeric. If applicable, this field is used to enter the key or part of the key to the $PO-RATE table. This is

used only if the line is a computation or if some unique computation is to be performed upon it.

☑ **StorageLoc (Optional).** Twelve-character, alphanumeric. This is the bin number into which the received items are to be placed. If this is an inventory transaction and the location is multi-bin, this field is required. The location must exist in the $IN-BIN-SEQ table.

☑ **Project (Optional).** Ten characters, any printable types. The project to be associated with this line item.

☑ **Status (Optional).** Two-character, alphanumeric. Initial status of the line. The system may alter this value upon posting. It will be edited against the $PO-STATUS table.

☑ **Taxable (Optional).** The one-character (Y/N) taxable flag for the line item.

☑ **Flag1099 (Optional).** The one-character (Y/N) 1099 flag for the line item.

☑ **RequiredDate (Optional).** Eight-character, numeric. Date the items on this line are needed. This is the date that is checked for delivery timeliness. Required Date is in the CCYY-MM-DD format.

☑ **PromiseDate (Optional).** Eight-character, numeric. The date the vendor has promised delivery of the items. Promised Date is in the CCYY-MM-DD format.

☑ **ExpediteDate (Optional).** Eight-character, numeric. Used to prompt the vendor to assure timely delivery. Expedite Date is in the CCYY-MM-DD format.

☑ **Department (Optional).** Four-character, alphanumeric. This code represents the organizational unit requesting the goods. It will be edited against the $PO-DEPARTMENT table.

☑ **FOB (Optional).** Ten-character, alphanumeric. Describes the location where title to the goods passes from the vendor. It will be edited against the $PO-FOB table.

☑ **ConfirmCode (Optional).** Ten-character, alphanumeric. The name of the person with whom receipt of the purchase order should be confirmed.

☑ **Acknowledge (Optional).** The one-character (Y/N) indicating that receipt of the purchase order should be acknowledged with the person named in the Confirm field.

☑ **Freight (Optional).** The four-character freight code for the line item.

☑ **ShipVia (Optional).** Ten-character, alphanumeric ship via code for the line item. Identifies the shipper of the goods.

☑ **Receiver (Optional).** The one-character (Y/N) flag indicates whether a receiving document will be required for this line item.

☑ **Substitute (Optional).** The one-character (Y/N) flag indicates whether the vendor may substitute another item for the item that was ordered.

☑ **SerialNo (Optional).** The fourteen-character, alphanumeric serial number for the line item. This field is used only if this is an inventory transaction and serial number or lot accounting is used.

☑ **Buyer (Optional).** Four-character, alphanumeric. Identifies the buyer with whom the item is associated. It must match the buyer on the document header. If left blank, the value defaults from the document type. It will be edited against the $PO-BUYER table.

☑ **Comment1 (Optional).** One of two fifty-character comment fields for the line item.

☑ **Comment2 (Optional).** One of two fifty-character comment fields for the line item.

☑ **DeliverTo (Optional).** The ten-character deliver to field for the line item. Valid entries must exist in the $PO-DELIVER-TO table.

☑ **Contract (Optional).** The twenty-four character alphanumeric contract name for the line item.

☑ **SubContract (Optional).** The twenty-four character alphanumeric subcontract name for the line item.

☑ **FixedAsset (Optional).** The one-character (Y/N) fixed asset flag for the line item.

☑ **CustomField1 (Optional).** One of three one-character fields for storing custom data.

☑ **CustomField2 (Optional).** One of three one-character fields for storing custom data.

☑ **CustomField3 (Optional).** One of three one-character fields for storing custom data.

☑ **CustomField4 (Optional).** A six-character field for storing custom data.

- ☑ **FundsCheckAllowOverride (Optional).** This field is only valid if the document type and transaction code are configured to allow overriding funds check failures. In this case, if this field is "Y" and there is a funds check amount failure, the failure will be overridden.

- ☑ **ExpireDate (Optional).** If this item has an expiration date (i.e., for perishable items), it is entered here.

- ☑ **ExtendedDesc (Optional).** Extended descriptions for the line item. This is an array of the POBatchExtendedDesc element described below. If the line item does not have an extended description, then this array should not be included in the request file.

- **POBatchExtendedDesc.** This is an array within LineItems. There will be one instance of the array for each extended description for the document or line item. Following is a detailed description of the fields and their values.

  - ☑ **Type (Required).** The two-character message type for the extended description. This will be concatenated with the ledger class to form the $GTF-FORMAT element in GTF. This element is not displayed in the *Soap Request Message* example above.

  - ☑ **MsgID (Optional).** The 40-character message ID to assign to the description.

  - ☑ **MsgSeq (Optional).** The 10-digit message sequence to assign to the description.

  - ☑ **Text (Optional).** The two-hundred character text for the extended description. Leave blank if a reference to a master message is to be made. Add new text here. This element is not displayed in the *Soap Request Message* example above.

  - ☑ **Percentage (Optional).** One-character (Y/N). Identifies whether or not the POAlloc Amounts entered below are percentages (Y) or amounts (N). This field should be blank if account allocations are not entered on this line item.

  - ☑ **Allocation (Optional).** The allocation accounts and amounts for the Line Item. This is an array of the POAlloc element described below. This array should not be included in the request file if the line item does not have account allocations.

- **POAlloc.** This is an array within the LineItems. It contains the percentage or actual amounts of the document line item to be distributed to multiple general ledger (or other destination ledger) accounts. There will be one instance of the array for each allocation for the line item. Following is a detailed description of the fields and their values.

- ☑ **Account (Required).** Sixty-character, numeric. Contains General Ledger Account template. Asterisks allowed. The account number must be in normalized form. Fields appear in left to right order according to the account number format for the ledger. Each field exactly occupies its defined external width in the string. Numeric fields are right justified with leading zero fill on the defined width. Alphanumeric fields are left justified, uppercase, with trailing period fill on the defined width.

- ☑ **Amount (Required).** This is the allocation amount or allocation percentage of the line item. The following describes the value that should be entered in this field for both Amount and Percentage allocations.

  - ➢ **When Allocating by Amount**. Seventeen-character, explicit sign, right justified, zero filled, and two-position decimal. Represents the amount that this account number will receive in the allocation.

  - ➢ **When Allocating by Percentage**. This is the value of the percentage amount that this account number will receive in the allocation. Typically, 0.01 through 0.99. The "Percentage" flag above must be set to "Y" when entering percentage allocations.

- • **POBatchExtendedDesc.** This is an array within Documents. There will be one instance of the array for each extended description for the document. Following is a detailed description of the fields and their values.

  - ☑ **Type (Required).** The two-character message type for the extended description. This will be concatenated with the ledger class to form the $GTF-FORMAT element in GTF. This element is not displayed in the *Soap Request Message* example above.

  - ☑ **MsgID (Optional).** The 40-character message ID to assign to the description.

  - ☑ **MsgSeq (Optional).** The 10-digit message sequence to assign to the description.

  - ☑ **Text (Optional).** The two-hundred character text for the extended description. Leave blank if a reference to a master message is to be made. Place text here to add new text. This element is not displayed in the *Soap Request Message* example above.

Purchasing Batch Creation SOAP Response

```
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xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
```

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          <AcctSubStatus>unsignedShort</AcctSubStatus>
          <ErrorAcct>string</ErrorAcct>
          <Gencon>string</Gencon>
          <GenconStatus>string</GenconStatus>
          <Rule>string</Rule>
          <RuleStatus>string</RuleStatus>
          <Terms>string</Terms>
          <RequireDate>string</RequireDate>
          <PromiseDate>string</PromiseDate>
          <ExpediteDate>string</ExpediteDate>
          <DeliverTo>string</DeliverTo>
          <FundsCheck>string</FundsCheck>
          <FundsCheckVals>string</FundsCheckVals>
          <ExpireDate>string</ExpireDate>
          <StorageLoc>string</StorageLoc>
          <UOM>string</UOM>
          <SerialNo>string</SerialNo>
          <ExtendedDesc>string</ExtendedDesc>
          <ExtendedDescStatus>
            <POBatchExtendedDescStatus xsi:nil="true" />
            <POBatchExtendedDescStatus xsi:nil="true" />
          </ExtendedDescStatus>
          <Allocation>string</Allocation>
          <AllocateStatus>
            <POAllocStatus>
              <Overall>string</Overall>
              <Account>string</Account>
              <AcctSubStatus>unsignedShort</AcctSubStatus>
              <ErrorAccount>string</ErrorAccount>
              <Gencon>string</Gencon>
              <GenconStatus>string</GenconStatus>
              <FundsCheck>string</FundsCheck>
              <FundsCheckVals>string</FundsCheckVals>
            </POAllocStatus>
                    .
                    .
                    .
          </AllocateStatus>
        </POBatchLineItemStatus>
        <POBatchLineItemStatus>
                .
                .
                .
        </POBatchLineItemStatus>
      </LineItemStatus>
      <ExtendedDescStatus xsi:nil="true" />
    </POBatchDocumentStatus>
    <POBatchDocumentStatus>
        .
        .
        .
```

```
            </POBatchDocumentStatus>
          </DocumentStatus>
        </BatchStatus>
      </CreatePOBatchResponse>
    </soap:Body>
</soap:Envelope>
```

- **CreatePOBatchResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

  Following are detailed descriptions of the fields and their values.

  ☑ **Overall.** This is the overall status of a purchasing batch creation. If this value is "Y," the creation of the purchasing batch was successful and the batch was posted or closed as requested by the input flags.

  ☑ **BatchType.** This is the edit status of the batch type. A "Y" value means edits were successful. A " " value means that it was not edited due to "CreatePOBatchResult" not being successful. If there is an edit failure on batch type, no further edits are performed because of processing dependencies. Edit failure values follow.

    ➢ "N" The batch type does not exist.

    ➢ "1" The batch type is invalid for this application ($BT-BFILE-LOC).

    ➢ "2" The batch type cannot be used by maintenance ($HDR-BATCH-IN-DSET).

    ➢ "3" Cannot be used by this interactive function ($HDR-INTERACT-CREATE).

    ➢ "4" The destination ledger batch type is invalid.

    ➢ "5" The encumbrance batch type is invalid.

    ➢ "6" The secondary ledger batch type is invalid.

    ➢ "7" The secondary encumbrance batch type is invalid.

    ➢ "8" The batch type requires auto numbering.

    ➢ "9" The batch type does not support auto numbering and no number was entered.

☑ **BatchCtl.** This is the edit status of the batch control. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If batch control edits fail, no further edits are performed for the batch.

- ➢ "N" Security failure accessing an existing batch.

- ➢ "1" The batch is posted.

- ➢ "2" The batch is busy.

- ➢ "3" The batch is purged.

- ➢ "4" User security failure accessing the batch.

☑ **User.** This is the edit status of the user. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If user edits fail, no further edits are performed for the batch.

- ➢ "N" The User field was left blank or it does not exist.

- ➢ "1" Security failure.

☑ **BatchId.** When actuals batch creation is successful, this is the batch ID of the batch that was created.

☑ **Period.** This is the edit status of the period edits. A "Y" value means edits were successful. Edit failure values follow. If period edits fail, no further edits are performed for the batch.

- ➢ "N" An invalid period was entered.

- ➢ "1" The period/year is not open (which batch type requires).

- ➢ "2" The period/year is not a (previously) closed period or an open period (which batch type requires).

☑ **Year.** This is the edit status of the year edits. A "Y" value means edits were successful. Edit failure values follow. If year edits fail, no further edits are performed for the batch.

- ➢ "N" An invalid year was entered.

- ➢ "1" The period/year is not open (which batch type requires).

- ➢ "2" The period/year is not a (previously) closed period or an open period (which batch type requires).

☑ **FinCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

   ➢ "N" Control total was required, but not entered.

   ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **StatCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

   ➢ "N" Control total was required, but not entered.

   ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **JournalCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

   ➢ "N" Control total was required, but not entered.

   ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **TxCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

   ➢ "N" Control total was required, but not entered.

   ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **Posted.** This is the posting status if the batch was successfully created. This field is only significant if the "Overall" flag for the batch indicates success. Values for the posting field follow.

   ➢ "S" The batch was submitted for posting synchronously.

   ➢ "B" The batch was submitted for posting background.

   ➢ "V" The batch was closed and set to "valid" status.

   ➢ "C" The batch was closed.

   ➢ "R" The batch was closed and set to "released" status.

> ➢ "I" The batch was closed and set to "invalid" status due to having invalid control totals.

> ➢ "D" The batch was deleted due to edit errors during batch creation.

  ☑ **Documents.** This is the "Overall" status for the documents in the batch. If there was an edit failure on any document (or a line item for a document) in the batch, this will be "N." If all documents were successfully edited, this value will be "Y."

- Following is a description of the status fields in DocumentStatus.

  ☑ **Overall.** This is the overall status for this Document. A "Y" value means edits were successful for the Document and all line items in the document. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors.

  ☑ **DocType.** This is the document type status. A "Y" value means that all edits were successful. Failure status is listed below:

> ➢ "N" An invalid document type was entered.

  ☑ **DocNumber.** This is the document number status. A "Y" value means that all edits were successful. Failure status is listed below:

> ➢ "N" Failure formatting the document number.

  ☑ **DocControl.** This is the document control status. A "Y" value means that all edits were successful. Failure statuses are listed below:

> ➢ "1" The document is being maintained in another batch.

> ➢ "2" The document has an invalid status (type-status failure).

  ☑ **RefDoc.** This is the reference document status. A "Y" value means that all edits were successful. Failure statuses are listed below:

> ➢ "N" Failure formatting the reference document.

> ➢ "1" Reference document type does not exist.

> ➢ "2" The reference document is being maintained in another batch.

> ➢ "3" The reference document has an invalid status (type status failure).

  ☑ **LiqFlag.** This is the liquidation flag status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N" Invalid liquidation flag entered.

☑ **Vendor.** This is the vendor status. A "Y" value means that all edits were successful. Failure statuses are listed below:

➢ "N" The vendor does not exist.

➢ "1" A unique vendor could not be found.

➢ "2" Security failure.

➢ "3" The vendor is inactive.

➢ "4" Vendor is not sharable.

➢ "5" Vendor has an invalid status.

☑ **TermsCode.** This is the terms status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N" An invalid terms code was entered.

☑ **ShipTo.** This is the ship to status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N" An invalid ship to code was entered.

☑ **ShipVia.** This is the ship via status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N" An invalid ship via code was entered.

☑ **Buyer.** This is the buyer status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N" An invalid buyer was entered.

☑ **Freight.** This is the freight status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N" An invalid freight code was entered.

☑ **PrintFlag.** This is the print flag status. A "Y" value means that all edits were successful. Failure status is listed below:

➢ "N" An invalid print flag value was entered.

☑ **DocDate.** This is the document date status. A "Y" value means that all edits were successful. Failure status is listed below:

  ➢ "N" An invalid document date was entered.

☑ **Amount.** This is the amount status. A "Y" value means that all edits were successful. Failure status is listed below:

  ➢ "N" An invalid amount was entered.

☑ **RequireDate.** This is the required date status. A "Y" value means that all edits were successful. Failure status is listed below:

  ➢ "N" An invalid required date was entered.

☑ **PromiseDate.** This is the promise date status. A "Y" value means that all edits were successful. Failure status is listed below:

  ➢ "N" An invalid date was entered.

☑ **ExpediteDate.** This is the expedite date status. A "Y" value means that all edits were successful. Failure status is listed below:

  ➢ "N" An invalid date was entered.

☑ **Rule.** This is the rule processing status. A "Y" value means that all edits were successful. Failure status is listed below:

  ➢ "N" There was an edit failure in the rule.

☑ **RuleStatus.** When the Rule status is "N," this integer value (custom) gives detailed information on the edit failure.

☑ **Send.** This is the Send status. An "N" means that the value does not exist in the $PO-SEND table.

☑ **ElectronicAddr.** This is the electronic address status. An "N" value means that value was left blank and the "Send" entry requires an electronic address.

☑ **DeliverTo.** This is the Deliver To status. An "N" means that the value does not exist in the $PO-DELIVER-TO table.

☑ **LineItems.** This is the overall line item status. An "N" means that there was an edit failure on one of the line items in the document.

☑ **ExtendedDesc.** This is the overall extended description status. An "N" means that there was an edit failure on one of the extended descriptions for the document.

☑ **NewDocID.** The document ID of the new document that is created. When the SendDocID value is "Y" on the request message, this field will contain the ID of the new document created.

- Following is a description of the status fields in LineItemStatus.

  ☑ **Overall.** This is the overall status for this line item. A "Y" value means edits were successful for the line item. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors.

  ☑ **LineNumber.** This is the line number edits status. An "N" value means that an invalid line number was entered.

  ☑ **LineItem.** This is the line item edit status. Failure statuses are listed below:

    ➢ "N" The line item is being maintained in another batch.

    ➢ "1" The reference line for the line item is being maintained in another batch.

  ☑ **RefLine.** This is the reference line status if one is used. An "N" means that the reference line could not be found.

  ☑ **LiqFlag.** This is the liquidation flag status. A "Y" value means that all edits were successful. Failure status is listed below:

    ➢ "N" Invalid liquidation flag entered.

  ☑ **TranCode.** This is the transaction code edit status. An "N" value means that the transaction code could not be found.

  ☑ **Qty.** This is the quantity edit status. An "N" value means that an invalid quantity was entered.

  ☑ **Price.** This is the price edit status. An "N" value means that an invalid price was entered.

  ☑ **Amount.** This is the line item amount edit status. An "N" value means that an invalid amount was entered.

  ☑ **Item.** This is the item edit status. Failure statuses are listed below:

    ➢ "1" A unique purchasing item could not be found.

    ➢ "2" Security failure.

    ➢ "3" The item is inactive.

    ➢ "4" The item is not sharable.

    ➢ "5" An inventory item is required.

➢ "6" There are fewer items than requested.

☑ **Account.** This is the GL account edit status. Failure statuses are listed below:

➢ "N" There was an edit failure on the GL account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

➢ "C" There was an edit failure on the GL contra account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

➢ "E" There was an edit failure on the encumbrance account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

➢ "S" There was an edit failure on the encumbrance summary account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

➢ "A" There was an edit failure on the GL Account. This status is returned when the LineItem has Allocations to be processed, but an account was entered on the LineItem.

☑ **AcctSubStatus.** This is the detailed edit failure status for GL accounts. The "Account" status (above) indicates which GL account failed. Detailed status values are listed below:

➢ "1" Success.

➢ "2" Security failure.

➢ "3" Cannot determine primary target ledger.

➢ "4" Cannot find batch type for primary target ledger.

➢ "5" Cannot find custom table for account edit.

➢ "6" Account contains invalid characters.

➢ "7" Merge template contains invalid characters.

- ➤ "8"   Merge template override not allowed for allocating transactions.

- ➤ "9"   Cannot override account template.

- ➤ "10" Merge template is too long.

- ➤ "11" Account merge results are too long.

- ➤ "12" Accounts are not allowed for this transaction code.

- ➤ "13" Merge of account with template failed.

- ➤ "14" Account cannot be blank.

- ➤ "15" Failure in initializing default posting fields.

- ➤ "16" Failure in defaulting posting fields.

- ➤ "17" Failure in formatting posting fields.

- ➤ "18" Failure in formatting the account.

- ➤ "19" Invalid characters in the account.

- ➤ "20" Reference date is invalid.

- ➤ "21" Data type on this transaction is invalid.

- ➤ "22" Posting period is invalid.

- ➤ "23" Posing year is invalid.

- ➤ "24" Batch description is invalid.

- ➤ "25" Reference fields are invalid.

- ➤ "26" Data entry GenCon failure.

- ➤ "27" Data entry GenCon edit failure.

- ➤ "28" Account entry field length exceeds maximum length.

- ➤ "29" GenCon program trying to execute does not exist.

- ➤ "30" Failure in formatting the template.

- ➢ "31" Invalid entry for the account.

- ➢ "32" Summary funds account contains invalid characters.

- ➢ "33" Data file is invalid.

- ➢ "34" Account/Datatype/Datafile is not authorized.

- ➢ "35" Batch type requires Account/Datatype/Datafile to be authorized.

- ➢ "36" Invalid data type encountered.

- ➢ "37" Improper fields entered for this edit pattern for the account.

- ➢ "38" Account/Datatype/Datafile is not authorized.

- ➢ "39" Batch does not allow auto authorization.

- ➢ "40" Account requires auto authorization and data type is invalid.

- ➢ "41" Account/Datatype/Datafile is not authorized

- ➢ "42" One or more field codes are not authorized.

- ➢ "43" One or more field codes are not authorized.

- ➢ "44" One or more field codes are not authorized.

- ➢ "45" Security violation.

- ➢ "46" Unexpected error occurred during validation.

- ☑ **ErrorAccount.** This is the fully merged and formatted account which failed edits (when "Account" status is "N").

- ☑ **GenCon.** This is the GenCon processing status. A "Y" value means that all edits were successful. An "N" means there was an edit failure in the GenCon.

- ☑ **GenconStatus.** When the GenCon status is "N," this integer value (custom) gives detailed information on the edit failure.

- ☑ **Rule.** This is the rule processing status. A "Y" value means that all edits were successful. An "N" value means there was an edit failure in the rule.

- ☑ **RuleStatus.** When the Rule status is "N," this integer value (custom) gives detailed information on the edit failure.

☑ **Terms.** This is the terms status. An "N" value means that the value does not exist in the $PO-RATE table.

☑ **RequireDate.** This is the required date status. A "Y" value means that all edits were successful. An "N" value means an invalid required date was entered.

☑ **PromiseDate.** This is the promise date status. A "Y" value means that all edits were successful. An "N" value means an invalid promise date was entered.

☑ **ExpediteDate.** This is the expedite date status. A "Y" value means that all edits were successful. An "N" value means an invalid expedite date was entered.

☑ **DeliverTo.** This is the deliver to status. An "N" means that the value does not exist in the $PO-DELIVER-TO table.

☑ **FundsCheck.** This is the funds check status. A "Y" value means edits were successful. An "N" value means that funds check failed. If "O," this means the funds check failed, but was overridden (i.e., Document type/transaction code is configured to allow overriding funds check failures AND the FCOverride input value for the transaction detail was set to "Y").

☑ **FundsCheckVals.** If the FundsCheck status is "N" or "O," this value contains the encumbrance account which failed and the amount (over) of the funds check failure.

☑ **ExpireDate.** This is the line item's item expiration date. A "Y" value means that all edits were successful. Failure status is listed below.

  ➢ "N" Date is invalid

  ➢ "1" Expiration date cannot be blank.

  ➢ "2" Date cannot be before the document date.

☑ **UOM.** This is the line item's unit of measure. A "Y" value means the edit was successful. "N" indicates the edit failed.

☑ **StorageLoc.** This is the line item's storage location. A "Y" value means the edits were successful. Failure status is listed below.

  ➢ "1" Storage location is required.

  ➢ "2" The Storage location's inventory location is invalid.

  ➢ "3" Storage location does not exist.

- ➢ "4" Storage location must be blank.

- ➢ "5" Storage location is out of service and cannot have items added to it.

- ➢ "6" Storage location must exist for the Item-location.

- ➢ "7" Storage location does not exist for Item-location – cannot overdraw.

- ➢ "8" Security error.

- ➢ "9" There are fewer items than requested.

- ☑ **SerialNo.** This is the line item's serial number. A "Y" value means the edits were successful. Failure status is listed below.

  - ➢ "1" Serial number is required for the inventory item.

  - ➢ "2" There are fewer items than requested.

- ☑ **ExtendedDesc.** This is the overall status for adding extended descriptions for the line item. If any one of the extended descriptions experienced an edit failure, this value will be "N."

- ☑ **Allocation.** This is the line item allocated amount status. A "Y" indicates that the LineItem amount was fully allocated by the amounts in the account allocations. An "N" is returned when the LineItem amount was not fully allocated by the amounts in the account allocations. If allocating by Percentage, this value is not returned.

- • Following is a description of the status fields in each instance of the allocations for the line item.

  - ☑ **Overall.** This is the overall status for this allocation. A "Y" value means edits were successful for the allocation. An "N" value means that there were edit errors.

  - ☑ **Account.** This is the GL account edit status. Failure statuses are listed below:

    - ➢ "N" There was an edit failure on the GL account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

    - ➢ "C" There was an edit failure on the GL contra account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct

status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

➢ "E"   There was an edit failure on the encumbrance account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

➢ "S"   There was an edit failure on the encumbrance summary account. See the AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

☑ **AcctSubStatus.** This is the detailed edit failure status for GL accounts. The "Account" status (above) indicates which GL account failed. Detailed status values are listed below:

➢ "1"   Success.

➢ "2"   Security failure.

➢ "3"   Cannot determine primary target ledger.

➢ "4"   Cannot find batch type for primary target ledger.

➢ "5"   Cannot find custom table for account edit.

➢ "6"   Account contains invalid characters.

➢ "7"   Merge template contains invalid characters.

➢ "8"   Merge template override not allowed for allocating transactions.

➢ "9"   Cannot override account template.

➢ "10" Merge template is too long.

➢ "11" Account merge results are too long.

➢ "12" Accounts are not allowed for this transaction code.

➢ "13" Merge of account with template failed.

➢ "14" Account cannot be blank.

➢ "15" Failure in initializing default posting fields.

- ➢ "16" Failure in defaulting posting fields.

- ➢ "17" Failure in formatting posting fields.

- ➢ "18" Failure in formatting the account.

- ➢ "19" Invalid characters in the account.

- ➢ "20" Reference date is invalid.

- ➢ "21" Data type on this transaction is invalid.

- ➢ "22" Posting period is invalid.

- ➢ "23" Posing year is invalid.

- ➢ "24" Batch description is invalid.

- ➢ "25" Reference fields are invalid.

- ➢ "26" Data entry GenCon failure.

- ➢ "27" Data entry GenCon edit failure.

- ➢ "28" Account entry field length exceeds maximum length.

- ➢ "29" GenCon program trying to execute does not exist.

- ➢ "30" Failure in formatting the template.

- ➢ "31" Invalid entry for the account.

- ➢ "32" Summary funds account contains invalid characters.

- ➢ "33" Data file is invalid.

- ➢ "34" Account/Datatype/Datafile is not authorized.

- ➢ "35" Batch type requires Account/Datatype/Datafile to be authorized.

- ➢ "36" Invalid data type encountered.

- ➢ "37" Improper fields entered for this edit pattern for the account.

- ➢ "38" Account/Datatype/Datafile is not authorized.

➤ "39" Batch does not allow auto authorization.

➤ "40" Account requires auto authorization and data type is invalid.

➤ "41" Account/Datatype/Datafile is not authorized

➤ "42" One or more field codes are not authorized.

➤ "43" One or more field codes are not authorized.

➤ "44" One or more field codes are not authorized.

➤ "45" Security violation.

➤ "46" Unexpected error occurred during validation.

☑ **ErrorAccount.** This is the fully merged and formatted account which failed edits (when "Account" status is "N").

☑ **GenCon.** This is the GenCon processing status. A "Y" value means that all edits were successful. An "N" means there was an edit failure in the GenCon.

☑ **GenconStatus.** When the GenCon status is "N," this integer value (custom) gives detailed information on the edit failure.

☑ **FundsCheck.** This is the funds check status. A "Y" value means edits were successful. An "N" value means that funds check failed. If "O," this means the funds check failed, but was overridden (i.e., Document type/transaction code is configured to allow overriding funds check failures AND the FCOverride input value for the transaction detail was set to "Y").

☑ **FundsCheckVals.** If the FundsCheck status is "N" or "O," this value contains the encumbrance account which failed and the amount (over) of the funds check failure.

☑ **Amount.** This is the line item amount edit status. An "N" value means that an invalid amount was entered.

Accounts Payable Batch Creation (CreateAPBatch Web Method)

This web service will create and optionally post an Accounts Payable batch. This web method will perform all functionality of APCV (Accounts Payable Conversion GenCon). The SOAP request message is structured to have the batch header information following by an array of purchasing documents. Within each document is an array of line items. Following is a detailed description of the request and response messages for the FMS Web Service.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the CreateAPBatch web method.

```
        .
        .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
string Outputdevice = "DISK";
int Result;
APBatchStatus statusRec;
APBatch inputRec = new APBatch();

//Fill the inputRec object with information for the account that
you wish to inquire.
.
.
Result = fms.CreateAPBatch(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, Outputdevice, OSUser, OSPassword, inputRec,
out statusRec);
```

AP Batch Creation SOAP Request

```
POST /FMSWebServices/FMSWebServices.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://www.MitchellHumphrey.com/FMSServices/CreateAPBatch"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateAPBatch xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
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      <OSPassword>string</OSPassword>
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        <QuantityCtl>decimal</QuantityCtl>
        <DocumentCtl>int</DocumentCtl>
        <TransactionCtl>int</TransactionCtl>
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        <Gencon>string</Gencon>
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        <UnconditionalUpdate>boolean</UnconditionalUpdate>
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            <PrintFlag>string</PrintFlag>
            <DocType>string</DocType>
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            <Vendor>string</Vendor>
            <User>string</User>
            <DocDate>string</DocDate>
            <Terms>string</Terms>
            <PayDate>string</PayDate>
            <PayStat>string</PayStat>
            <Flag1099>string</Flag1099>
            <Desc>string</Desc>
```

```
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              <SendDocID>string</SendDocID>
              <Transactions>
                <APBatchTransaction>
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                 <RefDate>string</RefDate>
                 <Amount>decimal</Amount>
                 <Account>string</Account>
                 <Rate>string</Rate>
                 <RefField1>string</RefField1>
                 <RefField2>string</RefField2>
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                 <Price>decimal</Price>
                 <Item>string</Item>
                 <FCOverride>string</FCOverride>
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                .
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       <ExistingDocuments>
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            .
            .
        </APBatchExistingDocument>
       </ExistingDocuments>
     </BatchInput>
   </CreateAPBatch>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields are described in the *AP Batch Creation SOAP Response* section.

- Following is a description of the fields in BatchInput.

  - ☑ **BatchType (Required).** The two-character uppercase alphabetic batch type. Must be a valid batch type for creating purchasing or inventory batches and exist in the $BATCH-TYPE-OBJ table for this ledger.

  - ☑ **BatchNo (Required/Optional).** Six numeric characters, right justified and zero filled. If batch type requires auto-numbering, this should be blank or zero. If batch type does not allow auto-numbering, this field is required.

  - ☑ **Period (Required).** Two numeric characters. Fiscal accounting period associated with this batch. Right justified, zero filled. This can be left blank and defaulted for the user.

  - ☑ **Year (Required).** Four numeric characters. The fiscal accounting year for this batch. Right justified, zero filled. This can be left blank and defaulted for the user.

  - ☑ **FinancialCtl (Required/Optional).** Seventeen-character financial net amount, including decimal point and sign 9(13).99-. Right justified, space filled on left. Required if financial net control is used on batch type. If the batch type is configured for financial control, this is the financial control total for the batch.

  - ☑ **QuantityCtl (Required/Optional).** Seventeen characters which represent an ASCII format of the quantity control amount, including decimal point and sign 9(13).99-. Right justified, space filled on left. Required if quantity control is used on batch type. If the batch type is configured for statistic control, this is the control total for non-financial transactions in the batch.

  - ☑ **DocumentCtl (Required/Optional).** Six numeric characters which represent the number of document header records (DN or DH records) in the batch. Right justified, zero filled. Required if journal count is used on batch type. The number of documents in the batch must equal this control total before the batch is valid to post.

  - ☑ **TransactionCtl (Required/Optional).** Six numeric characters which represent the number of transaction records (TD) in the batch. Right justified, zero filled. Required if transaction count totals are used on batch type. The number of line items in the batch must equal this control total before the batch is valid to post.

  - ☑ **Desc1 (Optional).** This is one of two 80-character descriptions which will be displayed on the batch posting report.

☑ **Desc2 (Optional).** This is one of two 80-character descriptions which will be displayed on the batch posting report.

☑ **Bank (Optional).** Four-position, alphanumeric bank ID. Identifies the bank to be used on newly created documents if the vendor does not have a bank.

☑ **GenCon (Optional).** Sixteen characters used to identify the account GenCon sequence to be used (if any). If a value is entered, it will override the GenCon on the batch type.

☑ **User (Required).** Three-character AP user code. All activity within the batch must be for the same user.

☑ **SubmitType (Optional).** If "true" create or post the batch (according to configuration of $BT-POST-EXTIF batch type configuration) even if there are edit errors. If "false," delete the batch if there are any edit failures creating the batch. Note that if the batch contains no transactions, it will be deleted no matter what the value of this flag is.

☑ **UnconditionalUpdate (Optional).** If the batch is to be posted (i.e., the $BT-POST-EXTIF batch type flag is "Y"), this indicates how the batch is to be posted in FMS. If "S," the batch is to be posted synchronously. In this case, if the Web Service is running synchronously, control will not be returned to the Web Service Consumer until the batch is posted. If "B," the batch will be posted background and control will be returned to the Web Service Consumer without waiting for posting to complete.

- **New Documents.** This is an array within BatchInput. There will be one instance of the array for each document in the batch. Following is a detailed description of the fields and their values.

☑ **RefDocType (Optional).** Two characters, represents reference document type. If this document contains a payment transaction, input the payment reference document type here (e.g., CK).

☑ **RefDocNumber (Optional).** Twenty-two characters, represents reference document number. If this document contains a payment transaction, this represents the bank and check number (e.g., BANK12345678).

☑ **LiqFlag (Optional).** Liquidation flag, valid values are "F" (full), "P" (partial), or blank. This applies to invoices that reference FMS purchase order documents only. This will default to the line items if no liquidation flag is entered.

☑ **PrintFlag (Optional).** The one-character print flag for the document. Valid values are "Y," "N," or blank.

☑ **DocType (Required).** The two-character document type. Must exist in the $AP-DOCTYPE table if the batch format is "IN" or "IT."

☑ **DocNumber (Required).** The 22-character document number.

☑ **Vendor (Required).** Twenty-four uppercase, alphanumeric characters (0-9, A-Z), identifies the vendor for this document (uniquely). Can contain vendor ID or short name.

☑ **User (Optional).** Three characters used to identifies the AP user. If this ledger closes with more than one user, then this should be the SAME user as the batch header user UNLESS this batch type is not under period/year control.

☑ **Terms (Optional).** The four-character Accounts Payable terms code for the document. Terms code must exist in $AP-RATE table.

☑ **DocDate (Optional).** The eight-character document date in CCYY-MM-DD format.

☑ **PayDate (Optional).** Eight-character payment date in CCYY-MM-DD format.

☑ **PayStat (Optional).** The two-character payment status code. It must exist in the $AP-PMTSTAT table, if used.

☑ **Flag1099 (Optional).** Any one-character alphanumeric, 0-9, A-Z. For custom reporting purposes only. Not used in 1099-MISC government reporting.

☑ **Desc (Optional).** The thirty-character document description.

☑ **Bank (Optional).** The four-character bank code associated with this document.

☑ **SendDocID (Optional).** When this value is set to "Y," the newly created document ID and index will be sent back in the response message. The newly created document ID will be sent in the NewDocID element. The newly created index will be sent in the NewDocIndex element. If this field is omitted or set to an "N" value, the NewDocID and NewDocIndex elements will not be included in the response.

☑ **UseSepCheck (Optional).** When this value is set to "Y," the SepCheck value will be used to update the Separate Check flag on the new AP document.

☑ **SepCheck (Optional).** If "true," the separate check flag is set ("Y") on the AP document. If "false," the separate check flag is turned off ("N") on the document.

☑ **UsePmtName (Optional).** When this value is set to "Y," the PmtName value will be used to update the Payment Name on the new AP document.

- ☑ **PmtName (Optional).** The thirty-character payment name. Cannot be blank if the Use flag is set to "Y."

- ☑ **UsePmtType (Optional).** When this value is set to "Y," the PmtType value will be used to update the Payment Type on the new AP document.

- ☑ **PmtType (Optional).** The two-character Payment Type. Cannot be blank if the User flag is set to "Y." Must exist in the $AP-PMTTYPE table.

- ☑ **UsePmtAddr (Optional).** When this value is set to "Y," the following Payment Address fields are used to update the Payment Address fields on the new AP document.

- ☑ **PmtAddr1 (Optional).** The thirty-character payment address 1 field

- ☑ **PmtAddr2 (Optional).** The thirty-character payment address 2 field.

- ☑ **PmtAddr3 (Optional).** The thirty-character payment address 3 field.

- ☑ **PmtAddr4 (Optional).** The thirty-character payment address 4 field.

- ☑ **PmtCity (Optional).** The thirty-character payment city field.

- ☑ **PmtState (Optional).** The four-character payment state field.

- ☑ **PmtZip (Optional).** The ten-character payment zip code field.

- ☑ **PmtCountry (Optional).** The four-character payment country code field.

- ☑ **UseContName (Optional).** When this value is set to "Y," the ContName value will be used to update Contact Name on the new AP document.

- ☑ **ContName (Optional).** The thirty-character Contact Name.

- ☑ **UseContPhone (Optional).** When this value is set to "Y," the ContPhone value will be used to update the Contact Phone on the new AP document.

- ☑ **ContPhone (Optional).** The twenty-character Contact Phone.

- ☑ **UseSort (Optional).** When this value is set to "Y," the Sort value will be used to update the Sort Code on the new AP document.

- ☑ **Sort (Optional).** The two-character sort code.

- ☑ **UsePriority (Optional).** When this value is set to "Y," the Priority value will be used to update the Priority Code on the new AP document.

☑ **Priority (Optional).** The two-character priority code.

☑ **UseRemitMsg (Optional).** When this value is set to "Y," the RemitMsg value will be used to update the Remit Message on the new AP document.

☑ **RemitMsg (Optional).** The sixty-character free form remit message.

☑ **UseStsComment (Optional).** When this value is set to "Y," the StsComment value will be used to update the Status Comment on the new AP document.

☑ **StsComment (Optional).** The thirty-character free form status comment.

☑ **UsePerfComment (Optional).** When this value is set to "Y," the PerfComment value will be used to update the Vendor Performance Comment on the new AP document.

☑ **PerfComment (Optional).** The thirty-character free form vendor performance comment.

☑ **UseRecurInfo (Optional).** When this value is set to "Y," the following values will be used to update Recurring Information on the new AP document. When UseRecurInfo is set to "Y," UsePmtType should also be "Y" and a PmtType value provided.

☑ **PmtsDue (Optional).** Three numeric characters which represent the number of payments due for the recurring document. Right justified, zero filled. If PmtType is "F" (full), then this value cannot be greater than one. If included in the interface, must contain a zero if Payments Due is not used.

☑ **PmtFreq (Optional).** Four numeric characters which represent the frequency of payments. One through six represent months. Seven or greater represent days. The Payment Frequency or Payment Plan Code must be entered if recurring documents. If included in the interface, must contain a zero if Payment Frequency is not used.

☑ **PmtPlan (Optional).** Four-character payment plan code. If not blank, at least one entry in the $AP-PAYMENT-PLAN table must begin with the four characters in this field.

☑ **PmtAmt (Optional).** Seventeen-character financial net amount, including decimal point and sign 9(13).99-. Right justified, space filled on left. This value must be zero if the Payment Type is "RP" (Recur Payable) or "F" (Full). If included in the interface, must contain a zero if Payment Amount is not used.

- **Transactions.** Transactions is an array within Documents. There will be one instance of the array for each transaction in the document. Following is a detailed description of the fields and their values.

  - ☑ **TranCode (Required).** Three characters containing a valid AP transaction code (e.g., 101, 701, etc.).

  - ☑ **RefDate (Optional).** Eight characters. The reference date in the CCYY-MM-DD format.

  - ☑ **Amount (Optional).** Seventeen-character transaction amount which is an ASCII format of the transaction amount, including decimal point and sign 9(13).99-. Right justified, space filled on left.

  - ☑ **Account (Optional).** The account number to which to post. The account number must be in normalized form. Fields appear in left to right order according to the account number format for the ledger. Each field occupies its exact defined external width in the string. Numeric fields are right justified with leading zero fill on the defined width. Alphanumeric fields are left justified, uppercase; with trailing period fill on the defined width.

  - ☑ **Rate (Optional).** The four-character rate to be used with computational transaction codes. Required on computational transactions that do not have a default rate.

  - ☑ **RefField1 (Optional).** The ten-character reference field for the line item.

  - ☑ **RefField2 (Optional).** The ten-character reference field for the line item.

  - ☑ **Comment (Optional).** The 30-character free form text comment for the line item.

  - ☑ **Bank (Optional).** The four-character bank code. Required for payment transaction codes.

  - ☑ CheckNumber (Optional). The eight-character, zero filled to the left, check number. Required for payment transaction codes.

  - ☑ **PayeeName (Optional).** Thirty characters used to identify payee for payment transaction codes. Only necessary for one time vendors or if payee name on document differs from vendor payee name.

  - ☑ **Quantity (Optional).** Seventeen characters, right justified, space filled on left. If the amount is negative, use a trailing minus sign in the last position of this field. The quantity of the item. Only used with items.

- ☑ **Price (Optional).** Seventeen characters, right justified, space filled. The price of the line item.

- ☑ **Item (Optional).** The 24-character purchasing, inventory, or vendor item for the line item.

- ☑ **FCOverride (Optional).** If "Y" AND the document type/transaction code allow override of funds check failure, this will allow overriding the funds check failure for the transaction. If "N," funds check failures will fail.

- **ExistingDocuments.** This is an array within ExistingDocuments. There will be one instance of the array for each document in the batch. Following is a detailed description of the fields and their values.

  - ☑ **DocIndex (Optional).** The six-character document index. Right justified, zero filled.

  - ☑ **RefDocType (Optional).** The two-character reference document type. If this document contains a payment transaction, input the payment reference document type here (e.g., CK). If index is left blank, then document type, document number, vendor, and user are required.

  - ☑ **RefDocNumber (Optional).** The 22-character reference document number. If this document contains a payment transaction, this represents the bank and check number (e.g., BANK12345678). If index is left blank, then document type, document number, vendor, and user are required.

  - ☑ **LiqFlag (Optional).** The liquidation type flag for the document. Valid values are "F" (full) or "P" (partial) or blank. This applies to invoices that reference FMS purchase order documents only.

  - ☑ DocType (Optional). The two-character document type. Must exist in the $AP-DOCTYPE table if the batch format is "IN" or "IT." If index is left blank, then document type, document number, vendor, and user are required.

  - ☑ **DocNumber (Optional).** The 22-character document number.

  - ☑ **Vendor (Optional).** Twenty-four characters, uppercase, alphanumeric (0-9, A-Z) used to identify the vendor for this document (uniquely). Can contain vendor index, vendor ID, or short name. If index is left blank, then document type, document number, vendor, and user are required.

  - ☑ **User (Optional).** Three characters used to identifies the AP user. If this ledger closes with more than one user, then this should be the SAME user as the batch header user UNLESS this batch type is not under period/year control.

- ☑ **UseSepCheck (Optional).** When this value is set to "Y," the SepCheck value will be used to update the Separate Check flag on the AP document.

- ☑ **SepCheck (Optional).** If "true," the separate check flag is set ("Y") on the AP document. If "false," the separate check flag is turned off ("N") on the document.

- ☑ **UsePmtName (Optional).** When this value is set to "Y," the PmtName value will be used to update the Payment Name on the AP document.

- ☑ **PmtName (Optional).** The thirty-character payment name. Cannot be blank if the Use flag is set to "Y."

- ☑ **UsePmtType (Optional).** When this value is set to "Y," the PmtType value will be used to update the Payment Type on the AP document.

- ☑ **PmtType (Optional).** The two-character Payment Type. Cannot be blank if the User flag is set to "Y." Must exist in the $AP-PMTTYPE table.

- ☑ **UsePmtAddr (Optional).** When this value is set to "Y," the following Payment Address fields are used to update the Payment Address fields on the AP document. When this value is set to "X," the Payment Address fields on the AP document will be cleared.

- ☑ **PmtAddr1 (Optional).** The thirty-character payment address 1 field.

- ☑ **PmtAddr2 (Optional).** The thirty-character payment address 2 field.

- ☑ **PmtAddr3 (Optional).** The thirty-character payment address 3 field.

- ☑ **PmtAddr4 (Optional).** The thirty-character payment address 4 field.

- ☑ **PmtCity (Optional).** The thirty-character payment city field.

- ☑ **PmtState (Optional).** The four-character payment state field.

- ☑ **PmtZip (Optional).** The ten-character payment zip code field.

- ☑ **PmtCountry (Optional).** The four-character payment country code field.

- ☑ **UseContName (Optional).** When this value is set to "Y," the ContName value will be used to update Contact Name on the AP document. When this value is set to "X," the Contact Name on the AP document will be cleared.

- ☑ **ContName (Optional).** The thirty-character Contact Name.

☑ **UseContPhone (Optional).** When this value is set to "Y," the ContPhone value will be used to update the Contact Phone on the AP document. When this value is set to "X," the Contact Phone on the AP document will be cleared.

☑ **ContPhone (Optional).** The twenty-character Contact Phone.

☑ **UseSort (Optional).** When this value is set to "Y," the Sort value will be used to update the Sort Code on the AP document. When this value is set to "X," the Sort Code on the AP document will be cleared.

☑ **Sort (Optional).** The two-character sort code.

☑ **UsePriority (Optional).** When this value is set to "Y," the Priority value will be used to update the Priority Code on the AP document. When this value is set to "X," the Priority Code on the AP document will be cleared.

☑ **Priority (Optional).** The two-character priority code.

☑ **UseRemitMsg (Optional).** When this value is set to "Y," the RemitMsg value will be used to update the Remit Message on the AP document. When this value is set to "X," the Remit Message on the AP Document will be cleared.

☑ **RemitMsg (Optional).** The sixty-character free form remit message.

☑ **UseStsComment (Optional).** When this value is set to "Y," the StsComment value will be used to update the Status Comment on the AP document. When this value is set to "X," the Status Comment on the AP document will be cleared.

☑ **StsComment (Optional).** The thirty-character free form status comment.

☑ **UsePerfComment (Optional).** When this value is set to "Y," the PerfComment value will be used to update the Vendor Performance Comment on the AP document. When this value is set to "X," the Vendor Performance Comment on the AP document will be cleared.

☑ **PerfComment (Optional).** The thirty-character free form vendor performance comment.

☑ **UseRecurInfo (Optional).** When this value is set to "Y," the following values will be used to update Recurring Information on the AP document. When this value is set to "X," the Recurring Information on the AP document will be cleared. Whether "Y" or "X," edits will be performed on the Recurring Information fields. When UseRecurInfo is set to "Y," UsePmtType should also be "Y" and a PmtType value provided.

☑ **PmtsDue (Optional).** Three numeric characters which represent the number of payments due for the recurring document. Right justified, zero filled. If PmtType is "F" (full), then this value cannot be greater than one. If included in the interface, it must contain a zero if Payments Due is not used.

☑ **PmtFreq (Optional).** Four numeric characters which represent the frequency of payments. One through six represent months. Seven or greater represent days. A Payment Frequency or Payment Plan Code must be entered if recurring documents. If included in the interface, must contain a zero if Payment Frequency is not used.

☑ **PmtPlan (Optional).** Four-character payment plan code. If not blank, at least one entry in the $AP-PAYMENT-PLAN table must begin with the four characters in this field.

☑ **PmtAmt (Optional).** Seventeen-character financial net amount, including decimal point and sign 9(13).99-. Right justified, space filled on left. This value must be zero if the Payment Type is "RP" (Recur Payable) or "F" (Full). If included in the interface, it must contain a zero if Payment Amount is not used.

AP Batch Creation SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
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xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
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```

```
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          <APBatchNewDocumentStatus>
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```

```
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            <DocumentNumber>string</DocumentNumber>
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            <PaymentStatus>string</PaymentStatus>
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          </APBatchExistingDocumentStatus>
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              .
              .
          <APBatchExistingDocumentStatus>
          </APBatchExistingDocumentStatus>
        </existingDocumentStatus>
      </BatchStatus>
    </CreateAPBatchResponse>
  </soap:Body>
</soap:Envelope>
```

- **CreateAPBatchResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- The remaining portion details the batch processing status. Following are detailed descriptions of the fields and their values.

  ☑ **Overall.** This is the overall status of batch creation. If this value is "Y," the creation of the batch was successful and the batch was posted or closed as requested by the input flags.

  ☑ **BatchType.** This is the edit status of the batch type. A "Y" value means the edits were successful. A " " value means that it was not edited due to "CreateAPBatchResult" not being successful. If there is an edit failure on batch type, no further edits are performed because of processing dependencies. Edit failure values follow.

    ➢ "N" The batch type does not exist.

    ➢ "R" The batch type is configured for manual numbering. A number is required to be entered in the Batch No. element in the Request Message.

    ➢ "1" The batch type is invalid for this application ($BT-BFILE-FMT).

- "2" The batch type cannot be used by maintenance transaction ($HDR-BATCH-IN-DSET).

- "3" Unused.

- "4" The destination ledger batch type is invalid.

- "5" The encumbrance batch type is invalid.

- "6" The secondary ledger batch type is invalid.

- "7" The secondary encumbrance batch type is invalid.

- "8" The batch type requires auto numbering.

- "9" The batch type does not support auto numbering and no number was entered.

☑ **BatchId.** This is the Batch ID of the batch which is being created.

☑ **BatchControl.** This is the edit status of the batch control. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If batch control edits fail, no further edits are performed for the batch.

- "N" Security failure accessing an existing batch.

- "1" The batch is posted.

- "2" The batch is busy.

- "3" The batch is purged.

- "4" User security failure accessing the batch.

- "5" Invalid user.

☑ PdYr. This is the edit status of the period/year edits. A "Y" value means edits were successful. Edit failure values follow. If period/year edits fail, no further edits are performed for the batch.

- "N" Period/Year is required.

- "1" The period is not open and the batch type prohibits posting to non-open periods.

- ➢ "2" The period is a future period and batch type prohibits posting to future periods.

- ➢ "3" The period is not in the period range for the ledger.

☑ **FinancialCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means the edits were successful. A " " value means that it was not edited. Edit failure values follow.

- ➢ "N" Control total was required, but not entered.

- ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **QuantityCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means the edits were successful. A " " value means that it was not edited. Edit failure values follow.

- ➢ "N" Control total was required, but not entered.

- ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **DocumentCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means the edits were successful. A " " value means that it was not edited. Edit failure values follow.

- ➢ "N" Control total was required, but not entered.

- ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **TransactionCtl.** This is the edit status of the control total if used by the batch type. A "Y" value means the edits were successful. A " " value means that it was not edited. Edit failure values follow.

- ➢ "N" Control total was required, but not entered.

- ➢ "1" An invalid amount was entered. Edit mask edit failure for the field.

☑ **User.** This is the edit status of the user. A "Y" value means the edits were successful. A " " value means that it was not edited. Edit failure values follow. If user edits fail, no further edits are performed for the batch.

- ➢ "N" The User field was left blank and/or it does not exist.

- ➢ "1" Security failure.

☑ **Bank.** This is the bank status. A "Y" value means the edits were successful.

☑ **Gencon.** This is the edit status of the GenCon. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow.

  ➢ "N"   The entered GenCon does not exist.

  ➢ "1"   No GenCon was supplied and one is required by the batch type.

☑ **Posted.** This is the posting status if the batch was successfully created. This field is only significant if the "Overall" flag for the batch indicates success. Values for the posting field follow.

  ➢ "S"   The batch was submitted for posting synchronously.

  ➢ "B"   The batch was submitted for posting background.

  ➢ "V"   The batch was closed and set to "valid" status.

  ➢ "C"   The batch was closed.

  ➢ "R"   The batch was closed and set to "released" status.

  ➢ "I"   The batch was closed and set to "invalid" status due to having invalid control totals.

  ➢ "D"   The batch was deleted due to edit errors during batch creation.

☑ **NewDocuments.** This is the new document status. A "Y" value means new document edits were successful. An "N" value means that there was an edit failure in a new document. See APBatchNewDocumentStatus array for details on the edit failure.

☑ **ExistingDocuments.** This is the existing document status. A "Y" value means existing document edits were successful. An "N" value means that there was an edit failure in an existing document. See APBatchExistingDocumentStatus array for details on the edit failure.

• Following is a description of the status fields in APBatchNewDocumentStatus.

☑ **Overall.** This is the overall status for this new document. A "Y" value means the edits were successful for the existing document and all transactions in the document. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors for the document or transactions.

☑ **DocType.** This is the document type status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

- ➢ "N" Document type does not exist.

- ➢ "1" Document type is not for IN or IT batches.

- ☑ **BatchFormat.** This is the batch format status. A "Y" value means the edits were successful. An "N" value means the batch file format is incorrect.

- ☑ **User.** This is the user status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

  - ➢ "N" User does not exist.

  - ➢ "1" Security failure.

  - ➢ "2" Invalid user for this batch.

- ☑ **DocControl.** This is the document control status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

  - ➢ "N" Document security failure.

  - ➢ "1" Document exists and user does not allow duplicate documents.

  - ➢ "C" NOT AN EDIT FAILURE. A document with this document control already exists, but the User allows duplicate documents.

- ☑ **LiqFlag.** This is the liquidation flag status. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

- ☑ **Vendor.** This is the vendor status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

  - ➢ "N" Vendor does not exist.

  - ➢ "1" Security failure.

  - ➢ "2" Vendor is not authorized.

  - ➢ "3" Vendor is inactive.

  - ➢ "4" Vendor is not for the Accounts Payable ledger.

  - ➢ "5" Vendor is not sharable.

  - ➢ "6" User template security failure.

- ➢ "7" No unique entry was found.

- ➢ "8" Security failure.

- ☑ **TermsCode.** This is the terms code status. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

- ☑ **Bank.** This is the bank status. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

- ☑ **PaymentStatus.** This is the status of the payment. A "Y" value means the edits were successful. An "N" means the payment status does not exist. A "1" value means there was a security failure.

- ☑ **DocDate.** This is the document date status. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

- ☑ **PrintFlag.** This is the document print flag. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

- ☑ **PaymentDate.** This is the payment date status. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

- ☑ **PmtName.** This is the payment name status. A "Y" value means the edits were successful. An "N" value means an invalid value was entered.

- ☑ **PmtType.** This is the payment type status. A "Y" value means the edits were successful. Edit failure status are listed below:

  - ➢ "N" Invalid value.

  - ➢ "1" PmtType must be entered if UseRecurInfo is "Y."

- ☑ **PmtsDue.** This is the payments due status. A "Y" value means the edits were successful. Edit failure status are listed below:

  - ➢ "N" Invalid value.

  - ➢ "1" Cannot be greater than one (Full Pay).

- ☑ **PmtFreq.** This is the payment frequency status. A "Y" value means the edits were successful. Edit failure status are listed below:

  - ➢ "N" Invalid value.

  - ➢ "1" Frequency or Plan must be entered.

➢ "2" Both Frequency and Plan cannot be entered.

☑ **PmtPlan.** This is the payment plan status. A "Y" value means the edits were successful. Edit failure status are listed below:

➢ "N" Invalid value.

➢ "1" Frequency or Plan must be entered.

➢ "2" Both Frequency and Plan cannot be entered.

☑ **PmtAmt.** This is the payment amount status. A "Y" value means the edits were successful. Edit failure status are listed below:

➢ "N" Invalid value.

➢ "1" Must be a zero when Full or Recur Plan is the payment type.

☑ **TransactionOverall.** This is the overall edit status for the transactions for the document. A "Y" value means the edits were successful. An "N" means there was an edit failure on at least one transaction.

☑ **NewDocID.** The document ID of the new document that is created. When the SendDocID value is "Y" on the request message, this field will contain the ID of the new document created.

☑ **NewDocIndex.** The document index of the new document that is created. When the SendDocIndex value is "Y" on the request message, this field will contain the index of the new document created

- Following is a description of the status fields in APBatchExistingDocumentStatus.

☑ **Overall.** This is the overall status for this existing document. A "Y" value means the edits were successful for the existing Document and all transactions in the document. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors for the document or transactions.

☑ **BatchFormat.** This is the batch format status. A "Y" value means the edits were successful. An "N" value means the batch file format is incorrect.

☑ **User.** This is the user status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

➢ "N" User does not exist.

➢ "1" Security failure.

- ➢ "2" Invalid user for this batch.

- ☑ **DocControl.** This is the document control status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

  - ➢ "N" A unique document could not be found.

  - ➢ "1" Security failure.

  - ➢ "2" Invalid payment status for the document.

  - ➢ "3" Document is being maintained in another batch.

  - ➢ "4" Invalid user for the document.

  - ➢ "5" Invalid vendor for the document.

  - ➢ "6" Vendor on document does not exist.

  - ➢ "7" Security failure for vendor on document.

- ☑ **LiqFlag.** This is the liquidation flag status. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

- ☑ **Vendor.** This is the vendor status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

  - ➢ "N" Vendor does not exist.

  - ➢ "1" Security failure.

  - ➢ "2" Vendor is not authorized.

  - ➢ "3" Vendor is inactive.

  - ➢ "4" Vendor is not for the Accounts Payable ledger.

  - ➢ "5" Vendor is not sharable.

  - ➢ "6" User template security failure.

  - ➢ "7" No unique entry was found.

  - ➢ "8" Security failure.

☑ **DocumentNumber.** This is the document number status. A "Y" value means the edits were successful. An "N" means an invalid value was entered.

☑ **PmtName.** This is the payment name status. A "Y" value means the edits were successful. An "N" value means an invalid value was entered.

☑ **PmtType.** This is the payment type status. A "Y" value means the edits were successful. Edit failure status are listed below:

  ➢ "N"   Invalid value.

  ➢ "1"   PmtType must be entered if UseRecurInfo is "Y."

☑ **PmtsDue.** This is the payments due status. A "Y" value means the edits were successful. Edit failure status are listed below:

  ➢ "N"   Invalid value.

  ➢ "1"   Cannot be greater than one (Full Pay).

☑ **PmtFreq.** This is the payment frequency status. A "Y" value means the edits were successful. Edit failure status are listed below:

  ➢ "N"   Invalid value.

  ➢ "1"   Frequency or Plan must be entered.

  ➢ "2"   Both Frequency and Plan cannot be entered.

☑ **PmtPlan.** This is the payment plan status. A "Y" value means the edits were successful. Edit failure status are listed below:

  ➢ "N"   Invalid value.

  ➢ "1"   Frequency or Plan must be entered.

  ➢ "2"   Both Frequency and Plan cannot be entered.

☑ **PmtAmt.** This is the payment amount status. A "Y" value means the edits were successful. Edit failure status are listed below:

  ➢ "N"   Invalid value.

  ➢ "1"   Must be zero when Full or Recur Plan is the payment type.

☑ **TransactionOverall.** This is the overall edit status for the transactions for the document. A "Y" value means the edits were successful. An "N" means there was an edit failure on at least one transaction.

- Following is a description of the status fields in APBatchTransactionStatus.

  ☑ **Overall.** This is the overall status for this transaction. A "Y" value means the edits were successful for the transaction. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors.

  ☑ **Quantity.** This is the quantity status. A "Y" value means the edits were successful. An "N" value means an invalid value was entered.

  ☑ **Price.** This is the price status. A "Y" value means the edits were successful. An "N" value means an invalid value was entered.

  ☑ **Amount.** This is the amount status. A "Y" value means the edits were successful. An "N" value means an invalid value was entered.

  ☑ **Rate.** This is the rate status. A "Y" value means a valid rate was entered. An "N" value means the rate could not be found.

  ☑ **TranCode.** This is the transaction code status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

  ➢ "N" Transaction code does not exist.

  ➢ "1" Security failure.

  ➢ "2" Not for ledger.

  ☑ **Bank.** This is the bank status. A "Y" value means the edits were successful. Edit failure statuses are listed below:

  ➢ "N" Bank does not exist.

  ➢ "R" Bank is required and was left blank.

  ➢ "1" Security failure.

  ☑ **CheckNumber.** This is the check number status. A "Y" means edits were successful. An "N" means that a check number is required and was not entered.

  ☑ **RefDate.** This is the reference date status. A "Y" value means the edits were successful. An "N" value means an invalid date was entered.

- ☑ **Account.** This is the GL account status. A "Y" value means the edits were successful. An "N" value means there was an edit failure for a GL account. A "C" value means there was an edit failure on the contra account. An "S" value means there was an edit failure on the summary encumbrance account. An "E" value means there was an edit failure on the encumbrance account. See the AccountSubStatus and ErrorAcct statuses for details.

- ☑ **AccountSub.** This is the account sub status for the GL account. This value is only valid when the "Account" status is "N." Edit failure status is listed below:

  - ➢ See Purchasing Line Item for sub status values.

- ☑ **ErrorAcct.** This is the fully merged GL account that failed. This value is only valid when the "Account" status is "N."

- ☑ **Gencon.** This is the GenCon status. A "Y" value means the edits were successful. An "N" value means there was a GenCon failure. See GenconStatus below for the detail sub-status failure.

- ☑ **GenconStatus.** This is the GenCon detail status. This value is only meaningful when the "GenCon" status is "N."

- ☑ **FundsCheck.** This is the funds check status. A "Y" value means the edits were successful. An "N" value means that funds check failed. If "O," this means the funds check failed, but was overridden (i.e., Document type/transaction code is configured to allow overriding funds check failures AND the FCOverride input value for the transaction detail was set to "Y").

- ☑ **FundsCheckVals.** If the FundsCheck status is "N" or "O," this value contains the encumbrance account which failed and the amount (over) of the funds check failure.

Add Customer (AddCustomer Web Method)

This web service is used to add an Accounts Receivable customer. This web method is intended to replace the CUST (customer external interface conversion) GenCon which is used to add customers.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the AddCustomer web method.

```
        .
        .
        .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
CustomerAddStatus statusRec;
CustomerAdd inputRec = new CustomerAdd();

//Fill the inputRec object with information for customer you wish
to add.
.
.
Result = fms.AddCustomer(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Add Customer SOAP Request

```
POST /FMSWebServices/FMSWebServices.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://www.MitchellHumphrey.com/FMSServices/AddCustomer"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddCustomer xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
```

```
<FMSPassword3>string</FMSPassword3>
<Ledger>string</Ledger>
<OSUser>string</OSUser>
<OSPassword>string</OSPassword>
<custInput>
  <CustomerId>string</CustomerId>
  <User>string</User>
  <Master>string</Master>
  <Name>string</Name>
  <ShortName>string</ShortName>
  <CustomerType>string</CustomerType>
  <MinorityCode>string</MinorityCode>
  <GLAccount>string</GLAccount>
  <GLContraAccount>string</GLContraAccount>
  <ARAccount>string</ARAccount>
  <ARContraAccount>string</ARContraAccount>
  <FederalID>string</FederalID>
  <PrimaryProd>string</PrimaryProd>
  <SIC>string</SIC>
  <Status>string</Status>
  <Territory>string</Territory>
  <Vendor>string</Vendor>
  <Address1>string</Address1>
  <Address2>string</Address2>
  <Address3>string</Address3>
  <Address4>string</Address4>
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  <State>string</State>
  <Country>string</Country>
  <Zip>string</Zip>
  <Active>string</Active>
  <ActiveUpdMaster>string</ActiveUpdMaster>
  <Actual>string</Actual>
  <AgeClass>string</AgeClass>
  <CalcRateKey>string</CalcRateKey>
  <PriceRateKey>string</PriceRateKey>
  <ContKey>string</ContKey>
  <UserField1>string</UserField1>
  <UserField2>string</UserField2>
  <BaseDateCode>string</BaseDateCode>
  <ContactName>string</ContactName>
  <ContactPhone1>string</ContactPhone1>
  <ContactPhone2>string</ContactPhone2>
  <ContactTelex>string</ContactTelex>
  <BillName>string</BillName>
  <BillAddress1>string</BillAddress1>
  <BillAddress2>string</BillAddress2>
  <BillAddress3>string</BillAddress3>
  <BillAddress4>string</BillAddress4>
  <BillCity>string</BillCity>
  <BillState>string</BillState>
  <BillCountry>string</BillCountry>
  <BillZip>string</BillZip>
  <BillFormat>string</BillFormat>
  <BillCycle>string</BillCycle>
  <CreditBalanceWO>decimal</CreditBalanceWO>
```

```xml
<CreditLimit>decimal</CreditLimit>
<CreditRating>string</CreditRating>
<CurrencyCode>string</CurrencyCode>
<CurrDaysPeriod>int</CurrDaysPeriod>
<CurrTotalPayment>decimal</CurrTotalPayment>
<LastCreditReviewDate>string</LastCreditReviewDate>
<NextCreditReviewDate>string</NextCreditReviewDate>
<DocDefaultStatus>string</DocDefaultStatus>
<GraceDays>int</GraceDays>
<MinBalanceWO>decimal</MinBalanceWO>
<MinHistBalance>decimal</MinHistBalance>
<NextAgeDate>string</NextAgeDate>
<Override>string</Override>
<PerformAging>string</PerformAging>
<ApplyToSubs>string</ApplyToSubs>
<PrintBill>string</PrintBill>
<PrintStatement>string</PrintStatement>
<RemitTo>string</RemitTo>
<CreditRep>string</CreditRep>
<SalesRep>string</SalesRep>
<SalesRepAlt>string</SalesRepAlt>
<SendAdjMemo>string</SendAdjMemo>
<Share>string</Share>
<ShipName>string</ShipName>
<ShipAddress1>string</ShipAddress1>
<ShipAddress2>string</ShipAddress2>
<ShipAddress3>string</ShipAddress3>
<ShipAddress4>string</ShipAddress4>
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<VendorId>string</VendorId>
<Internet>string</Internet>
<MiscTran>string</MiscTran>
<Flag1>string</Flag1>
<Flag2>string</Flag2>
<Send>string</Send>
<ElectAddr>string</ElectAddr>
 <Individual>string</Individual>
 <LastName>string</LastName>
 <FirstName >string</FirstName>
 <MiddleInitial>string</MiddleInitial>
 <NameSuffix>string</NameSuffix>
 <BusinessName>string</BusinessName>
 <FedTaxIDType>string</FedTaxIDType>
 <SSN>string</SSN>
 <DL>string</DL>
```

```xml
<ContactPhone1Ext>string</ContactPhone1Ext>
<ContactPhone2Type>string</ContactPhone2Type>
<ContactPhone2Ext>string</ContactPhone2Ext>
<Phone1>string</Phone1>
<Phone1Type>string</Phone1Type>
<Phone1Ext>string</Phone1Ext>
<Phone2>string</Phone2>
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<Phone2Ext>string</Phone2Ext>
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<RPAmt64>string</RPAmt64>
<RPAmt65>string</RPAmt65>
<RPAmt66>string</RPAmt67>
<ACHBank>string</ACHBank>
```

```
        <ACHBankNo>string</ACHBankNo>
        <ACHRouteNo>string</ACHRouteNo>
        <ACHAcctType>string</ACHAcctType>
        <ACHValStatus>string</ACHValStatus>
        <ACHAllowDays>string</ACHAllowDays>
        <ACHHoldFlag>string</ACHHoldFlag>
        <fms:ACHSortCode>A</fms:ACHSortCode>
        <ACHUserRef1>string</ACHUserRef1>
        <ACHUserRef2>string</ACHUserRef2>
        <ACHUserRef3>string</ACHUserRef3>
        <ACHUserRef4>string</ACHUserRef4>
        <ACHUserRef5>string</ACHUserRef5>
        <ACHUserRef6>string</ACHUserRef6>
      </custInput>
    </AddCustomer>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields are described in *The SOAP Response Message* section.

☑ **CustomerId (Required).** Twenty-four characters, uppercase, alphanumeric (0-9, A-Z), and left-justified. Contains user-defined customer identification. Updates the $CST-AB-CUST-ID element.

☑ **User Code (Required).** Three-character numeric user field code. Valid value must exist in the $AR-USER table. Updates the $CST-AB-USER element.

☑ **Master (Optional).** Twenty-four (24) uppercase, alphanumeric characters (0-9, A-Z), left justified, space filled to the right. This is the external customer ID of the master customer if different than this customer ID. If there is no master customer for this customer, leave this field blank. The master customer ID must exit in FMS prior to processing this customer.

☑ **Name (Optional).** Seventy characters. Identifies the customer name. Updates the $CST-AA-NAME element. Required if the Individual flag is blank or "N." Must be blank if the Individual flag is "Y."

☑ **ShortName (Optional).** Ten characters. Contains abbreviated customer name. This field will default to the first ten characters of the customer name if left blank. Updates the $CST-AA-SHORT-NAME element.

☑ **CustomerType (Optional).** Two characters. Contains user-defined codes designating the class of customer to which this customer belongs. Valid codes must exist in the $AR-CST-TYPE table. Updates the $CST-AB-CUST-TYPE element.

- ☑ **MinorityCode (Optional).** Two characters. Contains customer's minority code. Value must exist in the $AR-MINORITY table. Updates the $CST-AB-MINORITY element.

- ☑ **GLAccount (Optional).** Sixty characters. Contains portion of General Ledger account which may be predefined for this customer. Updates the $AR-CST-GLACCT element.

- ☑ **GLContraAccount (Optional).** Sixty characters. Contains portion of the General Ledger contra account which may be predefined for this customer. Updates the $AR-CST-GLCACCT element.

- ☑ **ARAccount (Optional).** Twenty-four characters. Contains portion of Accounts Receivable template which may be predefined for this customer. Updates the $CST-AR-ARACCT element.

- ☑ **ARContraAccount (Optional).** Twenty-four characters. Contains portion of Accounts Receivable contra template which may be predefined for this customer. Updates the $CST-AR-ARCACCT element.

- ☑ **FederalId (Optional).** Thirty-two characters. Contains customer's federal identification number. Updates the $CST-AB-FEDERAL-ID element. This data is encrypted in the database.

- ☑ **PrimaryProd (Optional).** Ten characters. Contains the Primary Product code for the customer. Valid values must exist in the $AR-PRIM-PROD table. Updates the $CST-AB-PRIM-PROD element.

- ☑ **SIC (Optional).** Ten characters. Contains the standard industrial classification code. Constant APAR-ALLOW-ALL-SIC defines whether or not this value is edited. When the constant short value is set to one, there are no edits on this field. When 0, the value must exist in the $AR-SIC table. Updates the $CST-AB-SIC-CODE.

- ☑ **Status (Required).** Two characters. Contains code indicating the default payment status for this customer. Initial value should be "OK." Valid values must exist in the $AR-BILL-STATUS table. Updates the $CST-AB-STATUS element.

- ☑ **Territory (Optional).** Eight characters. Contains sales territory code. Valid values must be in the $AR-TERR table. Updates the $CST-AB-TERRITORY element.

- ☑ **Vendor (Optional).** Six-character number, zero filled on left. If this customer is a vendor, the vendor number can be entered here. Updates the $CST-AB-VENDOR element.

☑ **Address1 (Optional).** Thirty-character address field. Contains first customer address line. Updates the $CST-AD-ADDRESS(0) element.

☑ **Address2 (Optional).** Thirty-character address field. Contains second customer address line. Updates the $CST-AD-ADDRESS(1) element.

☑ **Address3 (Optional).** Thirty-character address field. Contains third customer address line. Updates the $CST-AD-ADDRESS(2) element.

☑ **Address4 (Optional).** Thirty-character address field. Contains fourth customer address line. Updates the $CST-AD-ADDRESS(3) element.

☑ **City (Optional).** Thirty-character customer city. Updates the $CST-AD-CITY element.

☑ **State (Optional).** Four-characters. Contains customer state/province abbreviation. Updates the $CST-AD-STATE element.

☑ **Country (Optional).** Four characters. Contains customer country abbreviation. Updates the $CST-AD-COUNTRY element.

☑ **Zip (Optional).** Ten characters. Contains customer postal (zip) code. Updates the $CST-AD-POSTAL-CD element.

☑ **Active (Optional).** One-character, "A" or "I." Field maintained by system when a customer is deleted. Updates the $CST-AR-ACTIVE element.

☑ **ActiveUpdMaster (Optional).** One-character, "Y" or "N." Determines whether or not master customer will be updated for things like high balance when the customer is updated. Updates the $CST-AR-ACTIVE-UP-MC element.

☑ **Actual (Optional).** One-character, "Y" or "N." Contains code indicating if this customer can be used to add documents or not. Updates the $CST-AR-ACTUAL-FLG element. Defaults to "Y" if left blank.

☑ **AgeClass (Optional).** Four characters. Contains code indicating the age or condition of the customer's oldest bill or bill with most unfavorable condition. Valid values must exist in the $AR-AGE table. Updates the $CST-AR-AGE-CLASS element.

☑ **CalcRateKey (Optional).** Fourteen-character rate key. The rate key template which is used in the rate key merge process. Updates the $CST-AR-SKEY-CALCRT element.

☑ **PriceRateKey (Optional).** Fourteen-character rate key. The rate key template used in the merge process to create the item unit price. Updates the $CST-AR-SKEY-PRC-RT element.

☑ **ContKey (Optional).** Fourteen-character continuation key. If more than six rate keys are used by the customer, this contains the key to another set of six rates. Updates the $CST-AR-STDKEY-CONT element.

☑ **UserField1 (Optional).** Ten characters. Optional field for entering additional data for the transaction. Usually used for interfacing to other systems. Updates the $CST-AR-USER1 element.

☑ **UserField2 (Optional).** Ten characters. Optional field for entering additional data for the transaction. Usually used for interfacing to other systems. Updates the $CST-AR-USER2 element.

☑ **BaseDateCode (Required).** Two-character uppercase alphabetic. Contains base date code for calculations of document due date. Valid codes consist of: D = Document Date, C = Current Date, or F = First of Month. Updates the $CST-BASE-DATE-CODE element.

☑ **ContactName (Optional).** Thirty characters. Any printable character. Contains name of contact person for customer matters. Updates the $CST-BCONTACT-NAME element.

☑ **ContactPhone1 (Optional).** Twenty characters. Contains contact telephone number of customer. Updates the $CST-BCONTACT-PHON-1 element.

☑ **ContactPhone2 (Optional).** Twenty characters. Contains second contact telephone number of customer. Updates the $CST-BCONTACT-PHON-2 element.

☑ **ContactTelex (Optional).** Twenty characters. Contains fax number of customer. Updates the $CST-BCONTACT-TELEX element.

☑ **BillName (Optional).** Seventy character bill to name of customer. If blank, defaults to Customer Name or from the Individual name fields. Updates the $CST-BILL-1NAME element.

☑ **BillAddress1 (Optional).** Thirty characters. Contains line 1 of customer's bill to address. If blank, defaults to Customer Address 1. Updates $CST-BILL-ADDRESS(0).

☑ **BillAddress2 (Optional).** Thirty characters. Contains line 2 of customer's bill to address. If blank, defaults to Customer Address 2. Updates $CST-BILL-ADDRESS(1).

- ☑ **BillAddress3 (Optional).** Thirty characters. Contains line 3 of customer's bill to address. If blank, defaults to Customer Address 3. Updates $CST-BILL-ADDRESS(2).

- ☑ **BillAddress4 (Optional).** Thirty characters. Contains line 4 of customer's bill to address. If blank, defaults to Customer Address 4. Updates $CST-BILL-ADDRESS(3).

- ☑ **BillCity (Optional).** Thirty characters. Contains city of customer's bill address. If blank, defaults to Customer City. Updates the $CST-BILL-CITY element.

- ☑ **BillState (Optional).** Four characters. Contains bill to state/province abbreviation. If blank, defaults to Customer state/province. Updates the $CST-BILL-STATE element.

- ☑ **BillCountry (Optional).** Four characters. Contains bill to country abbreviation. If blank, default to Customer country abbreviation. Updates the $CST-BILL-COUNTRY element.

- ☑ **BillZip (Optional).** Ten characters. Contains bill postal (zip) code. If blank, defaults to Customer postal code. Updates the $CST-BILL-POSTAL-CD element.

- ☑ **BillFormat (Optional).** Four-character bill format which is currently not used. Updates the $CST-BILLING-FORMAT element.

- ☑ **BillCycle (Optional).** Two characters. Contains statement cycle code used to group statements for printing. Valid values must exist in the $AR-CYCLE table. Updates the $CST-STMT-CYCLE element.

- ☑ **CreditBalanceWO (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains the minimum credit amount that will be written off for a customer. Updates the $CST-CRD-BAL-WOFF element.

- ☑ **CreditLimit (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains the credit limit the customer has set for a user. Updates the $CST-CREDIT-LIMIT element.

- ☑ **CreditRating (Optional).** Six characters. Any printable characters. Contains user-defined credit rating code. Updates the $CST-CREDIT-RATING element.

- ☑ **CurrencyCode (Required).** Four characters. Contains normal currency code for this customer based on the bank. Valid values must exist in the $AR-CURR table. Updates the $CST-CURR-CODE element.

☑ **CurrDaysPeriod (Optional).** Four characters. Currency period. Updates the $CST-CURR-DAYS-PER element.

☑ **CurrTotalPayment (Optional).** Total payment. Updates the $CST-CURR-TOTAL-PMT element.

☑ **LastCreditReviewDate (Optional).** Eight characters. Contains the last review date of this customer. Updates the $CST-DATE-LCRD-REV element. Must be in the format CCYY-MM-DD.

☑ **NextCreditReviewDate (Optional).** Eight characters in the format CCYY-MM-DD. The next credit review date. Updates the $CST-DATE-NRCD-REV element.

☑ **DocDefaultStatus (Required).** Two characters. Contains code indicating the default payment status for this customer. Initial value should be "OK." Valid values must exist in the $AR-BILL-STATUS table. Updates the $CST-AB-STATUS element.

☑ **GraceDays (Optional).** Two-numeric characters. Contains normal number of grace days used for this customer in calculating the due date. Updates the $CST-GRACE-DAYS element.

☑ **MinBalanceWO (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains the minimum amount that will be written off for a customer. Updates the $CST-MIN-BAL-WOFF element.

☑ **MinHistBalance (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains minimum amount that will be retained in history for this customer. Updates the $CST-MIN-HIST-BAL element.

☑ **NextAgeDate (Optional).** Eight character date in the format CCYY-MM-DD. The system stores the date of the most recent aging process.

☑ **Override (Optional).** One-character, "Y" or "N." Contains flag which indicates if this customer allows override of computational transactions. Updates the $CST-OVERRIDE element.

☑ **PerformAging (Optional).** One-character, "Y" or "N." Indicates if aging should be performed for this customer. Updates the $CST-PERFORM-AGING element.

☑ **ApplyToSubs (Optional).** One-character, "Y" or "N." Determines if receipts to this customer can be applied to its sub-customers, if any. Updates the $CST-APPLY-TO-SUB element.

☑ **PrintBill (Optional).** One-character, "Y" or "N." Contains flag that defaults a "Y" to the print flag on a new document. Updates the $CST-PRINT-BILL element.

☑ **PrintStatement (Optional).** One-character, "Y" or "N." Determines if statement is to print for this customer. Updates the $CST-PRINT-STMT element.

☑ **RemitTo (Optional).** Two characters. Contains code indicating the address to remit receipts for this customer. Valid values must exist in the $AR-REMIT table. Updates the $CST-REMIT-TO-CODE element.

☑ **CreditRep (Optional).** Eight characters. Contains credit representative code. Valid values must exist in the $AR-REP table. Updates the $CST-REP-CREDIT element.

☑ **SalesRep (Optional).** Twenty-four characters. Contains sales representative code. Valid values must exist in the $AR-SALESMAN table. Updates the $CST-REP-SALES element.

☑ **SalesRepAlt (Optional).** Twenty-four character alternate sales representative ID.

☑ **SendAdjMemo (Optional).** Two characters. Valid values "Y" or "N." Indicates that any change in customer's billing should be sent to the customer in writing. Updates the $CST-SEND-ADJ-MEMO element.

☑ **Share (Optional).** One-character, "Y" or "N." Contains code indicating if this customer can be shared by all users. If not, each user must define a separate version of the customer. Defaults to "Y" if left blank. Updates the $CST-SHARE-FLAG element.

☑ **ShipName (Optional).** Thirty-character customer ship name.

☑ **ShipAddress1 (Optional).** Thirty-character customer shipping address line one. Updates the $CST-SHIP-ADDRESS(1) element.

☑ **ShipAddress2 (Optional).** Thirty-character customer shipping address line two. Updates the $CST-SHIP-ADDRESS(2) element.

☑ **ShipAddress3 (Optional).** Thirty-character customer shipping address line three. Updates the $CST-SHIP-ADDRESS(3) element.

☑ **ShipAddress4 (Optional).** Thirty-character customer shipping address line four. Updates the $CST-SHIP-ADDRESS(4) element.

☑ **ShipState (Optional).** Four-characters. Customer shipping state abbreviation. Updates the $CST-SHIP-STATE element.

- ☑ **ShipCountry (Optional).** Four-character customer ship country. Updates the $CST-SHIP-COUNTRY element.

- ☑ **ShipZip (Optional).** Ten-character customer's postal code. Updates the $CST-SHIP-POSTAL-CD element.

- ☑ **ShipClass (Optional).** Two-characters. The customer shipping class. This is an optional, user-defined field. Updates the $CST-SHIPPING-CLASS element.

- ☑ **ShipMethod (Optional).** Ten-character shipping method. Updates the $CST-SHIPPING-METHOD element.

- ☑ **SortCode (Optional).** Two, any printable characters. Contains user-defined sort code. Updates the $CST-SORT-CODE element.

- ☑ **StatementCycle (Optional).** Two characters. Contains statement cycle code used to group statements for printing. Valid values must exist in the $AR-CYCLE table. Updates the $CST-STMT-CYCLE element.

- ☑ **StatementType (Optional).** Two characters: BF = Balance Forward or OI = Open Items. Statement type code used for sorting purposes. Updates the $CST-STMT-TYPE element.

- ☑ **TermsRateKey (Optional).** Four-character terms code. The terms code usually associated with this customer. This code will default to documents when they are created in data entry. This code must exist in the $AR-RATE table.

- ☑ **UpdDocHist (Optional).** One-character, "Y" or "N." Determines whether or not transaction history is to be retained by document. If "Y," can do an Account Summary (AD) inquiry. Updates the $CST-UPDT-DOCHIST element.

- ☑ **UpdDocHistMaster (Optional).** This element is used to determine whether or not (Y/N) to update the history table ($AR-DOCTX-HIST) for the master customer when a sub-customer generates a transaction. Updates the $CST-UPDT-DOCHIST-MC element.

- ☑ **VendorID (Optional).** Twenty-four, uppercase, alphanumeric characters (0-9, A-Z). Contains the Vendor ID from FMSAPT if the customer is also a vendor. Updates $CST-VENDOR-ID element.

- ☑ **Internet (Optional).** One hundred twenty-eight characters any printable types. Contains descriptive internet information for the customer. Updates the $CST-INTERNET element.

- ☑ **MiscTran (Optional).** Three-characters. This element is used to specify the miscellaneous cash transaction code the customer will be using if the standard

miscellaneous cash transaction code is not appropriate. Updates the $CST-MISC-TRAN element.

☑ **Flag1 (Optional).** Twenty-four characters. Optional unedited field for entering additional data for the customer. Updates the $CST-FLAGS1.

☑ **Flag2 (Optional).** Twenty-four characters. Optional unedited field for entering additional data for the customer. Updates the $CST-FLAGS2.

☑ **Send (Optional).** Ten-character send code which must exist in the $AR-SEND table.

☑ **ElectAddr (Optional).** One hundred twenty-eight character electronic address.

☑ **Individual (Optional).** One character. "Y" indicates the customer is an individual, and the Customer Name and Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. "N" or blank indicate the customer is not an individual and the Name field is required. "R" indicates that the individual flag was set, but no last name was given. Updates the $CST-INDIVIDUAL-FLAG element.

☑ **LastName (Optional).** Thirty characters. This represents the last name of an individual. It is required if the Individual flag is set. If the Individual flag is "Y," then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-LAST element.

☑ **FirstName (Optional).** Thirty characters. This represents the first name of an individual. If the Individual flag is "Y," then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-FIRST element.

☑ **MiddleInitial (Optional).** Four characters. This represents the middle initial(s) of an individual. If the Individual flag is "Y," then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-MI element.

☑ **NameSuffix (Optional).** Four characters. This represents the name suffix of an individual, such as Jr. or III. If the Individual flag is "Y," then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-SUFFIX element.

☑ **BusinessName (Optional).** Fifty characters. This is the business name. Updates the $CST-BUSINESS-NAME element.

☑ **FedTaxIDType (Optional).** One character. This element specifies what type of information is stored in the Federal Tax ID field. "F" indicates the Federal Tax ID. "S" indicates the Social Security Number. "O" or blank represents other data. Updates the $CST-AB-FEDID-TYPE element.

☑ **SSN (Optional).** Thirty-two characters. This contains the customer's social security number. Updates the $CST-AB-SSN element. This data will be encrypted in the database.

☑ **DL (Optional).** Thirty-two characters. This contains the customer's driver's license or state ID number. Updates the $CST-AB-DL element. This data will be encrypted in the database.

☑ **ContactPhone1Ext (Optional).** Six characters. This contains the extension associated with ContactPhone1. Updates the $CST-BCONT-PH-EXT-1 element.

☑ **ContactPhone2Type(Optional).** Ten characters. This contains the phone type associated with ContactPhone2. Update the $CST-BCONT-PH-TYPE-2 element. This value, if provided, may exist in the $AR-PHONE table. If it does not, an error will not be issued.

☑ **ContactPhone2Ext (Optional).** Six characters. This contains the extension associated with ContactPhone2. Updates the $CST-BCONT-PH-EXT-2 element.

☑ **Phone1 (Optional).** Twenty characters. This contains another telephone number of customer. Updates the $CST-PHONE-1 element.

☑ **Phone1Type(Optional).** Ten characters. This contains the phone type associated with Phone1. Update $CST-PHONE-1-TYPE element. This value, if provided, may exist in the $AR-PHONE table. If it does not, an error will not be issued.

☑ **Phone1Ext (Optional).** Six characters. This contains the extension associated with Phone1. Updates the $CST-PHONE-1-EXT element.

☑ **Phone2 (Optional).** Twenty characters. This contains another telephone number of the customer. Updates the $CST-PHONE-2 element.

☑ **Phone2Type(Optional).** Ten characters. Contains the phone type associated with Phone2. Update the $CST-PHONE-2-TYPE element. This value, if provided, may exist in the $AR-PHONE table. If it does not, an error will not be issued.

☑ **Phone2Ext (Optional).** Six characters. This contains the extension associated with Phone2. Updates the $CST-PHONE-2-EXT element.

☑ **Phone3 (Optional).** Twenty characters. This contains another telephone number of the customer. Updates the $CST-PHONE-3 element.

☑ **Phone3Type(Optional).** Ten characters. This contains the phone type associated with Phone3. Update the $CST-PHONE-3-TYPE element. This value, if provided, may exist in the $AR-PHONE table. If it doesn't, an error will not be issued.

☑ **Phone3Ext (Optional).** Six characters. This contains the extension associated with Phone3. Updates the $CST-PHONE-3-EXT element.

☑ **Email (Optional).** One hundred twenty-eight characters. This is the customer's email address.

- **Note:** The following fields are repurposed fields. $AR-CUST-CONFIG and $AR-CST-TYPE configuration will control the edits for the fields – whether they are required, required to exist in a backing table, or are in range (for count repurposed fields).

  ☑ **RPIdentity1 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-1 element.

  ☑ **RPIdentity2 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-2 element.

  ☑ **RPIdentity3 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-3 element.

  ☑ **RPIdentity4 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-4 element.

  ☑ **RPText1 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-1 element.

  ☑ **RPText2 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-2 element.

  ☑ **RPText3 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-3 element.

  ☑ **RPText4 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-4 element.

☑ **RPText5 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-5 element.

☑ **RPText6 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-6 element.

☑ **RPText7 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-7 element.

☑ **RPText8 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-8 element.

☑ **RPCnt1 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-1 element.

☑ **RPCnt2 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-2 element.

☑ **RPCnt3 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-3 element.

☑ **RPCnt4 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-4 element.

☑ **RPCnt5 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-5 element.

☑ **RPCnt6 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-6 element.

☑ **RPDate1(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE1 element.

☑ **RPDate2(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE2 element.

☑ **RPDate3(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE3 element.

☑ **RPDate4(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE4 element.

☑ **RPDate5(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE5 element.

☑ **RPDate6(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE6 element.

☑ **RPAmt21 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-1 element.

☑ **RPAmt22 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-2 element.

☑ **RPAmt23 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-3 element.

☑ **RPAmt24 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-4 element.

☑ **RPAmt25 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-5 element.

☑ **RPAmt26 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-5 element.

☑ **RPAmt61 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-1 element.

☑ **RPAmt62 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-2 element.

☑ **RPAmt63 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-3 element.

- ☑ **RPAmt64 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-4 element.

- ☑ **RPAmt65 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-5 element.

- ☑ **RPAmt66 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain a leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-6 element.

- **Note:** The following ACH fields will only be added if the FMS User on the request has ACH capability for FMSAR.

  - ☑ **ACHBank (Optional).** Forty characters. This is the ACH Bank name. Updates the $CST-ACH-BANK-NAME.

  - ☑ **ACHBankNo (Optional).** Thirty-two characters. This is the ACH bank account number. Updates the $CST-ACH-BANK-NO. This field is encrypted in the database.

  - ☑ **ACHRouteNo (Optional).** Thirty-two characters. This is the ACH bank routing number. Updates the $CST-ACH-BANK-ROUTE. This field is encrypted in the database.

  - ☑ **ACHAcctType (Optional).** This is the ACH account type. The value, if entered, should be "C" for checking or "S" for savings. This field is edited for the above values returning a "Y" if valid or an "N" if not. Updates the $CST-ACH-ACCT-TYPE element.

  - ☑ **ACHValStatus (Optional).** This is the ACH validation status. Valid values are blank, 'P' – Pre-Noted, and 'I' – Inactive. Updates the $CST-ACH-VAL-STATUS element.

  - ☑ **ACHAllowDays (Optional).** Three-numeric characters. Contains the ACH allowable days after the invoice date to include for draft processing. This is now checked to make sure the values are numeric. It returns a "Y" if valid and an "N" if not. Updates the $CST-ACH-ALLOW-DAYS element.

  - ☑ **ACHHoldFlag (Optional).** One character. This is the hold flag. Values are blank, "Y" for on hold for draft, and "N" for not on hold for draft. This field is edited for the above values, returning a "Y" if valid and an "N" if not. Updates the $CST-ACH-HOLD-FLAG element.

☑ **ACHSortCode (Optional).** One character. This is the user-defined ACH Sort Code. Updates the $CST-ACH-SORT-CODE element.

☑ **ACHUserRef1 (Optional).** Ten characters. This is the ACH User Reference field 1. Updates the $CST-ACH-USER-REF1 element.

☑ **ACHUserRef2 (Optional).** Ten characters. This is the ACH User Reference field 2. Updates the $CST-ACH-USER-REF2 element.

☑ **ACHUserRef3 (Optional).** Ten characters. This is the ACH User Reference field 3. Updates the $CST-ACH-USER-REF3 element.

☑ **ACHUserRef4 (Optional).** Twenty characters. This is the ACH User Reference field 4. Updates the $CST-ACH-USER-REF4 element.

☑ **ACHUserRef5 (Optional).** Twenty characters. This is the ACH User Reference field 5. Updates the $CST-ACH-USER-REF5 element.

☑ **ACHUserRef6 (Optional).** Thirty characters. This is the ACH User Reference field 6. Updates the $CST-ACH-USER-REF6 element.

Add Customer SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddCustomerResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <AddCustomerResult>int</AddCustomerResult>
      <custStatus>
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        <CustomerId>string</CustomerId>
        <User>string</User>
        <Master>string</Master>
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        <ActiveMaster>string</ActiveMaster>
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        <CurrencyCode>string</CurrencyCode>
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        <CurrTotalPay>string</CurrTotalPay>
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        <DateNextCreditReview>string</DateNextCreditReview>
        <GraceDays>string</GraceDays>
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        <MinimumHistoryBal>string</MinimumHistoryBal>
        <NextAgingDate>string</NextAgingDate>
        <Override>string</Override>
        <PerformAging>string</PerformAging>
        <ApplyToSubs>string</ApplyToSubs>
        <PrintBill>string</PrintBill>
        <PrintStatement>string</PrintStatement>
        <RemitTo>string</RemitTo>
        <CreditRep>string</CreditRep>
        <SalesRep>string</SalesRep>
        <SalesRepAlternate>string</SalesRepAlternate>
        <Share>string</Share>
        <StatementCycle>string</StatementCycle>
        <TermsRateKey>string</TermsRateKey>
```

```xml
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            <ACHHoldFlag>string</ACHHoldFlag>
        </custStatus>
    </AddCustomerResponse>
```

```
    </soap:Body>
  </soap:Envelope>
```

- **AddCustomerResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of the document.

- The remaining portion details the status for adding the customer. Following is a detailed description of the fields and their values.

  - ☑ **Overall.** This is the overall status for adding the Customer. If this value is "Y," the Customer was successful added. An "N" value means that the Customer was not added due to invalid input. See the following status fields for the details of the edit failure.

  - ☑ **CustomerId.** This status is for the Customer ID. A "Y" value means that the Customer ID is valid. Edit failure values are the following:

    - ➢ "N" Field was left blank and is required.

    - ➢ "1" Customer already exists.

    - ➢ "2" Security disallows adding a Customer.

    - ➢ "7" Cannot add CustomerID when it is auto-assigned.

  - ☑ **User.** This status is for the user field code. A "Y" value means that the user is valid. Edit failure values are the following:

    - ➢ "N" User does not exist.

    - ➢ "1" User field was left blank and is required.

    - ➢ "2" User security failure.

  - ☑ **Master.** This status is for the master customer code. A "Y" value means that the master is valid. The edit failure value is the following:

    - ➢ "N" Master does not exist.

  - ☑ **GLAccount.** GL Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **GLContra.** GL Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **ARAccount.** AR Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **ARContra.** AR Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **CustomerType.** Customer type field status. A "Y" value means that a valid value was entered ($AR-CST-TYPE table). An "N" value means an invalid value was entered.

☑ **MinorityCode.** Minority code field status. A "Y" value means that a valid value was entered ($AR-MINORITY table). An "N" value means an invalid value was entered.

☑ **Status.** Customer status field status. A "Y" value means that a valid value was entered ($AR-BILL-STATUS table). An "N" value means an invalid value was entered.

☑ **Active.** Active flag field status. A "Y" value means that a valid value was entered (A or I). An "N" value means an invalid value was entered.

☑ **ActiveMaster.** Customer active master update field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **Actual.** Actual flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **AgeClass.** Age class field status. A "Y" value means that a valid value was entered ($AR-AGE-CLASS table). An "N" value means an invalid value was entered.

☑ **BaseDateCode.** Customer base date code field status. A "Y" value means that a valid value was entered (D, C, F, or T). An "N" value means an invalid value was entered.

☑ **CreditBalWriteoff.** Credit balance write off field status. A "Y" value means that a valid amount was entered.

☑ **CreditLimit.** Credit limit field status. A "Y" value means that a valid amount was entered.

☑ **CurrencyCode.** Currency code field status. A "Y" value means that a valid value was entered ($AR-CURR table). An "N" value means an invalid value was entered.

☑ **CurrDaysPer.** Currency days field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **CurrTotalPay.** Total payment field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **DateLastCreditReview.** Last credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **DateNextCreditReview.** Next credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **GraceDays.** Grace days field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **MinimumBalWriteoff.** Minimum balance write-off field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **MinimumHistoryBal.** Minimum history balance field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **NextAgingDate.** Next aging date field status. A "Y" value means that a valid date was entered. An "N" value means an invalid value was entered.

☑ **Override.** Override flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **PerformAging.** Perform aging flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **ApplyToSubs.** Apply to sub customers flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **PrintBill.** Print bill flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **PrintStatement.** Print statement flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **RemitTo.** Remit to field status. A "Y" value means that a valid value was entered ($AR-REMIT table). An "N" value means an invalid value was entered.

☑ **CreditRep.** Credit representative field status. A "Y" value means that a valid value was entered ($AR-REP table). An "N" value means an invalid value was entered.

☑ **SalesRep.** Sales representative field status. A "Y" value means that a valid value was entered ($AR-SALESMAN table). An "N" value means an invalid value was entered.

☑ **SalesRepAlternate.** Sales representative field status. A "Y" value means that a valid value was entered ($AR-SALESMAN table). An "N" value means an invalid value was entered.

☑ **Share.** Share flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **StatementCycle.** Statement cycle field status. A "Y" value means that a valid value was entered ($AR-CYCLE table). An "N" value means an invalid value was entered.

☑ **TermsRateKey.** Terms rate key field status. A "Y" value means that a valid value was entered ($AR-RATE table). An "N" value means an invalid value was entered.

☑ **UpdateDocHist.** Update document history flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **UpdateDocHistMaster.** Update document history for master flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **MiscTran.** Miscellaneous transaction field status. A "Y" value means that a valid value was entered ($AR-TRANS table). An "N" value means an invalid value was entered.

☑ **PrimaryProd.** Primary product field status. A "Y" value means that a valid value was entered ($AR-PRIMPROD table). An "N" value means an invalid value was entered.

☑ **SIC.** Standard Industry Code field status. A "Y" value means that a valid value was entered ($AR-SIC table). An "N" value means an invalid value was entered.

☑ **Territory.** Territory field status. A "Y" value means that a valid value was entered ($AR-TERR table). An "N" value means an invalid value was entered.

☑ **Vendor.** Vendor index status. A "Y" value means a valid numeric index was entered. An "N" value means that at least one non-numeric character was entered.

☑ **Send.** Send field status. A "Y" value means that a valid value was entered ($AR-SEND table). An "N" value means an invalid value was entered.

☑ **Individual.** Share flag field status. A "Y" value means that a valid value was entered (Y, N, or blank). An "N" value means an invalid value was entered. An "R" value means last name was not given.

☑ **RPIdentity1 – RPIdentity4.** Repurposed Identity 1-4 field status. A "Y" value means a value was entered when required. An "N" value means the required value was not entered.

☑ **RPText1 – RPText8.** Repurposed Text 1-8 field status.

➢ Y – No edit error

➢ N – Required, but not entered

➢ 1 – Required to exist in backing table.

☑ **RPDate1 – RPDate6.** Repurposed date 1-6 field status.

➢ Y – Valid date

➢ N – Invalid date

➢ 1 – Date is required

☑ **RPCnt1 – RPCnt6.** Repurposed count 1-6 field status.

➢ Y – Valid value

➢ N – Invalid count

➢ 1 – Count not in range

☑ **RPAmt21 – RPAmt26.** Repurposed amount (2-decimal) 1-6 field status.

> ➤ Y – Valid value

> ➤ N – Invalid amount

> ➤ 1 – Amount is required

☑ **RPAmt61 – RPAmt66.** Repurposed amount (6-decimal) 1-6 field status.

> ➤ Y – Valid value

> ➤ N – Invalid count

> ➤ 1 – Count not in range

☑ **ACHAcctType.** ACH Account Type field status. A "Y" value means the entered value is valid. An "N" means the value is not valid.

☑ **ACHValStatus.** ACH Valid Status field status. A "Y" value means the entered value is valid. An "N" means the value is not valid.

☑ **ACHAllowDays.** ACH Allow Days field status. A "Y" value means the entered value is valid. An "N" means the value is not numeric.

☑ **ACHHoldFlag.** ACH Hold Flag field status. A "Y" means the entered value is valid. An "N" means the value is not valid.

Modify Customer (ModifyCustomer Web Method)

This web service is used to update an AR Customer. This web method is intended to replace the CMOD (customer modification) GenCon which is used to modify Customers.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the ModifyCustomer web method.

```
        .
        .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
CustomerModifyStatus statusRec;
CustomerModify inputRec = new CustomerModify();

//Fill the inputRec object with information for the account that
you wish to inquire.
.
.
Result = fms.ModifyCustomer(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Modify Customer SOAP Request

```
POST /FMSWebServices/FMSWebServices.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://www.MitchellHumphrey.com/FMSServices/ModifyCustomer"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyCustomer xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
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```

```xml
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```xml
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```xml
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```
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Following is a description of the elements in the SOAP body. Edits for these fields are described in *The SOAP Response Message* section.

- Following is a description of the fields. Note that each field in this section (which is not a required field) has a corresponding Clear*xxx* field. This boolean value is used to clear (i.e., set to spaces) the corresponding field. If the Clear*xxx* field is "true," the corresponding field is set to spaces. If the Clear*xxx* field is "false" and a value is entered in the corresponding field, this will replace the existing value for the customer. If the Clear*xxx* field is "false" and the corresponding field is left blank, the existing value for the field is retained for the customer.

☑ **CustomerId (Required).** Twenty-four characters, uppercase, alphanumeric (0-9, A-Z), left justified. Contains user-defined customer identification. Used to determine which customer is being modified. Updates the $CST-AB-CUST-ID element.

☑ **User Code (Required/Optional).** Blank or three numeric characters. GenCon cannot change this element. Updates the $CST-AB-USER element. If duplicate customers IDs are used, this is a required field.

☑ **Master (Optional).** Twenty-four character master ID.

☑ **Name (Optional).** Seventy characters. Identifies the customer name. Updates the $CST-AA-NAME element. Required if the Individual flag is blank or "N." This must be blank if the Individual flag is "Y."

☑ **ShortName (Optional).** Ten characters. Contains abbreviated customer name. This field will default to the first ten characters of the customer name if left blank. GenCon cannot change this element. Updates the $CST-AA-SHORT-NAME element.

☑ **CustomerType (Optional).** Two characters. Contains user-defined codes designating the class of customer to which this customer belongs. Valid codes must exist in the $AR-CST-TYPE table. Updates the $CST-AB-CUST-TYPE element.

☑ **MinorityCode (Optional).** Two characters. Contains customer's minority code. Value must exist in the $AR-MINORITY table. Updates the $CST-AB-MINORITY element.

☑ **GLAccount (Optional).** Sixty characters. Contains portion of the General Ledger account which may be predefined for this customer.

☑ **GLContraAccount (Optional).** Sixty characters. Contains portion of the General Ledger contra account which may be predefined for this customer.

☑ **ARAccount (Optional).** Twenty-four characters. Contains portion of the Accounts Receivable template which may be predefined for this customer. Updates the $CST-AR-ARACCT element.

☑ **ARContraAccount (Optional).** Twenty-four characters. Contains portion of the Accounts Receivable contra template which may be predefined for this customer. Updates the $CST-AR-ARCACCT element.

☑ **FederalId (Optional).** Thirty-two characters. Contains customer's federal identification number. Updates the $CST-AB-FEDERAL-ID element.

- ☑ **PrimaryProd (Optional).** Ten characters. Contains the Primary Product code for the customer. Valid values must exist in the $AR-PRIM-PROD table. Updates the $CST-AB-PRIM-PROD element.

- ☑ **Status (Optional).** Two characters. Contains code indicating the default payment status for this customer. Initial value should be "OK." Valid values must exist in the $AR-BILL-STATUS table. Updates the $CST-AB-STATUS element.

- ☑ **Territory (Optional).** Eight characters. Contains sales territory code. Valid values must be in the $AR-TERR table. Updates the $CST-AB-TERRITORY element.

- ☑ **Vendor (Optional).** Six characters. System generated customer identification number. GenCon cannot change this element. Updates the $CST-AB-VENDOR element.

- ☑ **Address1 (Optional).** Thirty characters. Contains first customer address line. Updates the $CST-AD-ADDRESS(0) element.

- ☑ **Address2 (Optional).** Thirty characters. Contains first customer address line. Updates the $CST-AD-ADDRESS(1) element.

- ☑ **Address3 (Optional).** Thirty characters. Contains first customer address line. Updates the $CST-AD-ADDRESS(2) element.

- ☑ **Address4 (Optional).** Thirty characters. Contains first customer address line. Updates the $CST-AD-ADDRESS(3) element.

- ☑ **City (Optional).** Thirty characters. Contains customer city. Updates the $CST-AD-CITY element.

- ☑ **State (Optional).** Four characters. Contains customer state/province abbreviation. Updates the $CST-AD-STATE element.

- ☑ **Country (Optional).** Four characters. Contains customer country abbreviation. Updates the $CST-AD-COUNTRY element.

- ☑ **Zip Code (Optional).** Ten characters. Contains customer postal (zip) code. Updates the $CST-AD-POSTAL-CD element.

- ☑ **Active (Optional).** One-character, "A" or "I." Field maintained by system when a customer is deleted. Updates the $CST-AR-ACTIVE element.

- ☑ **ActiveUpdMaster (Optional).** One-character, "Y" or "N." Determines whether or not master customer will be updated when the customer is updated. Updates the $CST-AR-ACTIVE-UP-MC element.

☑ **Actual (Optional).** Indicates if customer is authorized for transactions (Y/N). For example, a customer that is created for the sole purpose of serving as a master customer would not be authorized for postings. Updates the $CST-AR-ACTUAL-FLG element.

☑ **AgeClass (Optional).** Four characters. Contains code indicating the age or condition of the customer's oldest bill or bill with most unfavorable condition. Valid values must exist in the $AR-AGE table. Updates the $CST-AR-AGE-CLASS element.

☑ **CalcRateKey (Optional).** Fourteen-character rate key. The rate key template which is used in the rate key merge process.

☑ **PriceRateKey (Optional).** Fourteen-character rate key. The rate key template used in the merge process to create the item unit price.

☑ **ContKey (Optional).** Fourteen-character continuation key. If more than six rate keys are used by the customer, this contains the key to another set of six rates.

☑ **UserField1 (Optional).** Ten characters. Contains free form field which may be used to enter a code which is necessary in an interfacing system.

☑ **UserField2 (Optional).** Ten characters. Contains free form field which may be used to enter a code which is necessary in an interfacing system.

☑ **BaseDateCode (Optional).** Two characters. One-character, uppercase alphabetic. Contains base date code for calculations of document due date. Valid codes consist of: First Character – D = Document Date, C = Current Date, F = First of Month and Second Character – Blank. Updates the $CST-BASE-DATE-CODE element.

☑ **ContactName (Optional).** Thirty characters. Contains the name of the contact person for customer matters. Updates the $CST-BCONTACT-NAME element.

☑ **ContactPhone1 (Optional).** Twenty characters. Contains the contact telephone number of the customer. Updates the $CT-BCONTACT-PHON-1 element.

☑ **ContactPhone2 (Optional).** Twenty characters. Contains the second contact phone number of the customer. Updates the $CST-BCONTACT-PHON-2 element.

☑ **Fax (Optional).** Twenty characters. Contains the fax number of the customer.

☑ **BillName (Optional).** Seventy characters. Contains the bill to name of the customer. Updates the $CST-BILL-1NAME element. If the RebuildBillName is set to "Y," then the bill name will be overwritten by the Individual Name fields.

- ☑ **BillAddress1 (Optional).** Thirty characters. Contains line 1 of the customer's bill to address. Updates the $CST-BILL-ADDRESS(0).

- ☑ **BillAddress2 (Optional).** Thirty characters. Contains line 1 of the customer's bill to address. Updates the $CST-BILL-ADDRESS(1).

- ☑ **BillAddress3 (Optional).** Thirty characters. Contains line 1 of the customer's bill to address. Updates the $CST-BILL-ADDRESS(2).

- ☑ **BillAddress4 (Optional).** Thirty characters. Contains line 1 of the customer's bill to address. Updates the $CST-BILL-ADDRESS(3).

- ☑ **BillCity (Optional).** Thirty characters. Contains city of the customer's bill to address. Updates the $CST-BILL-CITY element.

- ☑ **BillState (Optional).** Four characters. Contains the bill to country abbreviation. Updates the $CST-BILL-COUNTRY element.

- ☑ **BillCountry (Optional).** Four characters. Contains the bill country abbreviation. Updates the $CST-BILL-COUNTRY element.

- ☑ **BillZip (Optional).** Ten characters. Contains the bill postal (zip) code. Updates the $CST-BILL-POSTAL-CD element.

- ☑ **BillFormat (Optional).** Four-character bill format that is currently not used.

- ☑ **BillCycle (Optional).** Two characters. Contains statement cycle code used to group statements for printing. Valid values must exist in the $AR-CYCLE table. Updates the $CST-STMT-CYCLE element.

- ☑ **CreditBalanceWO (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains the minimum credit amount that will be written off for a customer. Updates the $CST-CRD-BAL-WOFF element.

- ☑ **CreditLimit (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains the credit limit the customer has set for a user. Updates the $CST-CREDIT-LIMIT element.

- ☑ **CreditRating (Optional).** Six characters. Contains the user-defined credit rating code. Updates the $CST-CREDIT-RATING element.

- ☑ **CurrencyCode (Optional).** Four characters. Contains normal currency code for this customer based on the bank. Valid values must exist in the $AR-BANK table. Updates the $CST-CURR-CODE element.

- ☑ **CurrDaysPeriod (Optional).** Four characters. Currency period.

☑ **CurrTotalPayment (Optional).** Total payment.

☑ **LastCreditReviewDate (Optional).** Eight characters. Contains the last review date of this customer. Updates the $CST-DATE-LCRD-REV element. Must be in the format CCYY-MM-DD.

☑ **NextCreditReviewDate (Optional).** Eight characters in the CCYY-MM-DD format. The next credit revision date.

☑ **DocDefaultStatus (Optional).** Two-characters. The status code indicates the billing status of invoices created for this customer. The code must be valid in the $AR-BILL-STATUS table.

☑ **GraceDays (Optional).** Two numeric characters. Contains normal number of grace days used for this customer in calculating the due date. Updates the $CST-GRACE-DAYS element.

☑ **Min BalanceWO (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains the minimum amount that will be written off for a customer. Updates the $CST-MIN-BAL-WOFF element.

☑ **MinHistBalance (Optional).** Seventeen characters. Must contain leading sign for negatives. Contains minimum amount that will be retained in history for this customer. Updates the $CST-MIN-HIST-BAL element.

☑ **NextAgeDate (Optional).** Eight character in the date format of CCYY-MM-DD.

☑ **Override (Optional).** One-character, "Y," "N," or blank. Contains flag which indicates if this customer allows override of computational transactions. Updates the $CST-OVERRIDE element.

☑ **PerformAging (Optional).** One character(Y/N). Indicates if aging should be performed for this customer.

☑ **ApplyToSubs (Optional).** One character. This field determines whether the master customer will allow cash application to its sub customers. If a "Y" is entered, the master customer can be used on the Cash Receipt or Cash Application screen to retrieve all open documents for all sub customers or allow cash application to multiple sub customers.

☑ **PrintBill (Optional).** One-character, "Y" or "N." Contains the flag that defaults a "Y" to the print flag on a new document. Updates the $CST-PRINT-BILL element.

☑ **PrintStatement (Optional).** One-character, "Y" or "N." Determines if the statement is to print for this customer. Updates the $CST-PRINT-STMT element.

☑ **RemitTo (Optional).** Two characters. Contains code indicating the address to remit receipts for this customer. Valid values must exist in the $AR-REMIT. Updates the $CST-REMIT-TO-CODE element.

☑ **CreditRep (Optional).** Eight characters. The code of the credit representative responsible for this customer. Valid values must exist in the $AR-REP table. Updates the $CST-REP-CREDIT element.

☑ **SalesRep (Optional).** Twenty-four characters. Contains sales representative code. Valid values must exist in the $AR-SALESMAN table. Updates the $CST-REP-SALES element.

☑ **SalesRepAlt (Optional).** Twenty-four characters. The alternate sales representative ID.

☑ **SendAdjMemo (Optional).** Two characters, first character is "Y" or "N," and second character is blank. Indicates that any change in customer's billing should be sent to the customer in writing. Updates the $CST-SEND-ADJ-MEMO element.

☑ **Share (Optional).** One-character, "Y," "N," or blank. Contains a code indicating if this customer can be shared by all users. If not, each user must define a separate version of the customer. Updates the $CST-SHARE-FLAG element.

☑ **ShipName (Optional).** Thirty-character customer shipping name.

☑ **ShipAddress1 (Optional).** Thirty-character customer shipping address.

☑ **ShipAddress2 (Optional).** Thirty-character customer shipping address.

☑ **ShipAddress3 (Optional).** Thirty-character customer shipping address.

☑ **ShipAddress4 (Optional).** Thirty-character customer shipping address.

☑ **ShipState (Optional).** Four-character customer shipping state.

☑ **ShipCountry (Optional).** Four-character shipping country.

☑ **ShipZip (Optional).** Ten-character shipping postal code.

☑ **ShipClass (Optional).** Two-character shipping class code.

☑ **ShipMethod (Optional).** Ten-character shipping method.

☑ **SortCode (Optional).** Two characters. Contains user-defined sort code. Updates the $CST-SORT-CODE element.

☑ **StatementCycle (Optional).** Two characters. Contains the statement cycle code used to group statements for printing. Valid values must exist in the $AR-CYCLE table. Updates the $CST-STMT-CYCLE element.

☑ **StatementType (Optional).** Two characters. Statement type code used for sorting purposes. Valid values are: BF = Balance Forward or OI = Open Items. Updates the $CST-STMT-TYPE element.

☑ **TermsRateKey (Optional).** Four characters. Contains the code indicating the normal terms code for this customer. Valid terms must exist in the $AR-RATE table. Updates the $CST-TERMS-RKEY element.

☑ **UpdDocHist (Optional).** One-character, "Y" or "N." Determines whether or not transaction history is to be retained by document. If "Y," can do an Account Summary (AD) inquiry. Updates the $CST-UPDT-DOCHIST element.

☑ **UpdDocHistMaster (Optional).** One-character, "Y" or "N." Determines whether or not transaction history is to be retained by the document for the master customer. Updates the $CST-UPDT-DOCHIST-MC element.

☑ **Internet (Optional).** One hundred twenty-eight characters, any printable types. Contains descriptive internet information for the customer. Updates the $CST-INTERNET element.

☑ **MiscTran (Optional).** Three-character transaction code. This element is used to specify the miscellaneous cash transaction code the customer will be using if the standard miscellaneous cash transaction code is not appropriate.

☑ **Send (Optional).** Ten-character send code which must exist in the $AR-SEND table.

☑ **ElectAddr (Optional).** One hundred twenty-eight character electronic address.

☑ **Individual (Optional).** One character. "Y" indicates the customer is an individual, and the Customer Name and Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. "N" or blank indicates the customer is not an individual and the Name field is required. "R" indicates that the individual flag was set, but no last name was given. Updates the $CST-INDIVIDUAL-FLAG element.

☑ **RebuildBillName(Optional).** One character. "Y" indicates the Bill Name will be rebuilt from the individual name fields if the Individual flag is set. "N" or blank indicates the name will not be rebuilt.

☑ **LastName (Optional).** Thirty characters. This represents the last name of an individual. It is required if the individual flag is set. If the Individual flag is "Y,"

then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-LAST element.

☑ **FirstName (Optional).** Thirty characters. This represents the first name of an individual. If the Individual flag is "Y," then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-FIRST element.

☑ **MiddleInitial (Optional).** Four characters. This represents the middle initial(s) of an individual. If the Individual flag is "Y," then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-MI element.

☑ **NameSuffix (Optional).** Four characters. This represents the name suffix of an individual, such as Jr. or III. If the Individual flag is "Y," then the Customer Name and the Bill Name will be built from the First Name, Middle Initial, Last Name, and Name Suffix. Updates the $CST-AA-NAME-SUFFIX element.

☑ **BusinessName (Optional).** Fifty characters. This is the business name. Updates the $CST-BUSINESS-NAME element.

☑ **FedTaxIDType (Optional).** One character. This element specifies what type of information is stored in the Federal Tax ID field. "F" indicates the Federal Tax ID. "S" indicates the Social Security Number. "O" or blank represents other data. Updates the $CST-AB-FEDID-TYPE element.

☑ **SSN (Optional).** Thirty-two characters. This contains the customer's social security number. Updates the $CST-AB-SSN element. This data will be encrypted in the database.

☑ **DL (Optional).** Thirty-two characters. This contains the customer's driver's license or state ID number. Updates the $CST-AB-DL element. This data will be encrypted in the database.

☑ **ContactPhone1Ext (Optional).** Six characters. This contains the extension associated with ContactPhone1. Updates the $CST-BCONT-PH-EXT-1 element.

☑ **ContactPhone2Type(Optional).** Ten characters. This contains the phone type associated with ContactPhone2. Update the $CST-BCONT-PH-TYPE-2 element. This value, if provided, may exist in the $AR-PHONE table. If it does not, an error will not be issued.

☑ **ContactPhone2Ext (Optional).** Six characters. This contains the extension associated with ContactPhone2. Updates the $CST-BCONT-PH-EXT-2 element.

☑ **Phone1 (Optional).** Twenty characters. This contains another telephone number of the customer. Updates the $CST-PHONE-1 element.

☑ **Phone1Type(Optional).** Ten characters. This contains the phone type associated with Phone1. Updates the $CST-PHONE-1-TYPE element. This value, if provided, may exist in the $AR-PHONE table. If it does not, an error will not be issued.

☑ **Phone1Ext (Optional).** Six characters. This contains the extension associated with Phone1. Updates the $CST-PHONE-1-EXT element.

☑ **Phone2 (Optional).** Twenty characters. This contains another telephone number of customer. Updates the $CST-PHONE-2 element.

☑ **Phone2Type(Optional).** Ten characters. This contains the phone type associated with Phone2. Updates the $CST-PHONE-2-TYPE element. This value, if provided, may exist in the $AR-PHONE table. If it does not, an error will not be issued.

☑ **Phone2Ext (Optional).** Six characters. This contains the extension associated with Phone2. Updates the $CST-PHONE-2-EXT element.

☑ **Phone3 (Optional).** Twenty characters. This contains another telephone number of the customer. Updates the $CST-PHONE-3 element.

☑ **Phone3Type(Optional).** Ten characters. This contains the phone type associated with Phone3. Updates the $CST-PHONE-3-TYPE element. This value, if provided, may exist in the $AR-PHONE table. If it does not, an error will not be issued.

☑ **Phone3Ext (Optional).** Six characters. This contains the extension associated with Phone3. Updates the $CST-PHONE-3-EXT element.

☑ **Email (Optional).** One hundred twenty-eight characters. This is the customer's email address.

- **Note:** The following fields are Repurposed fields. $AR-CUST-CONFIG and $AR-CST-TYPE configuration will control the edits for the fields – whether they are required, required to exist in a backing table, or are in range (for count repurposed fields).

☑ **RPIdentity1 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-1 element.

☑ **RPIdentity2 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-2 element.

☑ **RPIdentity3 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-3 element.

☑ **RPIdentity4 (Optional).** Sixty-four characters. This is a secure field that will be stored in the database encrypted. It is required if configuration requires it. Updates the $CST-RP-IDENTITY-4 element.

☑ **RPText1 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-1 element.

☑ **RPText2 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-2 element.

☑ **RPText3 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-3 element.

☑ **RPText4 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-4 element.

☑ **RPText5 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-5 element.

☑ **RPText6 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-6 element.

☑ **RPText7 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-7 element.

☑ **RPText8 (Optional).** Fifty characters. This text field is required if configuration requires it. Updates the $CST-RP-TEXT-8 element.

☑ **RPCnt1 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-1 element.

☑ **RPCnt2 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-2 element.

☑ **RPCnt3 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-3 element.

- ☑ **RPCnt4 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-4 element.

- ☑ **RPCnt5 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-5 element.

- ☑ **RPCnt6 (Optional).** Nine numeric characters. This count field is edited for a range if configuration requires it. Updates the $CST-RP-CNT-6 element.

- ☑ **RPDate1(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE1 element.

- ☑ **RPDate2(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE2 element.

- ☑ **RPDate3(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE3 element.

- ☑ **RPDate4(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE4 element.

- ☑ **RPDate5(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE5 element.

- ☑ **RPDate6(Optional).** Eight character date in the format CCYY-MM-DD. This data field is required if configuration requires it. Updates the $CST-RP-DATE6 element.

- ☑ **RPAmt21 (Optional).** Seventeen characters. This is a 2 decimal character amount. This must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-1 element.

- ☑ **RPAmt22 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-2 element.

- ☑ **RPAmt23 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-3 element.

☑ **RPAmt24 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-4 element.

☑ **RPAmt25 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-5 element.

☑ **RPAmt26 (Optional).** Seventeen characters. This is a 2 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT2-5 element.

☑ **RPAmt61 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-1 element.

☑ **RPAmt62 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-2 element.

☑ **RPAmt63 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-3 element.

☑ **RPAmt64 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-4 element.

☑ **RPAmt65 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-5 element.

☑ **RPAmt66 (Optional).** Nineteen characters. This is a 6 decimal character amount. It must contain leading sign for negatives. This data field is required if configuration requires it. Updates the $CST-RP-AMT6-6 element.

- **Note:** The following ACH fields will only be added if the FMS User on the request has ACH capability for FMSAR.

  ☑ **ACHBank (Optional).** Forty characters. This is the ACH Bank name. Updates the $CST-ACH-BANK-NAME.

  ☑ **ACHBankNo (Optional).** Thirty-two characters. This is the ACH bank account number. Updates $CST-ACH-BANK-NO. This field is encrypted in the database.

☑ **ACHRouteNo (Optional).** Thirty-two characters. This is the ACH bank routing number. Updates $CST-ACH-BANK-ROUTE. This field is encrypted in the database.

☑ **ACHAcctType (Optional).** This is the ACH account type. The value, if entered, should be "C" for checking or "S" for savings. This field is edited for the above values returning a "Y" if valid and an "N" if not. Updates the $CST-ACH-ACCT-TYPE element.

☑ **ACHValStatus (Optional).** This is the ACH validation status. Valid values are blank, 'P' – Pre-Noted, and 'I' – Inactive. Updates the $CST-ACH-VAL-STATUS element.

☑ **ACHAllowDays (Optional).** Three-numeric characters. This contains the ACH allowable days after invoice date to include for draft processing. This is now checked to make sure the values are numeric. Returns a "Y" if valid and an "N" if not. Updates the $CST-ACH-ALLOW-DAYS element.

☑ **ACHHoldFlag (Optional).** One character. This is the hold flag. Values are blank, "Y" for on hold for draft, and "N" for not on hold for draft. This field is edited for the above values returning a "Y" if valid and an "N" if not. Updates the $CST-ACH-HOLD-FLAG element.

☑ **ACHUserRef1 (Optional).** Ten characters. This is the ACH User Reference field 1. Updates the $CST-ACH-USER-REF1 element.

☑ **ACHUserRef2 (Optional).** Ten characters. This is the ACH User Reference field 2. Updates the $CST-ACH-USER-REF2 element.

☑ **ACHUserRef3 (Optional).** Ten characters. This is the ACH User Reference field 3. Updates the $CST-ACH-USER-REF3 element.

☑ **ACHUserRef4 (Optional).** Twenty characters. This is the ACH User Reference field 4. Updates the $CST-ACH-USER-REF4 element.

☑ **ACHUserRef5 (Optional).** Twenty characters. This is the ACH User Reference field 5. Updates the $CST-ACH-USER-REF5 element.

☑ **ACHUserRef6 (Optional).** Thirty characters. This is the ACH User Reference field 6. Updates the $CST-ACH-USER-REF6 element.

Modify Customer SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyCustomerResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <ModifyCustomerResult>int</ModifyCustomerResult>
      <custStatus>
        <Overall>string</Overall>
        <CustomerId>string</CustomerId>
        <User>string</User>
        <Master>string</Master>
        <GLAccount>string</GLAccount>
        <GLContraAccount>string</GLContraAccount>
        <ARAccount>string</ARAccount>
        <ARContraAccount>string</ARContraAccount>
        <CustomerType>string</CustomerType>
        <MinorityCode>string</MinorityCode>
        <Status>string</Status>
        <Active>string</Active>
        <ActiveMaster>string</ActiveMaster>
        <Actual>string</Actual>
        <AgeClass>string</AgeClass>
        <BaseDateCode>string</BaseDateCode>
        <CreditBalWriteoff>string</CreditBalWriteoff>
        <CreditLimit>string</CreditLimit>
        <CurrencyCode>string</CurrencyCode>
        <CurrDaysPer>string</CurrDaysPer>
        <CurrTotalPay>string</CurrTotalPay>
        <DateLastCreditReview>string</DateLastCreditReview>
        <DateNextCreditReview>string</DateNextCreditReview>
        <GraceDays>string</GraceDays>
        <MinimumBalWriteoff>string</MinimumBalWriteoff>
        <MinimumHistoryBal>string</MinimumHistoryBal>
        <NextAgingDate>string</NextAgingDate>
        <Override>string</Override>
        <PerformAging>string</PerformAging>
        <ApplyToSubs>string</ApplyToSubs>
        <PrintBill>string</PrintBill>
        <PrintStatement>string</PrintStatement>
        <RemitTo>string</RemitTo>
        <CreditRep>string</CreditRep>
        <SalesRep>string</SalesRep>
        <SalesRepAlternate>string</SalesRepAlternate>
        <Share>string</Share>
        <StatementCycle>string</StatementCycle>
        <TermsRateKey>string</TermsRateKey>
```

```xml
      <UpdateDocHist>string</UpdateDocHist>
      <UpdateDocHistMaster>string</UpdateDocHistMaster>
      <MiscTran>string</MiscTran>
      <PrimaryProd>string</PrimaryProd>
      <SIC>string</SIC>
      <Territory>string</Territory>
      <Vendor>string</Vendor>
      <Send>string</Send>
      <Individual>string</Individual>
      <RPIdentity1>string</RPIdentity1>
      <RPIdentity2>string</RPIdentity2>
      <RPIdentity3>string</RPIdentity3>
      <RPIdentity4>string</RPIdentity4>
      <RPText1>string</RPText1>
      <RPText2>string</RPText2>
      <RPText3>string</RPText3>
      <RPText4>string</RPText4>
      <RPText5>string</RPText5>
      <RPText6>string</RPText6>
      <RPText7>string</RPText7>
      <RPText8>string</RPText8>
      <RPCnt1>string</RPCnt1>
      <RPCnt2>string</RPCnt2>
      <RPCnt3>string</RPCnt3>
      <RPCnt4>string</RPCnt4>
      <RPCnt5>string</RPCnt5>
      <RPCnt6>string</RPCnt6>
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      <RPDate2>string</RPDate2>
      <RPDate3>string</RPDate3>
      <RPDate4>string</RPDate4>
      <RPDate5>string</RPDate5>
      <RPDate7>string</RPDate6>
      <RPAmt21>string</RPAmt21>
      <RPAmt22>string</RPAmt22>
      <RPAmt23>string</RPAmt23>
      <RPAmt24>string</RPAmt24>
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      <RPAmt62>string</RPAmt62>
      <RPAmt63>string</RPAmt63>
      <RPAmt64>string</RPAmt64>
      <RPAmt65>string</RPAmt65>
      <RPAmt66>string</RPAmt67>
      <ACHAcctType>string</ACHAcctType>
      <ACHValStatus>string</ACHValStatus>
      <ACHAllowDays>string</ACHAllowDays>
      <ACHHoldFlag>string</ACHHoldFlag>
    </custStatus>
  </ModifyCustomerResponse>
```

```
   </soap:Body>
 </soap:Envelope>
```

- **ModifyCustomerResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- The remaining portion details the status for modifying the Customer. Following is a detailed description of the fields and their values.

  - ☑ **Overall.** This is the overall status for modifying the Customer. If this value is "Y," the customer was successful updated. An "N" value means that the customer was not updated due to invalid input. See the following status fields for the details of the edit failure.

  - ☑ **CustomerId.** This status is for the Customer ID. A "Y" value means that the Customer ID is valid. Edit failure values are the following:

    - ➢ "N" Field was left blank and is required.

    - ➢ "2" Security disallows modifying the Customer.

    - ➢ "3" Customer is invalid for the current ledger.

    - ➢ "4" Could not find a unique entry for the Customer ID.

    - ➢ "5" Customer is not sharable.

    - ➢ "6" Customer does not exist.

  - ☑ **User.** This status is for the user field code. A "Y" value means that the user is valid. Edit failure values are the following:

    - ➢ "N" User does not exist.

    - ➢ "1" User security failure.

  - ☑ **Master.** This status is for the master customer code. A "Y" value means that the master is valid. The edit failure value is:

    - ➢ "N" Master does not exist.

  - ☑ **GLAccount.** GL Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **GLContraAccount.** GL Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **ARAccount.** AR Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **ARContraAccount.** AR Contra Account field status. A "Y" value means that a valid template string was entered. An "N" value means that an invalid character was entered in the template.

☑ **CustomerType.** Customer type field status. A "Y" value means that a valid value was entered ($AR-CST-TYPE table). An "N" value means an invalid value was entered.

☑ **MinorityCode.** Minority code field status. A "Y" value means that a valid value was entered ($AR-MINORITY table). An "N" value means an invalid value was entered.

☑ **Status.** Customer status field status. A "Y" value means that a valid value was entered ($AR-BILL-STATUS table). An "N" value means an invalid value was entered.

☑ **Active.** Active flag field status. A "Y" value means that a valid value was entered (A or I). An "N" value means an invalid value was entered.

☑ **ActiveMaster.** Customer active master update field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **Actual.** Actual flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **AgeClass.** Age class field status. A "Y" value means that a valid value was entered ($AR-AGE-CLASS table). An "N" value means an invalid value was entered.

☑ **BaseDateCode.** Customer base date code field status. A "Y" value means that a valid value was entered (D, C, F, or T). An "N" value means an invalid value was entered.

☑ **CreditBalWriteoff.** Credit balance write off field status. A "Y" value means that a valid amount was entered.

☑ **CreditLimit.** Credit limit field status. A "Y" value means that a valid amount was entered.

☑ **CurrencyCode.** Currency code field status. A "Y" value means that a valid value was entered ($AR-CURR table). An "N" value means an invalid value was entered.

☑ **CurrDaysPer.** Currency days field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **CurrTotalPay.** Total payment field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **DateLastCreditReview.** Last credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **DateNextCreditReview.** Next credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **GraceDays.** Grace days field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **MinimumBalWriteoff.** Minimum balance write off field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **MinimumHistoryBal.** Minimum history balance field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **NextAgingDate.** Next aging date field status. A "Y" value means that a valid date was entered. An "N" value means an invalid value was entered.

☑ **Override.** Override flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **PerformAging.** Perform aging flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **ApplyToSubs.** Apply to sub customer flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **PrintBill.** Print bill flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **PrintStatement.** Print statement flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **RemitTo.** Remit to field status. A "Y" value means that a valid value was entered ($AR-REMIT table). An "N" value means an invalid value was entered.

☑ **CreditRep.** Credit representative field status. A "Y" value means that a valid value was entered ($AR-REP table). An "N" value means an invalid value was entered.

☑ **SalesRep.** Sales representative field status. A "Y" value means that a valid value was entered ($AR-SALESMAN table). An "N" value means an invalid value was entered.

☑ **SalesRepAlternate.** An alternate sales representative field status. A "Y" value means that a valid value was entered ($AR-SALESMAN table). An "N" value means an invalid value was entered.

☑ **Share.** Share flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **StatementCycle.** Statement cycle field status. A "Y" value means that a valid value was entered ($AR-CYCLE table). An "N" value means an invalid value was entered.

☑ **TermsRateKey.** Terms rate key field status. A "Y" value means that a valid value was entered ($AR-RATE table). An "N" value means an invalid value was entered.

☑ **UpdateDocHist.** Update document history flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **UpdateDocHistMaster.** Update document history for master flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

☑ **MiscTran.** Miscellaneous transaction field status. A "Y" value means that a valid value was entered ($AR-TRANS table). An "N" value means an invalid value was entered.

☑ **PrimaryProd.** Primary product field status. A "Y" value means that a valid value was entered ($AR-PRIMPROD table). An "N" value means an invalid value was entered.

- ☑ **SIC.** SIC field status. A "Y" value means that a valid value was entered ($AR-SIC table). An "N" value means an invalid value was entered.

- ☑ **Territory.** Territory field status. A "Y" value means that a valid value was entered ($AR-TERR table). An "N" value means an invalid value was entered.

- ☑ **Vendor.** Vendor index status. A "Y" value means a valid numeric index was entered. An "N" value means that at least one non-numeric character was entered.

- ☑ **Send.** Send field status. A "Y" value means that a valid value was entered ($AR-SEND table). An "N" value means an invalid value was entered.

- ☑ **Individual.** Share flag field status. A "Y" value means that a valid value was entered (Y, N, or blank). An "N" value means an invalid value was entered. An "R" value means last name was not given.

- ☑ **RPIdentity1 – RPIdentity4.** Repurposed Identity 1-4 field status. A "Y" value means a value was entered when required. An "N" value means the required value was not entered.

- ☑ **RPText1 – RPText8.** Repurposed Text 1-8 field status.

  - ➢ Y – No edit error

  - ➢ N – Required but not entered

  - ➢ 1 – Required to exist in backing table

- ☑ **RPDate1 – RPDate6.** Repurposed date 1-6 field status.

  - ➢ Y – Valid date

  - ➢ N – Invalid date

  - ➢ 1 – Date is required

- ☑ **RPCnt1 – RPCnt6.** Repurposed count 1-6 field status.

  - ➢ Y – Valid value

  - ➢ N – Invalid count

  - ➢ 1 – Count not in range

- ☑ **RPAmt21 – RPAmt26.** Repurposed amount (2-decimal) 1-6 field status.

- ➢ Y – Valid value

- ➢ N – Invalid amount

- ➢ 1 – Amount is required

☑ **RPAmt61 – RPAmt66.** Repurposed amount (6-decimal) 1-6 field status.

- ➢ Y – Valid value

- ➢ N – Invalid count

- ➢ 1 – Count not in range

☑ **ACHAcctType.** ACH Account Type field status. A "Y" value means the entered value is valid. An "N" means the value is not valid.

☑ **ACHValStatus.** ACH Valid Status field status. A "Y" value means the entered value is valid. An "N" means the value is not valid.

☑ **ACHAllowDays.** ACH Allow Days field status. A "Y" value means the entered value is valid. An "N" means the value is not numeric.

☑ **ACHHoldFlag.** ACH Hold Flag field status. A "Y" means the entered value is valid. An "N" means the value is not valid.

Accounts Receivable Batch Creation (CreateARBatch Web Method)

This web service will create and optionally post an accounts receivable batch. This web method will perform all functionality of ARCV (Accounts Receivable conversion). The SOAP request message is structured to have the batch header information following by an array of documents. Within each document is an array of line items. The documents and line items can have extended descriptions. Following is a detailed description of the request and response messages for the Web Service.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the CreateARBatch web method.

```
          .
          .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
string Outputdevice = "DISK";
int Result;
ARBatchStatus statusRec;
ARBatch inputRec = new ARBatch();

//Fill the inputRec object with information on the Accounts
Receivable batch to create.
.
.
Result = fms.CreateARBatch(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, Outputdevice, OSUser, OSPassword, inputRec,
out statusRec);
```

AR Batch Creation SOAP Request

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateARBatch xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OutputDevice>string</OutputDevice>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <BatchInput>
        <BatchType>string</BatchType>
        <BatchNo>int</BatchNo>
        <Period>string</Period>
        <Year>string</Year>
        <Net>decimal</Net>
        <AdjNet>decimal</AdjNet>
        <DHCount>int</DHCount>
        <TXCount>int</TXCount>
        <Desc1>string</Desc1>
        <Desc2>string</Desc2>
        <User>string</User>
        <Gencon>string</Gencon>
        <Bank>string</Bank>
        <DepositNumber>string</DepositNumber>
        <UnconditionalUpdate>boolean</UnconditionalUpdate>
        <SubmitType>string</SubmitType>
        <NewDocuments>
          <ARBatchNewDocument>
            <RefType>string</RefType>
            <RefDoc>string</RefDoc>
            <Ref2Type>string</Ref2Type>
            <Ref2Doc>string</Ref2Doc>
            <PrintFlag>boolean</PrintFlag>
            <DocType>string</DocType>
            <Document>string</Document>
            <CustId>string</CustId>
            <User>string</User>
            <Org>string</Org>
            <DocDate>string</DocDate>
            <Terms>string</Terms>
            <DueDate>string</DueDate>
            <BillStat>string</BillStat>
            <Salesman>string</Salesman>
            <Description>string</Description>
            <Currency>string</Currency>
            <Amount>decimal</Amount>
            <SendDocID>string</SendDocID>
```

```xml
<CreateCustomer>string</CreateCustomer>
<UpdateCustomer>string</UpdateCustomer>
<BillName>string</BillName>
<BillNameClear>boolean</BillNameClear>
<BillAddress1>string</BillAddress1>
<BillAddress1Clear>boolean</BillAddress1Clear>
<BillAddress2>string</BillAddress2>
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<BillAddress3>string</BillAddress3>
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<BillZipClear>boolean</BillZipClear>
<BillCountry>string</BillCountry>
<BillCountryClear>boolean</BillCountryClear>
<Master>string</Master>
<Name>string</Name>
<NameClear>boolean</NameClear>
<ShortName>string</ShortName>
<ShortNameClear>boolean</ShortNameClear>
<CustomerType>string</CustomerType>
<CustomerTypeClear>boolean</CustomerTypeClear>
<MinorityCode>string</MinorityCode>
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<FederalID>string</FederalID>
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<SIC>string</SIC>
<SICClear>boolean</SICClear>
<Status>string</Status>
<StatusClear>boolean</StatusClear>
<Territory>string</Territory>
<TerritoryClear>boolean</TerritoryClear>
<VendorID>string</VendorID>
<VendorIDClear>boolean</VendorIDClear>
<Address1>string</Address1>
<Address1Clear>boolean</Address1Clear>
<Address2>string</Address2>
<Address2Clear>boolean</Address2Clear>
<Address3>string</Address3>
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<City>string</City>
<CityClear>boolean</CityClear>
<State>string</State>
<StateClear>boolean</StateClear>
<Zip>string</Zip>
<ZipClear>boolean</ZipClear>
<Country>string</Country>
```

```
          <CountryClear>boolean</CountryClear>
          <ActiveMaster>string</ActiveMaster>
          <ActiveMasterClear>boolean</ActiveMasterClear>
          <AgeClass>string</AgeClass>
          <AgeClassClear>boolean</AgeClassClear>
          <BaseDateCode>string</BaseDateCode>
          <ContactName>string</ContactName>
          <ContactNameClear>boolean</ContactNameClear>
          <ContactPhone1>string</ContactPhone1>
          <ContactPhone1Clear>boolean</ContactPhone1Clear>
          <ContactPhone2>string</ContactPhone2>
          <ContactPhone2Clear>boolean</ContactPhone2Clear>
          <ContactTelex>string</ContactTelex>
          <ContactTelexClear>boolean</ContactTelexClear>
          <BillFormat>string</BillFormat>
          <BillFormatClear>boolean</BillFormatClear>
          <BillCycle>string</BillCycle>
          <BillCycleClear>boolean</BillCycleClear>
          <CreditLimit>decimal</CreditLimit>
          <CreditLimitClear>boolean</CreditLimitClear>
          <CreditRating>string</CreditRating>
          <CreditRatingClear>boolean</CreditRatingClear>
          <CurrencyCode>string</CurrencyCode>
          <CurrencyCodeClear>boolean</CurrencyCodeClear>
          <LastCreditReviewDate>string</LastCreditReviewDate>

<LastCreditReviewDateClear>boolean</LastCreditReviewDateClear>
          <NextCreditReviewDate>string</NextCreditReviewDate>

<NextCreditReviewDateClear>boolean</NextCreditReviewDateClear>
          <GraceDays>int</GraceDays>
          <GraceDaysClear>boolean</GraceDaysClear>
          <Override>string</Override>
          <OverrideClear>boolean</OverrideClear>
          <PrintBill>string</PrintBill>
          <PrintBillClear>boolean</PrintBillClear>
          <PrintStatement>string</PrintStatement>
          <PrintStatementClear>boolean</PrintStatementClear>
          <RemitTo>string</RemitTo>
          <RemitToClear>boolean</RemitToClear>
          <CreditRep>string</CreditRep>
          <CreditRepClear>boolean</CreditRepClear>
          <SalesRep>string</SalesRep>
          <SalesRepClear>boolean</SalesRepClear>
          <Share>string</Share>
          <ShareClear>boolean</ShareClear>
          <StatementCycle>string</StatementCycle>
          <StatementCycleClear>boolean</StatementCycleClear>
          <StatementType>string</StatementType>
          <StatementTypeClear>boolean</StatementTypeClear>
          <TermsRateKey>string</TermsRateKey>
          <TermsRateKeyClear>boolean</TermsRateKeyClear>
          <Internet>string</Internet>
          <InternetClear>boolean</InternetClear>
          <MiscTran>string</MiscTran>
          <MiscTranClear>boolean</MiscTranClear>
```

```
<Send>string</Send>
<SendClear>boolean</SendClear>
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</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in the *AR Batch Creation SOAP Response* section.

- Following is a detailed description of the fields and their values.

    ☑ **BatchType (Required).** The two-character, uppercase batch type. Must be a
    valid batch type for creating account receivable batches and exist in the $BATCH-
    TYPE-OBJ table for this ledger.

    ☑ **BatchNo (Required/Optional).** Six characters, right justified, zero filled. If the
    batch type requires auto numbering, this should be blank or zero. If the batch type
    does not allow auto-numbering, this field is required. If the batch type requires a
    manual number, this is the batch number for the batch.

    ☑ **Period (Required).** Two characters, right justified, zero filled. Period the batch
    is to be created for. This can be blank and defaulted for the user. Fiscal
    accounting period associated with this batch.

    ☑ **Year (Required).** Two characters, right justified, zero filled. The fiscal
    accounting year for this batch. This can be blank and defaulted for the user.

    ☑ **Net (Required/Optional).** Seventeen-characters, right justified, space filled on
    left. If the amount is negative, use a trailing minus sign in the last position of this
    field. Required if financial net control is used on batch type. If the batch type is
    configured for financial net amount control, this is the financial net amount total
    for the batch.

    ☑ **AdjNet (Required/Optional).** Seventeen characters, right justified, space filled
    on left. If the amount is negative, use a trailing minus sign in the last position of
    this field. If the batch type is configured for adjustment control, this is the control
    total.

    ☑ **DHCount (Required/Optional).** Six characters, numeric, right justified, zero
    filled. Represents the number of document header records in the batch. If the
    batch type is configured for journal control, this is the journal control total for the

batch. The number of documents in the batch must equal this control total before the batch is valid to post.

☑ **TXCount (Required/Optional).** Six characters, numeric, right justified, zero filled. Represents the number of transaction records in the batch. If the batch type is configured for transaction control, this is the transaction control total for the batch. The number of line items in the batch must equal this control total before the batch is valid to post.

☑ **Desc1 (Optional).** This is one of two 50-character descriptions which will be displayed on the batch posting report.

☑ **Desc2 (Optional).** This is one of two 50-character descriptions that will be displayed on the batch posting report.

☑ **User (Required).** Three characters. The user field code for the batch.

☑ **GenCon (Optional).** Sixteen characters. Identifies the Generalized Conversion ID to be used (if any). The GenCon is to be used for the account number processing. If a value is entered, it will override the GenCon on the batch type.

☑ **Bank (Required/Optional).** Four characters. The bank to be used on newly created documents if the customer does not have a bank. Required for receipt batches.

☑ **DepositNumber (Optional).** An eight-character deposit number.

☑ **UnconditionalUpdate (Optional).** If "true," create or post the batch (according to the configuration of $BT-POST-EXTIF batch type configuration) even if there are edit errors. If "false," delete the batch if there are any edit failures creating the batch. Note that if the batch contains no transactions, it will be deleted no matter what the value of this flag.

☑ **SubmitType (Optional).** If the batch is to be posted (i.e., the $BT-POST-EXTIF batch type flag is "Y"), this indicates how the batch is to be posted in FMS. If "S," the batch is to be posted synchronously. In this case, if the Web Service is running synchronously, control will not be returned to the Web Service Consumer until the batch is posted. If "B," the batch will be posted background and control will be returned to the Web Service Consumer without waiting for posting to complete.

- **New Documents**. There will be one instance of the array for each document in the batch. Following is a detailed description of the fields and their values.

  ☑ **RefType (Optional).** Two characters. This is the reference document type, if the reference document type is used.

☑ **RefDoc (Optional).** Twenty-two characters. This is the reference document control number, if the reference document is used.

☑ **Ref2Type (Optional).** Two characters. This is the second reference document type, if it is used.

☑ **Ref2Doc (Optional).** Twenty-two characters. This is the second reference document control number, if the reference document is used.

☑ **PrintFlag (Optional).** One-character. Valid values are "Y," "N," or blank.

☑ **DocType (Optional).** The two-character document type must exist on the document type data set if the batch format is "IN" or "IT."

☑ **Document (Optional).** Twenty-two characters that represent the document number.

☑ **CustId (Required).** Twenty-four characters, uppercase, alphanumeric (0-9, A-Z). Identifies the customer for this document (uniquely). Can contain customer index, customer ID, or short name. If CreateCustomer is 'Y,' CustId is blank, and the site is set to auto-assign, the Customer ID will be automatically assigned. This updates the $CST-AB-CUST-ID element.

☑ **User (Required).** The three-character AR User which must be the same user as on the batch header.

☑ **Org (Optional).** Twenty-four character organizational unit.

☑ **DocDate (Optional).** Eight characters. The document date in a CCYYMMDD format.

☑ **Terms (Optional).** Four character document terms code. Document terms code must exist in the $AR-RATE table.

☑ **DueDate (Optional).** Eight characters. The payment date in the CCYYMMDD format.

☑ **BillStat (Optional).** Two characters. The billing status must exist in the $AR-BILL-STATUS table, if used.

☑ **Salesman (Optional).** Twenty-four characters. Must exist in the $AR-SALESMAN table, if used.

☑ **Description (Optional).** Thirty-character document description.

☑ **Currency (Optional).** Four characters. Currency to be used with this document.

- ☑ **Amount (Required/Optional).** The control total for the document.

- ☑ **SendDocID (Optional).** One-character flag indicating the document index and the document type/number should be returned in the status. "Y" indicates the information should be returned in the status. If this field is omitted or set to "N," the new document ID and document index will not be included in the response file.

- ☑ **CreateCustomer (Optional).** One-character flag indicating the customer should be created if it does not already exist. "Y" indicates the customer should be created. If a customer cannot be identified by the customer in the Customer ID field and this flag is set, a new customer will be created. The customer control will be returned in the NewCustIndex status field. The new customer will be created for the same user as the batch. Other information for the new customer will be defaulted from the copy customer (custctrl 000000). If this field is omitted or set to an "N," the customer control will not be returned in the status.

- ☑ **UpdateCustomer (Optional).** One-character flag indicating the customer should be updated if it already exists. "Y" indicates the customer should be updated. If this field is omitted or set to "N," the customer on the document will not be updated.

- **NOTE:** The CreateCustomer and UpdateCustomer fields have corresponding Clearxxx fields. These fields are not required . The boolean value is used to clear (i.e., set to spaces) the corresponding field. If the Clearxxx field is set to "true," the corresponding field is set to spaces. If the Clearxxx field is set to "false" and a value is entered in the corresponding field, that value will replace the current value on an existing customer or that value is added to a new customer. If the Clearxxx field is "false" and the corresponding field is left blank, then the current value for the field is retained on an existing customer or is left blank for a new customer.

- While the following fields are used to create or update a customer, the BillName, BillAddress*n,* ContactName, and ContactPhone1 fields can also be used if CreateCustomer and/or UpdateCustomer are not set to "Y." In this case, when a document is created, the BillName, BillAddress*n* fields, ContactName, and/or ContactPhone1, are placed on the document. If the clear flag is set to true for one of these fields, the field will be blanked out on the document.

- ☑ **BillName (Optional).** Seventy-character bill name. If left blank, the customer name will be the billing name.

- ☑ **BillAddress1 (Optional).** Thirty-character billing address 1. If all of the billing address (+ city, state, zip, country) are left blank, the customer address will be copied to the billing fields.

☑ **BillAddress2 (Optional).** Thirty-character billing address 2. If blank, defaults to Customer Address 2.

☑ **BillAddress3 (Optional).** Thirty-character billing address 3. If blank, defaults to Customer Address 3.

☑ **BillAddress4 (Optional).** Thirty-character billing address 4. If blank, defaults to Customer Address 4.

☑ **BillCity (Optional).** Thirty-character billing city. If blank, defaults to Customer City.

☑ **BillState (Optional).** Four-character billing state. If blank, defaults to Customer State/Province.

☑ **BillZip (Optional).** Ten-character billing zip code/postal code. If blank, defaults to Customer postal code.

☑ **BillCountry (Optional).** Four-character billing country code. If blank, defaults to Customer country abbreviation code.

☑ **Master (Optional).** Twenty-four-character Master ID. For a new customer, if left blank, the Customer ID will be used.

☑ **Name (Optional).** Thirty-character customer name. If left blank for a new customer, the Customer ID will be used.

☑ **ShortName (Optional).** Ten-character short name. If left blank for a new customer, the first ten characters of the customer name will be used.

☑ **CustomerType (Optional).** Two-character customer type to which the customer belongs. If entered, must exist in the $AR-CST-TYPE table.

☑ **MinorityCode (Optional).** Two-character minority code. Value must exist in the $AR-MINORITY table.

☑ **FederalId (Optional).** Thirty-two character federal identification number.

☑ **PrimaryProd (Optional).** Ten-character primary product code. Value must exist in the $AR-PRIM-PROD table.

☑ **SIC (Optional).** Ten-character standard industrial class (SIC) for the customer. If the APAR-ALLOW-ALL-SIC constant is set to "0" or the constant does not exist, the SIC code must exist in the $AR-SIC table. If the APAR-ALLOW-ALL-SIC constant is set to 1, then the field is not edited.

☑ **Status (Optional).** Two-character default payment status code. Initial value should be "OK." Valid values must exist in the $AR-BILL-STATUS table.

☑ **Territory (Optional).** Eight-character sales territory code.

☑ **VendorID (Optional).** Twenty-four character, alphanumeric, uppercase vendor ID.

☑ **Address1 (Optional).** Thirty-character address field. Contains the first line of the customer's address.

☑ **Address2 (Optional).** Thirty-character address field. Contains the second line of the customer's address.

☑ **Address3 (Optional).** Thirty-character address field. Contains the third line of the customer's address.

☑ **Address4 (Optional).** Thirty-character address field. Contains the fourth line of the customer's address.

☑ **City (Optional).** Thirty-character customer city.

☑ **State (Optional).** Four-character customer state.

☑ **Zip (Optional).** Ten-character customer postal (zip) code.

☑ **Country (Optional).** Three-character customer country abbreviation.

☑ **ActiveMaster (Optional).** One character, "Y" or "N". Determines whether or not the master customer will be updated for things like high balance when the customer is updated.

☑ **AgeClass (Optional).** Four-character age class. Contains code indicating the age or condition of the customer's oldest bill or bill with the most unfavorable condition. Valid values must exist in the $AR-AGE table.

☑ **BaseDateCode (Optional).** One-character, uppercase, alphabetic base-date code. Valid values are: D=Document Date, C=Current Date, F= First of Next Month, or T=First of Current Month.

☑ **ContactName (Optional).** Thirty character contact name.

☑ **ContactPhone1 (Optional).** Twenty-character contact phone.

☑ **ContactPhone2 (Optional).** Twenty-character contact phone.

☑ **ContactTelex (Optional).** Twenty-character contact telex.

☑ **BillFormat (Optional).** Four-character bill format.

☑ **BillCycle (Optional).** Two-character billing cycle. Contains statement cycle code used to group statements for printing. Valid values must exist in the $AR-CYCLE table.

☑ **CreditLimit (Optional).** Seventeen characters, explicit point, trailing sign, leading zeros. Contains the Credit limit amount set for a user.

☑ **CreditRating (Optional).** Six-character credit rating.

☑ **CurrencyCode (Optional).** Four-character currency code.

☑ **LastCreditReviewDate (Optional).** Eight characters. Must be in the format CCYY-MM-DD. Contains the last credit review date of this customer.

☑ **NextCreditReviewDate (Optional).** Eight characters. Must be in the format CCYY-MM-DD. Contains the next credit review date of this customer.

☑ **GraceDays (Optional).** Two character numeric grace days used for this customer in calculating the due date.

☑ **Override (Optional).** One character, "Y" or "N." This flag indicates whether or not the customer allows override of computational transactions.

☑ **PrintBill (Optional).** One character, "Y" or "N."

☑ **PrintStatement (Optional).** One character, "Y" or "N" print statement flag.

☑ **RemitTo (Optional).** Two-character remit to code.

☑ **CreditRep (Optional).** Eight character credit representative code.

☑ **SalesRep (Optional).** Twenty-four character sales representative code.

☑ **Share (Optional).** One character, "Y" or "N" share flag.

☑ **StatementCycle (Optional).** Two-character statement cycle.

☑ **StatementType (Optional).** Two-character statement type.

☑ **TermsRateKey (Optional).** Four-character terms code.

☑ **Internet (Optional).** One hundred twenty-eight character internet address.

- ☑ **MiscTran (Optional).** Three-character transaction code.

- ☑ **Send (Optional).** Ten-character send code.

- ☑ **ElectronicAddr (Optional).** One hundred twenty-eight character electronic address.

- ☑ **Individual (Optional).** One-character, "Y" or "N."

- ☑ **RebuildBillName (Optional).** One-character, "Y" or "N."

- ☑ **LastName (Optional).** Thirty-character last name of an individual.

- ☑ **FirstName (Optional).** Thirty-character first name of an individual.

- ☑ **MiddleInitial (Optional).** Four-character middle initial(s) of an individual.

- ☑ **NameSuffix (Optional).** Four character-name suffix of an individual, such as Jr. or III.

- ☑ **BusinessName (Optional).** Fifty-character business name.

- ☑ **FedTaxIDType (Optional).** One-character element that specifies what type of information is stored in the Federal Tax ID field. "F" indicates Federal Tax ID, "S" indicates Social Security Number, and "O" or blank represents other data.

- ☑ **SSN (Optional).** Thirty-two characters. Contains customer's social security number.

- ☑ **DL (Optional).** Thirty-two characters. Contains customer's driver's license or state ID number. This data will be encrypted in the database.

- ☑ **ContactPhone1Ext (Optional).** Six-character phone extension associated with ContactPhone1.

- ☑ **ContactPhone2Type(Optional).** Ten-character phone type associated with ContactPhone2.

- ☑ **ContactPhone2Ext (Optional).** Six-character extension associated with ContactPhone2.

- ☑ **Phone1 (Optional).** Twenty characters. Contains another telephone number for the customer.

- ☑ **Phone1Type(Optional).** Ten-character phone type associated with Phone1.

- ☑ **Phone1Ext (Optional).** Six-character extension associated with Phone1.

- ☑ **Phone2 (Optional).** Twenty characters. Contains another telephone number for the customer.

- ☑ **Phone2Type(Optional).** Ten-character phone type associated with Phone2.

- ☑ **Phone2Ext (Optional).** Six characters phone extension associated with Phone2.

- ☑ **Phone3 (Optional).** Twenty character. Additional telephone number for the customer.

- ☑ **Phone3Type(Optional).** Ten characters. Contains the phone type associated with Phone3.

- ☑ **Phone3Ext (Optional).** Six-character extension associated with Phone3.

- ☑ **Email (Optional).** One hundred twenty-eight characters. This is the customer's email address.

- ☑ **Dept (Optional).** Four characters. Contains the department to be placed on the document.

- ☑ **HeaderMessages (Optional).** Header message for the document. This is an array of the ARExtendedDesc element described below.

- ☑ **Trailer Messages (Optional).** Trailer message for the document. This is an array of the ARExtendedDesc element described below.

- **Existing Documents.** There will be one instance of the array for each document in the batch. Following is a detailed description of the fields and their values.

  - ☑ **Index (Optional).** Six characters, right justified, zero filled. Contains the document index. For unapplied cash receipts, this value should be "999999."

  - ☑ **RefType (Optional).** Two characters. Represents the reference document type.

  - ☑ **RefDoc (Optional).** Twenty-two characters. Represents the reference document number.

  - ☑ **DocType (Optional).** Two-character document type. Must exist on the document type table if the batch format is "IN" or "IT."

  - ☑ **Document (Optional).** Twenty-two characters that represent the document number.

- ☑ **CustomerId (Optional).** Twenty-four, uppercase, alphanumeric characters (0-9, A-Z). Identifies the customer for this document (uniquely). Can contain customer index, customer ID, or short name. Identifies the customer for this document.

- ☑ **User (Required/Optional).** Three characters. If this ledger closes with more than one user, then this should be the SAME user as the batch header user UNLESS this batch type is not under period/year control. If there is a customer ID that is set up on more than one user, this is required.

- ☑ **Organization (Required/Optional).** Twenty-four character organizational unit.

- ☑ **Amount (Required/Optional).** Seventeen characters, right justified, space filled on left. If the amount is negative, use a trailing minus sign in the last position of this field. This is the control total for the document. Required sometimes.

- ☑ **UpdateCustomer (Optional).** One-character flag indicating the customer should be updated if it already exists. "Y" indicates the customer should be updated. If this field is omitted or set to "N," the customer on the document will not be updated.

- Note that each field in this section, which is not required if UpdateCustomer is set to "Y," has a corresponding Clearxxx field. This boolean value is used to clear (i.e., set to spaces) the corresponding field. If the Clearxxx field is "true," the corresponding field is set to spaces. If the Clearxxx field is "false" and a value is entered in the corresponding field, this will replace the existing value for the customer. If the Clearxxx field is "false" and the corresponding field is left blank, the existing value for the field is retained for the existing customer.

- While the following fields are used to update a customer, the BillName, BillAddress*n,* ContactName, and ContactPhone1 fields can also be used if UpdateCustomer is not set to "Y." In this case, when a document is created the BillName, BillAddress*n* fields, Customer Contact, and/or Contact Phone, are placed on the document. If the clear flag is set to true for one of these fields, the field will be blanked out on the document.

  - ☑ **BillName (Optional).** Seventy-character bill name. If left blank, the customer name will be the customer billing name.

  - ☑ **BillAddress1 (Optional).** Thirty-character billing address 1. If all of the billing address (+ city, state, zip, country) are left blank, the customer address will be copied to the billing fields.

  - ☑ **BillAddress2 (Optional).** Thirty-character billing address 2.

  - ☑ **BillAddress3 (Optional).** Thirty-character billing address 3.

☑ **BillAddress4 (Optional).** Thirty-character billing address 4.

☑ **BillCity (Optional).** Thirty-character billing city.

☑ **BillState (Optional).** Four-character billing state.

☑ **BillZip (Optional).** Ten-character billing zip code/postal code.

☑ **BillCountry (Optional).** Four-character billing country code.

☑ **Master (Optional).** Twenty-four-character master ID. For a new customer, if left blank, the Customer ID will be used.

☑ **Name (Required/Optional).** Seventy-character customer name. Required if the individual flag is blank or "N." Must be blank if the individual flag is "Y."

☑ **ShortName (Optional).** Ten-character short name. If left blank for a new customer, the first 10 characters of the customer name will be used.

☑ **CustomerType (Optional).** Two-character customer type.

☑ **MinorityCode (Optional).** Two-character minority code.

☑ **FederalId (Optional).** Thirty-two character federal ID.

☑ **PrimaryProd (Optional).** Ten-character primary product code.

☑ **SIC (Optional).** Ten-character SIC code.

☑ **Status (Optional).** Two-character status code.

☑ **Territory (Optional).** Eight-character sales territory code.

☑ **VendorID (Optional).** Twenty-four-character, alphanumeric, uppercase vendor ID.

☑ **Address1 (Optional).** Thirty-character address field.

☑ **Address2 (Optional).** Thirty-character address field.

☑ **Address3.** Thirty-character address field.

☑ **Address4 (Optional).** Thirty-character address field.

☑ **City (Optional).** Thirty-character customer city.

- ☑ **State (Optional).** Four-character customer state.

- ☑ **Zip (Optional).** Ten-character customer zip code.

- ☑ **Country (Optional).** Three-character customer country abbreviation.

- ☑ **ActiveMaster (Optional).** One-character master flag update.

- ☑ **AgeClass (Optional).** Four-character age class.

- ☑ **BaseDateCode (Optional).** One-character, uppercase, alphabetic base-date code.

- ☑ **ContactName (Optional).** Thirty character contact name.

- ☑ **ContactPhone1 (Optional).** Twenty-character contact phone number.

- ☑ **ContactPhone2 (Optional).** Twenty-character contact phone number.

- ☑ **ContactTelex (Optional).** Twenty-character contact fax number.

- ☑ **BillFormat (Optional).** Four-character bill format.

- ☑ **BillCycle (Optional).** Two-character billing cycle code.

- ☑ **CreditLimit (Optional).** Seventeen characters, explicit point, trailing sign, leading zeros. Credit limit amount.

- ☑ **CreditRating (Optional).** Six-character credit rating.

- ☑ **CurrencyCode (Optional).** Four-character currency code.

- ☑ **LastCreditReviewDate (Optional).** Eight-character last credit review date.

- ☑ **NextCreditReviewDate (Optional).** Eight characters. Must be in the format CCYY-MM-DD. Contains the next credit review date.

- ☑ **GraceDays (Optional).** Two-character numeric grace days.

- ☑ **Override (Optional).** One character, "Y" or "N." This flag indicates whether or not the customer allows override of computational transactions.

- ☑ **PrintBill (Optional).** One character, "Y" or "N" print bill flag.

- ☑ **PrintStatement (Optional).** One character, "Y" or "N," print statement flag.

- ☑ **RemitTo (Optional).** Two-character remit to code.

☑ **CreditRep (Optional).** Eight-character credit representative code.

☑ **SalesRep (Optional).** Twenty-four character sales representative code.

☑ **Share (Optional).** One character, "Y" or "N," share flag.

☑ **StatementCycle (Optional).** Two-character statement cycle code.

☑ **StatementType (Optional).** Two-character statement type code.

☑ **TermsRateKey (Optional).** Four-character terms code.

☑ **Internet (Optional).** One hundred twenty-eight character internet address.

☑ **MiscTran (Optional).** Three-character miscellaneous cash transaction code.

☑ **Send (Optional).** Ten-character send code.

☑ **ElectronicAddr (Optional).** One hundred twenty-eight character electronic address.

☑ **Individual (Optional).** One-character, "Y" or "N."

☑ **RebuildBillName (Optional).** One-character, "Y" or "N."

☑ **LastName (Optional).** Thirty-character last name of an individual.

☑ **FirstName (Optional).** Thirty-character first name of an individual.

☑ **MiddleInitial (Optional).** Four-character middle initial(s) of an individual.

☑ **NameSuffix (Optional).** Four characters. This represents the name suffix of an individual, such as Jr. or III.

☑ **BusinessName (Optional).** Fifty-character business name.

☑ **FedTaxIDType (Optional).** One-character. This element specifies what type of information is stored in the Federal Tax ID field. "F" indicates Federal Tax ID, "S" indicates Social Security Number, and "O" or blank represents other data.

☑ **SSN (Optional).** Thirty-two characters. Contains customer's social security number.

☑ **DL (Optional).** Thirty-two character driver's license or state ID number.

☑ **ContactPhone1Ext (Optional).** Six characters containing the extension associated with ContactPhone1.

☑ **ContactPhone2Type(Optional).** Ten characters containing the phone type associated with ContactPhone2.

☑ **ContactPhone2Ext (Optional).** Six characters containing the extension associated with ContactPhone2.

☑ **Phone1 (Optional).** Twenty characters containing another telephone number of customer.

☑ **Phone1Type(Optional).** Ten characters. Contains the phone type associated with Phone1.

☑ **Phone1Ext (Optional).** Six-character extension associated with Phone1.

☑ **Phone2 (Optional).** Twenty characters. Contains another telephone number for the customer.

☑ **Phone2Type(Optional).** Ten characters. Contains the phone type associated with Phone2.

☑ **Phone2Ext (Optional).** Six characters. Contains the extension associated with Phone2.

☑ **Phone3 (Optional).** Twenty characters. Contains an additional telephone number for the customer. Updates the $CST-PHONE-3 element.

☑ **Phone3Type(Optional).** Ten characters. Contains the phone type associated with Phone3.

☑ **Phone3Ext (Optional).** Six characters. Contains the extension associated with Phone3.

☑ **Email (Optional).** One hundred twenty-eight characters. This is the customer's email address.

☑ **Dept (Optional).** Four characters. Contains the department to be placed on the document.

- **BatchTrans.** A transaction is an array within new and existing documents. There will be one instance of the array for each transaction in the document. Following is a detailed description of the fields and their values.

☑ **TranCode (Required).** The three-character transaction code for the line item.

☑ **Item (Optional).** Twenty-four characters. Contains a valid Accounts Receivable item. This is only valid for "IT" type batches.

☑ **RefDate (Optional).** Eight characters. The reference date in the CCYYMMDD format.

☑ **Amount (Optional).** Seventeen characters, right justified, space filled on left. If the amount is negative, use a trailing minus sign in the last position of this field. Represents the transaction amount.

☑ **Quantity (Optional).** Seventeen characters, right justified, space filled on left. If the amount is negative, use a trailing minus sign in the last position of this field. The quantity of the item. Only used with items.

☑ **Price (Optional).** Seventeen characters, right justified, space filled. Represents item price. A price is required when using items. The price can be entered in the input file or it can be retrieved from the item record.

☑ **Account (Optional).** Sixty characters. Represents the "entered" account (which can include reference fields if a space is left AFTER the account). This field DOES NOT contain non-display or pseudo coded fields and only needs to contain enough information to provide input to merge with transaction, customer, item, and user templates. If desired, can contain the full "display" posting account.

☑ **Rate (Required/Optional).** Four characters. The rate to be used with computational transaction codes. Required on computational transactions that do not have a default rate.

☑ **Reference1 (Optional).** Ten characters. If entered, overrides any reference fields stripped from the account field.

☑ **Reference2 (Optional).** Ten characters. If entered, overrides any reference fields stripped from the account field.

☑ **Comment (Optional).** Thirty-character general comment.

☑ **Bank (Required/Optional).** Four characters. Required for receipt transaction codes, contains bank ID.

☑ **RefType (Optional).** Two characters. The reference document type. For cash receipts, this is the remit type.

☑ **RefDoc (Optional).** Twenty-two character reference document. For cash receipts, this is the check number.

- ☑ **ReceiptNo (Optional).** Eight-character receipt number. Only used in cash receipt batches.

- ☑ **BillName (Optional).** Thirty-character billing name.

- ☑ **MasterIndex (Optional).** Six characters, right justified, zero filled. Contains the master index.

- ☑ **Apply (Required/Optional).** Two-character Apply flag. Required for cash receipt batches only. Valid values are: Blank – Apply Cash, U – Unapplied Cash, O – Apply to the Oldest, or M – Miscellaneous Cash.

- ☑ **UOM (Optional).** Two-character unit of measure. Can be used for item transactions to specify the unit of measure for the transaction.

- ☑ **Extra (Optional).** Fifty-one characters. This is extra space which is currently not used.

- ☑ **ExtendedDesc (Optional).** This defines the extended descriptions for the batch transaction. See further information on the ARExtendedDesc element below.

- • **ARExtendedDesc.** Extended descriptions are allowed for new document, existing documents, and batch transactions. For documents they will have separate extended descriptions for header messages (HeaderMessages element) and trailer messages (TrailerMessages element). For batch transactions they will be added in the ExtendedDesc element. These extended descriptions are an array of the ARExtendedDesc element described here. There will be one instance of the array for each extended description for the document or transaction.

  - ☑ **HeaderMessages (Optional).** Header message for the document. This is an array of the ARExtendedDesc element described above.

  - ☑ **Trailer Messages (Optional).** Trailer message for the document. This is an array of the ARExtendedDesc element described above.

  - ☑ **Description (Required).** The eighty-character extended description.

AR Batch Creation SOAP Response

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateARBatchResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <CreateARBatchResult>int</CreateARBatchResult>
```

```xml
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```xml
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```

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           </ExistingDocStatus>
         </BatchStatus>
       </CreateARBatchResponse>
    </soap:Body>
</soap:Envelope>
```

- **CreateARBatchResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

The remaining portion details the batch processing status. Following are detailed descriptions of the fields and their values.

☑ **Overall.** This is the overall status of purchasing batch creation. If this value is "Y," the creation of the accounts receivable batch was successful, and the batch was posted or closed as requested by the input flags.

☑ **NewDocOverall.** This is the overall status of the new documents in the batch. If this value is "true," the creation of the document was successful. If this value is "false," the document was not created.

☑ **ExistingDocOverall.** This is the overall status of the existing documents in the batch. If this value is "true," the existing document was successfully modified. If this value is "false," the document was not modified.

☑ **BatchType.** This is the edit status of the batch type. A "Y" value means the edit was successful. A " " value means that it was not edited due to "CreateARBatchResult" not being successful. If there is an edit failure on batch type, no further edits are performed because of processing dependencies. Edit failure values follow.

> ➢ "N" The batch type does not exist.

> ➢ "1" The batch type was invalid for this application ($BT-BFILE-LOC).

> ➢ "2" The batch type can not be used by the maintenance function ($HDR-BATCH-IN-DSET).

> ➢ "3" The batch type can not be used by the interaction function ($HDR-INTERACT-CREATE).

> ➢ "4" The destination ledger batch type is invalid.

> ➢ "5" The encumbrance batch type is invalid.

> ➢ "6" The secondary ledger batch type is invalid.

> ➢ "7" The secondary encumbrance batch type is invalid.

> ➢ "8" The batch type requires auto numbering and a batch number was entered.

> ➢ "9" The batch type does not support auto numbering and a number was not entered.

> ➢ "R" The batch type requires a number to be entered.

> ➢ "A" The batch type requires auto numbering.

☑ **BatchCtl.** This is the edit status of the batch control. A "Y" value means that all edits were successful. A " " value means that it was not edited. Edit failure values follow. If batch control edits fail, no further edits are performed for the batch.

> "N"   Security failure getting batch control.

> "1"   The batch is posted.

> "2"   The batch is busy.

> "3"   The batch is purged.

> "4"   Security failure – user does not have access.

> "5"   User entered does not match user for the batch.

> "6"   Failure trying to add the batch.

☑ **Period.** This is the edit status of the period. A "Y" value means edits were successful. Edit failure values follow. If period edits fail, no further edits are performed for the batch.

> "N"   An invalid period was entered.

> "1"   The period/year is not open.

> "2"   The period/year cannot be future period.

☑ **Year.** This is the edit status of the year edits. A "Y" value means edits were successful. Edit failure values follow. If year edits fail, no further edits are performed for the batch.

> "N"   An invalid year was entered.

> "1"   The period/year is not open.

> "2"   The period/year cannot be a future period.

☑ **Net.** This is the edit status of the control total if used by the batch type. A "Y" value means edits were successful. An "N" value means that a control total was required, but not entered.

☑ **AdjNet.** This is the edit status of the adjustment total if used by the batch type. A "Y" value means edits were successful. An "N" value means the adjustment total was bad.

☑ **DHCount.** This is the edit status of the document header count. A "Y" value means edits were successful. An "N" value means the document header count was bad.

☑ **TXCount.** This is the edit status of the transaction record count. A "Y" value means edits were successful. An "N" value means the transaction record count was bad.

☑ **User.** This is the edit status of the user. A "Y" value means edits were successful. A " " value means that it was not edited. Edit failure values follow. If user edits fail, no further edits are performed for the batch.

   ➢ "N"   User is bad.

   ➢ "1"   Security fails on user.

☑ **Gencon.** This is the edit status of the GenCon. A "Y" value means edits were successful. An "N" value means that the GenCon was bad.

☑ **Bank.** This is the edit status for the bank. A "Y" value means edits were successful.
An "N" value means an invalid bank was entered.

☑ **Posted.** This is the posting status if the batch was successfully created. This field is only significant if the "Overall" flag for the batch indicates success. Values for the posting field follow.

   ➢ "S"   The batch was submitted for posting synchronously.

   ➢ "B"   The batch was submitted for posting background.

   ➢ "V"   The batch was closed and set to "valid" status.

   ➢ "R"   The batch was closed and set to "released" status.

   ➢ "I"   The batch was closed and set to "invalid" status due to having invalid control totals.

   ➢ "D"   The batch was deleted due to edit errors during batch creation.

☑ **NewDocs.** This is the new document status. A "Y" value means new document edits were successful. An "N" value means there was an edit failure in a new document.
See ARBatchNewDocumentStatus (below) array for details on the edit failure.

☑ **Documents.** This is the "Overall" status for the documents in the batch, new and existing. If there was an edit error on any document (or a line item for a document) in the batch, this will be "N." If all the documents were successfully edited, this will be "Y."

- Following is a description of the status fields in ARBatchNewDocumentStatus.

  ☑ **Overall.** This is the overall status of the document. A "Y" value means that all edits were successful for the document and all line items in the document. A " " value means that it was not edited due to previous edit failure. An "N" value means there were edit errors.

  ☑ **RefType.** This is the reference document type status. A "Y" value means all edits were successful. An "N" value means an invalid reference document type was entered.

  ☑ **RefDoc.** This is the reference document status. A "Y" value means all edits were successful. An "N" value means an invalid reference document number was entered.

  ☑ **Ref2Type.** This is the reference document type 2 status. A "Y" value means all edits were successful. An "N" value means an invalid reference document type was entered.

  ☑ **Ref2Doc.** This is the reference document type 2 status. A "Y" value means all edits were successful. An "N" value means an invalid reference document number was entered.

  ☑ **PrintFlag.** This is the print flag status. A "Y" value means all edits were successful. An "N" means the print flag entered was invalid.

  ☑ **DocType.** This is the document type status. A "Y" value means all edits were successful. An "N" means the document type entered was invalid.

  ☑ **Document.** This is the document number status. A "Y" value means all edits were success. A " " value means an edit failure occurred. Edit failure values are listed below.

  ➢ "N" Bad document number.

  ➢ "1" Security failure.

  ➢ "2" Duplicate document not allowed.

  ➢ "3" Document is locked in another batch.

- ☑ **CustId.** This is the customer ID status. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  - ➢ "N" Bad customer.

  - ➢ "1" No unique customer.

  - ➢ "2" Security failure.

  - ➢ "3" Inactive customer.

  - ➢ "4" Customer not for ledger.

  - ➢ "5" Customer not sharable.

  - ➢ "6" Customer not authorized.

  - ➢ "7" Customer ID cannot be added when it is auto-assigned.

- ☑ **User.** This is the user status. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  - ➢ "N" Bad user.

  - ➢ "1" Security failure.

- ☑ **Org.** This is the status for the organization. A "Y" value means all edits were successful. An "N" means the organization was invalid.

- ☑ **DocDate.** This is the status for the document date. A "Y" value means all edits were successful. An "N" means the document date was invalid.

- ☑ **Terms.** This is the status for the terms. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  - ➢ "N" Bad terms.

  - ➢ "1" Security failure.

- ☑ **DueDate.** This is the status for the document due date. A "Y" value means all edits were successful. An "N" means the due date entered was invalid.

☑ **BillStat.** This is the status for the bill status. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  ➢ "N" Bad bill status.

  ➢ "1" Security failure.

☑ **Salesman.** This is the status for the salesman. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  ➢ "N" Bad salesman.

  ➢ "1" Security failure.

☑ **Currency.** This is the status for the currency. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  ➢ "N" Bad currency.

  ➢ "1" Security failure.

☑ **Amount.** This is the status for the document amount. A "Y" value means all edits were successful. An "N" value means the amount was invalid.

☑ **PreEditRule.** This is the rule processing status. A "Y" value means that all edits were successful. Failure status is listed below:

  ➢ "N" There was an edit failure in the rule.

☑ **PostEditRule.** This is the rule processing status. A "Y" value means that all edits were successful. Failure status is listed below.

  ➢ "N" There was an edit failure in the rule.

☑ **RuleStatus.** When the Rule Status is "N," this integer value (custom) gives detailed information on the edit failure.

☑ **ExtendedDesc.** This is the status for the extended description section. A "Y" value means that all edits were successful. An "N" status means there was an error in the extended description section.

- ☑ **TransactionOverall.** This is the status for the transactions. A "Y" value means that all edits were successful. An "N" status means there was an error in the transaction section.

- ☑ **NewDocIndex.** This is the document index. It is six characters. This is returned if the SendDocID flag is "Y."

- ☑ **NewDocID.** This is the document ID for the new AR document. It is twenty-four characters, a two-character document type, plus a twenty-two character document number. This is returned if the SendDocID flag is "Y."

- ☑ **CreateCustomer.** This is the status created customer. A "Y" value means the customer was created successfully. This field is only returned if the CreateCustomer flag is "Y." Error values are as follows:

  - ➢ "1" Duplicate Customers not allowed.

  - ➢ "2" FMS user is not allowed to add customers.

  - ➢ "N" Unable to add new customer.

- ☑ **NewCustIndex.** If the customer is successfully created, this is the new customer control. This field is only returned if the CreateCustomer flag is "Y."

- ☑ **Master.** This status is for the master customer code. A "Y" value means that the master is valid. The edit failure value is following:

  - ➢ "N" Master does not exist.

  - ➢ "1" Master is a sub-customer.

- ☑ **CustomerType.** Customer type field status. A "Y" value means that a valid value was entered ($AR-CST-TYPE table). An "N" value means an invalid value was entered.

- ☑ **MinorityCode.** Minority code field status. A "Y" value means that a valid value was entered ($AR-MINORITY table). An "N" value means an invalid value was entered.

- ☑ **PrimaryProd.** Primary product field status. A "Y" value means that a valid value was entered ($AR-PRIMPROD table). An "N" value means an invalid value was entered.

- ☑ **SIC.** SIC field status. A "Y" value means that a valid value was entered ($AR-SIC table). An "N" value means an invalid value was entered.

☑ **Status.** Customer status field status. A "Y" value means that a valid value was entered ($AR-BILL-STATUS table). An "N" value means an invalid value was entered.

☑ **Territory.** Territory field status. A "Y" value means that a valid value was entered ($AR-TERR table). An "N" value means an invalid value was entered.

☑ **ActiveMaster.** Customer active master update field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **AgeClass.** Age class field status. A "Y" value means that a valid value was entered ($AR-AGE-CLASS table). An "N" value means an invalid value was entered.

☑ **BaseDateCode.** Customer base date code field status. A "Y" value means that a valid value was entered (D, C, F, or T). An "N" value means an invalid value was entered.

☑ **CreditLimit.** Credit limit field status. A "Y" value means that a valid amount was entered.

☑ **CurrencyCode.** Currency code field status. A "Y" value means that a valid value was entered ($AR-CURR table). An "N" value means an invalid value was entered.

☑ **DateLastCreditReview.** Last credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **DateNextCreditReview.** Next credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **GraceDays.** Grace days field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **Override.** Override flag field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **PrintBill.** Print bill flag field status. A "Y" value means that a valid value was entered). An "N" value means an invalid value was entered.

☑ **PrintStatement.** Print statement flag field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **RemitTo.** Remit to field status. A "Y" value means that a valid value was entered ($AR-REMIT table). An "N" value means an invalid value was entered.

☑ **CreditRep.** Credit representative field status. A "Y" value means that a valid value was entered ($AR-REP table). An "N" value means an invalid value was entered.

☑ **SalesRep.** Sales representative field status. A "Y" value means that a valid value was entered ($AR-SALESMAN table). An "N" value means an invalid value was entered.

☑ **Share.** Share flag field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **StatementCycle.** Statement cycle field status. A "Y" value means that a valid value was entered ($AR-CYCLE table). An "N" value means an invalid value was entered.

☑ **TermsRateKey.** Terms rate key field status. A "Y" value means that a valid value was entered ($AR-RATE table). An "N" value means an invalid value was entered.

☑ **MiscTran.** Miscellaneous transaction field status. A "Y" value means that a valid value was entered ($AR-TRANS table). An "N" value means an invalid value was entered. A "1" means the transaction code entered is not a miscellaneous transaction code.

☑ **Send.** This is the Send status. An "N" means that the value does not exist in the $PO-SEND table.

☑ **Individual.** Individual field status. A "Y" means a valid value was entered and the customer name and bill name are set up. An "N" means an invalid value was entered.

☑ **ContactPhone2Type.** Contact Phone 2 type status. A "Y" means a valid type was entered. An "N" means the entered type was invalid.

☑ **Phone1.** Phone 1 type status. A "Y" means a valid type was entered. An "N" means the entered type was invalid.

☑ **Phone2.** Phone 2 type status. A "Y" means a valid type was entered. An 'N' means the entered type was invalid.

☑ **Phone3.** Phone 3 type status. A "Y" means a valid type was entered. An 'N' means the entered type was invalid.

☑ **Dept.** Department status. A 'Y' means a valid type was entered. An 'N' means the entered type was invalid. A '1' means it was not allowed to read the table due to security.

☑ **AutoCustId.** If a customer is successfully created and the site is configured to auto-assign a customer ID, this is the new customer ID that was automatically assigned.

- Following is a description of the status fields in ARBatchExistingDocumentStatus.

  ☑ **Overall.** This is the overall status of the document. A "Y" value means that all edits were successful for the document and all line items in the document. A " " value means that it was not edited due to previous edit failure. An "N" value means there were edit errors.

  ☑ **Index.** This is the status value for the document index. A "Y" value means the index was valid. An "N" value means the index was bad.

  ☑ **RefType.** This is the reference document type status. A "Y" value means all edits were successful. An "N" value means an invalid reference document type was entered.

  ☑ **RefDoc.** This is the reference document status. A "Y" value means all edits were successful. An "N" value means an invalid reference document number was entered.

  ☑ **DocType.** This is the document type status. A "Y" value means all edits were successful. An "N" means the document type entered was invalid.

  ☑ **Document.** This is the document number status. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  - ➢ "N" Bad document number.

  - ➢ "1" Security failure.

  - ➢ "2" Duplicate document not allowed.

  - ➢ "3" Document is locked in another batch.

  ☑ **CustId.** This is the customer ID status. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

  - ➢ "N" Bad customer.

  - ➢ "1" Not a unique customer.

  - ➢ "2" Security failure.

- ➢ "3" Inactive customer.

- ➢ "4" Customer not for ledger.

- ➢ "5" Customer not sharable.

- ➢ "6" Customer not authorized.

☑ **User.** This is the user status. A "Y" value means all edits were successful. A " " value means an edit failure occurred. Edit failure values are listed below.

- ➢ "N" Bad user.

- ➢ "1" Security failure.

☑ **Org.** This is the status for the organization. A "Y" value means all edits were successful. An "N" means the organization was invalid.

☑ **Amount.** This is the status for the document amount. A "Y" value means all edits were successful. An "N" value means the amount was invalid.

☑ **PreEditRule.** This is the rule processing status. A "Y" value means that all edits were successful. Failure status is listed below:

- ➢ "N" There was an edit failure in the rule.

☑ **PstEditRule.** This is the rule processing status. A "Y" value means that all edits were successful. Failure status is listed below.

- ➢ "N" There was an edit failure in the rule.

☑ **RuleStatus.** When the Rule Status is "N," this integer value (custom) gives detailed information on the edit failure.

☑ **ExtendedDesc.** This is the status for the extended description section. A "Y" value means that all edits were successful. An "N" status means there was an error in the extended description section.

☑ **TransactionOverall.** This is the status for the transactions. A "Y" value means that all edits were successful. An "N" status means there was an error in the transaction section.

☑ **Master.** This status is for the master customer code. A "Y" value means that the master is valid. The edit failure value is following:

- ➢ "N" Master does not exist.

➢ "1"   Master is a sub-customer.

☑ **CustomerType.** Customer type field status. A "Y" value means that a valid value was entered ($AR-CST-TYPE table). An "N" value means an invalid value was entered.

☑ **MinorityCode.** Minority code field status. A "Y" value means that a valid value was entered ($AR-MINORITY table). An "N" value means an invalid value was entered.

☑ **PrimaryProd.** Primary product field status. A "Y" value means that a valid value was entered ($AR-PRIMPROD table). An "N" value means an invalid value was entered.

☑ **SIC.** SIC field status. A "Y" value means that a valid value was entered ($AR-SIC table). An "N" value means an invalid value was entered.

☑ **Status.** Customer status field status. A "Y" value means that a valid value was entered ($AR-BILL-STATUS table). An "N" value means an invalid value was entered.

☑ **Territory.** Territory field status. A "Y" value means that a valid value was entered ($AR-TERR table). An "N" value means an invalid value was entered.

☑ **ActiveMaster.** Customer active master update field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

☑ **AgeClass.** Age class field status. A "Y" value means that a valid value was entered ($AR-AGE-CLASS table). An "N" value means an invalid value was entered.

☑ **BaseDateCode.** Customer base date code field status. A "Y" value means that a valid value was entered (D, C, F, or T). An "N" value means an invalid value was entered.

☑ **CreditLimit.** Credit limit field status. A "Y" value means that a valid amount was entered.

☑ **CurrencyCode.** Currency code field status. A "Y" value means that a valid value was entered ($AR-CURR table). An "N" value means an invalid value was entered.

☑ **DateLastCreditReview.** Last credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **DateNextCreditReview.** Next credit review date field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **GraceDays.** Grace days field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **Override.** Override flag field status. A "Y" value means that a valid value was entered (Y or N). An "N" value means an invalid value was entered.

- ☑ **PrintBill.** Print bill flag field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **PrintStatement.** Print statement flag field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **RemitTo.** Remit to field status. A "Y" value means that a valid value was entered ($AR-REMIT table). An "N" value means an invalid value was entered.

- ☑ **CreditRep.** Credit representative field status. A "Y" value means that a valid value was entered ($AR-REP table). An "N" value means an invalid value was entered.

- ☑ **SalesRep.** Sales representative field status. A "Y" value means that a valid value was entered ($AR-SALESMAN table). An "N" value means an invalid value was entered.

- ☑ **Share.** Share flag field status. A "Y" value means that a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **StatementCycle.** Statement cycle field status. A "Y" value means that a valid value was entered ($AR-CYCLE table). An "N" value means an invalid value was entered.

- ☑ **TermsRateKey.** Terms rate key field status. A "Y" value means that a valid value was entered ($AR-RATE table). An "N" value means an invalid value was entered.

- ☑ **MiscTran.** Miscellaneous transaction field status. A "Y" value means that a valid value was entered ($AR-TRANS table). An "N" value means an invalid value was entered. A "1" means the transaction code entered is not a miscellaneous transaction code.

- ☑ **Send.** This is the Send status. An "N" means that the value does not exist in the $PO-SEND table.

☑ **Individual.** Individual field status. A "Y" means the individual name is valid and the customer name and bill name were set up. An "N" means the individual flag value was invalid.

☑ **ContactPhone2Type.** Contact Phone 2 type status. A "Y" means that a valid value was entered. An "N" means an invalid value was entered.

☑ **Phone1.** Phone 1 type status. A "Y" means that a valid value was entered. An "N" means an invalid value was entered.

☑ **Phone2.** Phone 2 type status. A "Y" means that a valid value was entered. An "N" means an invalid value was entered.

☑ **Phone3.** Phone 3 type status. A "Y" means that a valid value was entered. An "N" means an invalid value was entered.

• Following is a description of the status fields in ARBatchTransactionStatus.

☑ **Overall.** This is the overall status for this transaction. A "Y" value means edits were successful for the transaction. A " " value means that it was not edited due to previous edit failure. An "N" value means that there were edit errors.

☑ **TransCode.** This is the status for the transaction code. A "Y" value means that the edits were successful. A " " value means that an edit failure occurred. Edit failure values are listed below.

> "N"   Bad transaction code.

> "1"   Security failure.

> "2"   Entry not for ledger.

☑ **Item.** This is the status for the item. A "Y" value means a valid item was entered. A " " value means an edit failure occurred. Edit failure values are listed below.

> "N"   Bad item.

> "1"   Item not authorized.

> "2"   Item cannot be blank.

☑ **RefDate.** This is the status for the reference date. A "Y" value means a valid date was entered. An "N" value means an invalid date was entered.

☑ **Amount.** This is the status for the amount. A "Y" value means a valid amount was entered. An "N" value means an invalid amount was entered.

☑ **Quantity.** This is the status for the quantity. A "Y" value means a valid quantity was entered. An "N" value means an invalid quantity was entered.

☑ **Price.** This is the status for the price. A "Y" value means a valid price was entered. A " " value means an edit failure occurred. Edit failure values are listed below.

   ➢ "N"   Bad price.

   ➢ "1"   Cannot override price.

   ➢ "2"   Price is required.

☑ **Account.** This is the GL account edit status. Failure statuses are listed below:

   ➢ "N"   There was an edit failure on the GL account. See AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

   ➢ "C"   There was an edit failure on the GL contra account. See AccountSubStatus for detailed information on the failure. See the ErrorAcct status for the account number that failed the edit (this is the account number which the edits were performed on after all merges were done).

☑ **AcctSubStatus.** This is the detailed edit failure status for GL accounts. The "Account" status (above) indicates which GL account failed. Detailed status values are listed below:

   ➢ "1"   Success.

   ➢ "2"   Security failure.

   ➢ "3"   Cannot determine primary target ledger.

   ➢ "4"   Cannot find batch type for primary target ledger.

   ➢ "5"   Cannot find custom table for account edit.

   ➢ "6"   Account contains invalid characters.

   ➢ "7"   Merge template contains invalid characters.

   ➢ "8"   Merge template override not allowed for allocating transactions.

- ➢ "9" Cannot override account template.

- ➢ "10" Merge template is too long.

- ➢ "11" Account merge results are too long.

- ➢ "12" Accounts are not allowed for this transaction code.

- ➢ "13" Merge of account with template failed.

- ➢ "14" Account cannot be blank.

- ➢ "15" Failure in initializing defaulting posting fields.

- ➢ "16" Failure in defaulting posting fields.

- ➢ "17" Failure in formatting posting fields.

- ➢ "18" Failure in formatting the account.

- ➢ "19" Invalid characters in the account.

- ➢ "20" Reference date is invalid.

- ➢ "21" Data type on this transaction is invalid.

- ➢ "22" Posting period is invalid.

- ➢ "23" Posing year is invalid.

- ➢ "24" Batch description is invalid.

- ➢ "25" Reference fields are invalid.

- ➢ "26" Data entry GenCon failure.

- ➢ "27" Data entry GenCon edit failure.

- ➢ "28" Account entry field length exceeds maximum length.

- ➢ "29" GenCon program trying to execute does not exist.

- ➢ "30" Failure in formatting the template.

- ➢ "31" Invalid entry for the account.

- ➢ "32" Summary funds account contains invalid characters.

- ➢ "33" Data file is invalid.

- ➢ "34" Account/Datatype/Datafile is not authorized.

- ➢ "35" Batch type requires Account/Datatype/Datafile to be authorized.

- ➢ "36" Invalid data type encountered.

- ➢ "37" Improper fields entered for this edit pattern for the account.

- ➢ "38" Account/Datatype/Datafile is not authorized.

- ➢ "39" Batch does not allow auto authorization.

- ➢ "40" Account requires auto authorization and data type is invalid.

- ➢ "41" Account/Datatype/Datafile is not authorized.

- ➢ "42" One or more field codes are not authorized.

- ➢ "43" One or more field codes are not authorized.

- ➢ "44" One or more field codes are not authorized.

- ➢ "45" Security violation.

- ➢ "46" Unexpected error occurred during validation.

- ☑ **ErrorAccount.** This is the fully merged and formatted account which failed edits (when "Account" status is "N").

- ☑ **GenCon.** This is the GenCon processing status. A "Y" value means that all edits were successful. An "N" means there was an edit failure in the GenCon.

- ☑ **GenconStatus.** When the GenCon status is "N," this integer value (custom) gives detailed information on the edit failure.

- ☑ **Rate.** This is the status for the rate. A "Y" value means that all edits were successful. An "N" means that the rate was invalid.

- ☑ **Ref1.** Unused at this time.

- ☑ **Ref2.** Unused at this time.

- ☑ **RefType.** Unused at this time.

- ☑ **RefDoc.** Unused at this time.

- ☑ **ReceiptNo.** Unused at this time.

- ☑ **BillName.** Unused at this time.

- ☑ **Apply.** This is the status for the Apply flag. A "Y" value means that a valid apply flag was entered. An "N" means that the entered Apply flag was invalid.

- ☑ **Bank.** This is the status for the bank. A "Y" means the bank was valid. A " " value means an edit failure occurred. Edit failure values are listed below.

  - ➢ "N" Bank was bad.

  - ➢ "1" Bank is required.

  - ➢ "2" Security failure.

- ☑ **MasterIndex.** This is the status for the master index. A "Y" value means the master index was valid. An "N" value means an edit failure occurred.

- ☑ **UOM.** This is the status for unit of measure. A "Y" value means the unit of measure was valid. An "N" value means an edit failure occurred.

- ☑ **Conversion.** This is the status for conversion. A "Y" value means a valid conversion was entered. An "N" value means an edit failure occurred.

- ☑ **PreEditRule.** This is the rule processing status. A "Y" value means no edit errors occurred. An "N" value means an edit failure.

- ☑ **PstEditRule.** This is the rule processing status. A "Y" value means no edit errors. An "N" value means an edit failure occurred.

- ☑ **RuleStatus.** When the Rule Status is "N," this integer value (custom) gives detailed information on the edit failure.

- ☑ **ExtendedDesc.** This is the overall status for adding extended descriptions for the transaction. If any one of the extended descriptions experienced an edit failure, this value will be "N."

- ☑ **ExtendedDescStatus.** There will be an array of these, one for each extended description added. The Overall element says whether the message was successfully added or there was an edit failure (Y or N).

- Following is a description of the status fields in ARExtendedDescStatus.

  - ☑ **Overall.** This is the overall status for the extended descriptions. This may appear in the document section for any header and/or trailer messages for new and existing documents. This may also appear in the section for transactions. A "Y" value means the extended description entered was valid. An "N" value indicates an edit failure.

  - ☑ **BfileFmt.** Extended descriptions are only allowed for Invoice and Item Invoice type batches. A "Y" value means that the batch does support extended descriptions and the extended description has been successfully added. An "N" value means that the batch is not an Invoice or Item Invoice type batch and does not support extended descriptions. This would be the case if the batch type element, $BFILE-FMT in the $BATCH-TYPE-OBJ table, is not "IN" or "IT."

Add Purchasing Item (POItemAdd Web Method)

This web service is used to add an item in FMSPO. This web method will perform all functionality of POIA (Add/Update a Purchasing Item).

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the POItemAdd web method.

```
          .
          .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
POItemAddStatus statusRec;
POItemAdd inputRec = new POItemAdd();

//Fill the inputRec object with information on the Purchasing item
you wish to add.
.
.
Result = fms.POItemAdd(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Add PO Item SOAP Request

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <POItemAdd xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <itemInput>
        <ItemId>string</ItemId>
```

```
<User>string</User>
<MasterId>string</MasterId>
<ShortName>string</ShortName>
<ConvDflt>string</ConvDflt>
<ActiveFlag>string</ActiveFlag>
<Authorize>string</Authorize>
<ConvBoth>string</ConvBoth>
<Buyer>string</Buyer>
<Commodity>string</Commodity>
<CompFlag>string</CompFlag>
<CrateKey>string</CrateKey>
<CurrentDate>string</CurrentDate>
<FutureDate>string</FutureDate>
<LastDate>string</LastDate>
<Desc30>string</Desc30>
<ExpDays>int</ExpDays>
<ExpHow>string</ExpHow>
<ExpKey>string</ExpKey>
<ExpMrgUser>string</ExpMrgUser>
<ExpMrgVend>string</ExpMrgVend>
<FuturePrice>decimal</FuturePrice>
<GlAcct>string</GlAcct>
<GlContraAcct>string</GlContraAcct>
<GlStat>string</GlStat>
<Group>string</Group>
<HowComputed>string</HowComputed>
<Inspection>string</Inspection>
<InspecPlan>string</InspecPlan>
<InvType>string</InvType>
<InvItemId>string</InvItemId>
<ConvItem>string</ConvItem>
<LastPrice>decimal</LastPrice>
<LastReviewDate>string</LastReviewDate>
<MaintFlag>string</MaintFlag>
<MergeUser>string</MergeUser>
<MergeVend>string</MergeVend>
<NotifyIfLate>string</NotifyIfLate>
<NextReviewDate>string</NextReviewDate>
<CurrPriceRate>string</CurrPriceRate>
<FuturePriceRate>string</FuturePriceRate>
<LastPriceRate>string</LastPriceRate>
<Price>decimal</Price>
<ProductType>string</ProductType>
<ReceiptRequired>string</ReceiptRequired>
<ReferenceDate>string</ReferenceDate>
<ReviewCycle>string</ReviewCycle>
<ShareFlag>string</ShareFlag>
<ShippingCode>string</ShippingCode>
<StdMsg1>string</StdMsg1>
<StdMsg2>string</StdMsg2>
<StdMsg3>string</StdMsg3>
<StdMsg4>string</StdMsg4>
<StdMsg5>string</StdMsg5>
<StdRate1>string</StdRate1>
<StdRate2>string</StdRate2>
<StdRate3>string</StdRate3>
```

```
            <StdRate4>string</StdRate4>
            <StdRate5>string</StdRate5>
            <StdRate6>string</StdRate6>
            <Uom>string</Uom>
            <UserField1>string</UserField1>
            <UserField2>string</UserField2>
            <VendCtrl>string</VendCtrl>
            <VendId>string</VendId>
            <VendAcct>string</VendAcct>
            <VendContraAcct>string</VendContraAcct>
            <ConvVend>string</ConvVend>
            <VendStat>string</VendStat>
            <Volume>decimal</Volume>
            <VolUom>string</VolUom>
            <Weight>decimal</Weight>
            <WeightUom>string</WeightUom>
            <Comment501>string</Comment501>
            <Comment502>string</Comment502>
            <FixedAsset>string</FixedAsset>
            <CustFld1>string</CustFld1>
            <CustFld2>string</CustFld2>
            <CustFld3>string</CustFld3>
            <CustFld4>string</CustFld4>
            <Taxable>string</Taxable>
            <ExtendedDesc>string</ExtendedDesc>
        </itemInput>
      </POItemAdd>
    </soap:Body>
  </soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in the *Add PO Item SOAP Response* section

- Following is a description of the fields in ItemInput.

    ☑ **ItemId (Required).** Twenty-four characters, alphanumeric, left justified in field,
    blank filled to right. Contains a unique user-defined item identification. NOTE:
    Item will be rejected if not unique.

    ☑ **User (Required).** Three characters, numeric. NOTE: Value must exist in the
    $PO-USER table.

    ☑ **MasterId (Optional).** Twenty-four character master item ID. Internal control
    number of the Master Item. Normally blank. If this item is part of an item group,
    the internal master index number is entered here. If entered, must be six-position
    numeric, zero filled on left. The master index number item must precede the
    current item in the input file. NOTE: If left blank, defaults to the item control
    number entered or defaulted. If entered and the index number does not exist, Item
    will be rejected.

☑ **ShortName (Optional).** Ten characters, alphanumeric abbreviated name. NOTE: If left blank, the default will be the first ten positions of the item description.

☑ **ConvDflt (Optional).** One-character - 'No vendor, no item merge.' Valid values are 1, 2, 3, 4, or space.

☑ **ActiveFlag (Optional).** Two-character flag. Indicates whether this item is active. An "A" or blank in the first position means active and an "I" in the first position indicates inactive.

☑ **Authorize (Optional).** One-character. Allowable values are "Y," "N," or blank. Contains code indicating if transactions may be associated with this item. An "N" indicates that the Item is a master item for information purposes only. Defaults to "Y."

☑ **ConvBoth (Optional).** One-character - 'Yes vendor, yes item merge.' Valid values are 1, 2, 3, 4, or space.

☑ **Buyer (Required).** Four-character alphabetic buyer must exist in the $PO-BUYER table.

☑ **Commodity (Optional).** Twelve-character alphabetic commodity. Must exist in the $PO-COMMODITY table.

☑ **CompFlag (Optional).** Two-character flag on how price is computed. Valid values are DR, DD, R, RR, and space. Determines how any rate table entries affect unit price.

☑ **CrateKey (Optional).** Fourteen characters, alphanumeric. Item portion of key to rate table entries for current price computation.

☑ **CurrentDate (Optional).** Eight-character current date in CCYY-MM-DD format. Date that current price is effective.

☑ **FutureDate (Optional).** Eight-character future date in CCYY-MM-DD format. The date on which the future price takes effect.

☑ **LastDate (Optional).** Eight-character last date in CCYY-MM-DD format. The date that the last price was effective.

☑ **Desc30 (Required).** Thirty characters, alphanumeric. User-defined description of the item.

☑ **ExpDays (Optional).** Four characters, numeric, zero fills to the left. The number of days is deducted from the required date to calculate the expedite date.

☑ **ExpHow (Optional).** A two-character alphanumeric code indicating how to expedite the item. "A" means automatically expedited. "M" or blank means manually expedited.

☑ **ExpKey (Optional).** The fourteen-character expedite code used as a key to the $PO-EXPEDITE table. The key can be derived from a combination of the item, vendor, and user expedite keys.

☑ **ExpMrgUser (Optional).** One-position. Allowable values 1, 2, or blank. The order in which the Expedite key is merged.

☑ **ExpMrgVend (Optional).** Indicates the order in which the vendor expedite key is to merge with the user expedite key and item expedite key during transaction entry to form a key to the $PO-EXPEDITE table. Item information is always merged first. Values allowed are 1, 2, and blank. If a 1 is entered, the vendor information will be merged next. If a 2 is entered, the vendor information will merge after the user information, provided that a 1 is entered for the $ITM-EXP-MRG-USER field. A blank indicates that the vendor information is not to be merged.

☑ **FuturePrice (Optional).** Sixteen-character numeric. Up to nine positions to left of decimal and six positions to right of decimal. May be right justified and zero filled on left or left justified and blank filled on right. Decimal point must be explicitly entered in record. Contains the future unit price to default for this Item when a date equal to or greater than the Date Future Effective is used.

☑ **GLAcct (Optional).** Sixty characters, alphanumeric. The General Ledger account number which is associated with this item. It can be completely or partially predefined if some portion of the account is always to be used. This field may be left blank if no portion of the account number is always used. This can be merged with the transaction code, vendor, and user to form the GL account number.

☑ **GLContraAcct (Optional).** Sixty characters, alphanumeric. The General Ledger contra account number which is associated with this item. It can be completely or partially predefined if some portion of the account is always to be used. This field may be left blank if no portion of the account number is always used. This can be merged with the transaction code, vendor, and user to form the GL contra account number. This account receives the opposite signed amount ("-" or "+") of a balanced entry.

☑ **GLStat (Optional).** Three-character General Ledger data type associated with this item.

☑ **Group (Optional).** One-character group flag. Valid values are "N," "Y," or space. A "Y" in the first position indicates whether the item can participate in a gather copy. This means that when the document posts those items collected with gather mode, the items will post as one single line item.

☑ **HowComputed (Optional).** One-character flag for how computed. Allowable values include: A = Price is automatically computed by system using various price and rate fields, M = Price must be entered, or Blank = Price may be defaulted and/or entered.

☑ **Inspection (Optional).** One-character flag for inspection. Valid values are "N," "Y," and space. Defines if inspection is required in conjunction with the Inspections module.

☑ **InspecPlan (Optional).** Four-character inspection plan identifier used with the Inspection module. Must exist in the $PO-INSPECTION-PLAN table.

☑ **InvType (Optional).** Four-character inventory type. Must exist in the $IN-INVENT-TYPE table.

☑ **InvItemId (Optional).** Twenty-four character inventory item ID.

☑ **ConvItem (Optional).** One-character - 'No vendor, yes item merge.' Valid values are 1, 2, 3, 4, or space.

☑ **LastPrice (Optional).** The last unit price charged for this item. The last price can be 17 digits, including the decimal point, with 9 digits to the left and 6 digits to the right.

☑ **LastReviewDate (Optional).** Eight-character last review date in CCYY-MM-DD format.

☑ **MaintFlag (Optional).** One-character maintenance flag which is currently not used.

☑ **MergeUser (Optional).** One-character merge sequence for rate from user. Valid values are 1, 2, or space. Defines order of unit price rate key merging.

☑ **MergeVend (Optional).** One-character merge sequence for rate from vendor. Valid values are 1, 2, or space. Defines order of unit price rate key merging.

☑ **NotifyIfLate (Optional).** Ten-character (any value) notify if late ID.

☑ **NextReviewDate (Optional).** Eight-character next review date in CCYY-MM-DD format.

☑ **CurrPriceRate (Optional).** Fourteen-character current price rate key.

☑ **FuturePriceRate (Optional).** Fourteen-character future price rate key.

☑ **LastPriceRate (Optional).** Fourteen-character last price rate key.

☑ **Price (Optional).** The unit price for this item. The unit price can be up to 17 digits, including the decimal point, with 9 digits to the left and 6 digits to the right. This field corresponds to the Current Unit Price field on the item maintenance screen.

☑ **ProductType (Optional).** Two-character alphanumeric product type must exist in the $IN-INVENT-CLASS table.

☑ **ReceiptRequired (Optional).** One-character. Valid values are "N," "Y," or a space. Defines if a receiver is required for reporting purposes.

☑ **ReferenceDate (Required).** Eight-character reference date in CCYY-MM-DD format. NOTE: This is the last activity date for this Item. It will be maintained by the system after the initial load. For initial load, provide either a valid date of last activity or the load date.

☑ **ReviewCycle (Optional).** Two-character alphanumeric user-defined inventory review cycle.

☑ **ShareFlag (Optional).** One-character share flag. Valid values are "Y," "N," or a space. Defaults to "Y" if blank when adding an item.

☑ **ShippingCode (Optional).** Four-character shipping code must exist in the $IN-LOCATION table.

☑ **StdMsg1 (Optional).** Six-character alphanumeric standard message code. If used, must exist in the extended description table.

☑ **StdMsg2 (Optional).** Six-character alphanumeric standard message code. If used, must exist in the extended description table.

☑ **StdMsg3 (Optional).** Six-character alphanumeric standard message code. If used, must exist in the extended description table.

☑ **StdMsg4 (Optional).** Six-character alphanumeric standard message code. If used, must exist in the extended description table.

☑ **StdMsg5 (Optional).** Six-character alphanumeric standard message code. If used, must exist in the extended description table.

☑ **StdRate1 (Optional).** Fourteen-character alphanumeric standard rate key. Contains portion of a rate table key.

☑ **StdRate2 (Optional).** Fourteen-character alphanumeric standard rate key. Contains portion of a rate table key.

☑ **StdRate3 (Optional).** Fourteen-character alphanumeric standard rate key. Contains portion of a rate table key.

☑ **StdRate4 (Optional).** Fourteen-character alphanumeric standard rate key. Contains portion of a rate table key.

☑ **StdRate5 (Optional).** Fourteen-character alphanumeric standard rate key. Contains portion of a rate table key.

☑ **StdRate6 (Optional).** Fourteen-character alphanumeric standard rate key. Contains portion of a rate table key.

☑ **Uom (Optional).** Two-character unit of measure.

☑ **UserField1 (Optional).** Ten-character alphanumeric user field. User-defined data.

☑ **UserField2 (Optional).** Ten-character alphanumeric user field. User-defined data.

☑ **VendCtrl (Optional).** The six-digit system-assigned vendor identification number.

☑ **VendId (Optional).** Twenty-four character user-defined vendor ID. Must exist in the $PO-VENDOR table.

☑ **VendAcct (Optional).** Twenty-four character vendor actuals template. Must have valid account template values.

☑ **VendContraAcct (Optional).** Twenty-four character vendor contra template. Must contain valid account template values.

☑ **ConvVend (Optional).** One-character, numeric. Allowed values are 1, 2, 3, 4, or blank. Contains the sequence to search for conversion entries. This entry is for searching by unit of measure and vendor.

☑ **VendStat (Optional).** Three characters, alphanumeric vendor statistic.

☑ **Volume (Optional).** Seventeen characters, numeric. Up to twelve positions to left of decimal, up to six positions to right of decimal. Must have at least one

position to the left of the decimal. Can be right justified and zero filled to left or left justified and blank filled to the right. Decimal must be explicitly included in the field.

☑ **VolUom (Optional).** Two characters, alphanumeric. If entered, value must exist in the $PO-UOM table.

☑ **Weight (Optional).** Seventeen characters, numeric. Up to twelve positions to left of decimal, up to six positions to right of decimal. Must have at least one-position to left of decimal. Can be right justified and zero filled to left or left justified and blank filled to the right. Decimal must be explicitly included in the field.

☑ **WeightUom (Optional).** Two characters, alphanumeric. NOTE: If entered, value must exist in the $PO-UOM table.

☑ **Comment50-1 (Optional).** Fifty-character comment.

☑ **Comment50-2 (Optional).** Fifty-character comment.

☑ **FixedAsset (Optional).** One-character, used to set the fixed asset flag for the line item. Valid values are "Y," "N," or space.

☑ **CustFld1 (Optional).** One-character custom field.

☑ **CustFld2 (Optional).** One-character custom field.

☑ **CustFld3 (Optional).** One-character custom field.

☑ **CustFld4 (Optional).** One-character custom field.

☑ **Taxable (Optional).** One-character, used to set the taxable flag for the line item. Valid values are "Y," "N," or space.

☑ **ExtendedDesc (Optional).** Extended descriptions for the line item. This is an array of the POItemExtendedDesc element described below

- **POItemExtendedDesc.** This is an array within Documents and LineItems. There will be one instance of the array for each extended description for the document or line item. Following is a detailed description of the fields and their values.

  ☑ **MessageType (Required).** The two-character message type for the extended description. Will be concatenated with the ledger class to form the $GTF-FORMAT element in GTF. This element is not displayed in the example Soap Request Message above.

  ☑ **MsgID (Optional).** The 40-character message ID to assign to the description.

☑ **MsgSeq (Optional).** The 10-digit message sequence to assign to the description.

☑ **MessageText (Required).** The two-hundred character text for the extended description. Leave blank if a reference to a master message is to be made. Place text here to add new text. This element is not displayed in the example Soap Request Message above.

Add PO Item SOAP Response

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <POItemAddResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <POItemAddResult>int</POItemAddResult>
      <itemStatus>
        <Overall>string</Overall>
        <ItemId>string</ItemId>
        <User>string</User>
        <MasterItem>string</MasterItem>
        <ConvDflt>string</ConvDflt>
        <ActiveFlag>string</ActiveFlag>
        <Authorize>string</Authorize>
        <ConvBoth>string</ConvBoth>
        <Buyer>string</Buyer>
        <Commodity>string</Commodity>
        <CompFlag>string</CompFlag>
        <CurrentDate>string</CurrentDate>
        <FutureDate>string</FutureDate>
        <LastDate>string</LastDate>
        <ExpHow>string</ExpHow>
        <ExpKey>string</ExpKey>
        <ExpMrgUser>string</ExpMrgUser>
        <ExpMrgVend>string</ExpMrgVend>
        <FuturePrice>string</FuturePrice>
        <GlAcct>string</GlAcct>
        <GlContraAcct>string</GlContraAcct>
        <Group>string</Group>
        <HowComputed>string</HowComputed>
        <Inspection>string</Inspection>
        <InspecPlan>string</InspecPlan>
        <InvType>string</InvType>
        <InvItemId>string</InvItemId>
        <ConvItem>string</ConvItem>
        <LastPrice>string</LastPrice>
        <LastReviewDate>string</LastReviewDate>
        <MergeUser>string</MergeUser>
        <MergeVend>string</MergeVend>
        <NextReviewDate>string</NextReviewDate>
        <Price>string</Price>
        <ProductType>string</ProductType>
        <ReceiptRequired>string</ReceiptRequired>
        <LastReferenceDate>string</LastReferenceDate>
        <ShareFlag>string</ShareFlag>
        <ShippingCode>string</ShippingCode>
        <VendorId>string</VendorId>
        <VendAcct>string</VendAcct>
        <VendContraAcct>string</VendContraAcct>
        <ConvVend>string</ConvVend>
```

```
        <VendStat>string</VendStat>
        <Volume>string</Volume>
        <Weight>string</Weight>
        <FixedAsset>string</FixedAsset>
        <Taxable>string</Taxable>
        <RuleStatus>string</RuleStatus>
        <ExtendedDesc>string</ExtendedDesc>
        <ExtendedDescStatus>string</ExtendedDescStatus>
      </itemStatus>
    </POItemAddResponse>
  </soap:Body>
</soap:Envelope>
```

- **POItemAddResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of the document.

   The remaining portion details the status for adding the purchasing item. Following is a detailed description of the fields and their values.

   ☑ **Overall.** This is the overall status for adding the item. If the status is "Y," the item was successfully added. An "N" value means the item was not added due to invalid input. See the following fields for the details of the edit failure.

   ☑ **ItemId.** This status is for item ID. A "Y" value means the item ID is valid. Edit failures are the following:

   ➢ "N"   Edit error.

   ➢ "1"   ItemId cannot be blank.

   ➢ "2"   Maintenance mode and item does not exist.

   ➢ "3"   Security disallows adding an item.

   ➢ "4"   Add mode and item exists.

   ➢ "5"   Modify mode and security failure.

   ➢ "6"   Modify mode. Item exists with a different user and sharable is "Y" – can not add.

   ➢ "7"   Modify mode. Item exists, but is inactive or not sharable.

   ➢ "8"   Modify mode. No unique entry found.

   ➢ "9"   Modify mode. Invalid version.

☑ **User.** This status is for the user field code. A "Y" value means the user is valid. Edit failures are the following.

> ➢ "N"   Edit error.

> ➢ "1"   User does not exist.

> ➢ "2"   Security failure.

☑ **MasterItem.** This status is for the master item ID. A "Y" value means the master item ID is valid. An "N" means it was invalid.

☑ **ConvDflt.** This status is for the no vendor/no item merge. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ActiveFlag.** This status is for the active flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Authorize.** This status is for the authorize flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **ConvBoth.** This status is for the yes vendor, yes item merge. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Buyer.** This status is for the buyer. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Commodity.** This status is for the commodity. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **CompFlag.** This status is for the how price is computed flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **CurrentDate.** This status is for the current date. A "Y" value means a valid date was entered. An "N" value means an invalid date was entered.

☑ **FutureDate.** This status is for the future date. A "Y" value means a valid date was entered. An "N" value means an invalid date was entered.

☑ **LastDate.** This status is for the last date. A "Y" value means a valid date was entered. An "N" value means an invalid date was entered.

☑ **ExpHow.** This status is for the expedite how code. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

- ☑ **ExpKey.** This status is for the expedite key. A "Y" value means a valid entry was entered. An "N" value means an invalid key was entered.

- ☑ **ExpMrgUser.** This status is for the expedite merge user entry. A "Y" value means a valid entry was entered. An "N" value means an invalid value was entered.

- ☑ **ExpMrgVend.** This status is for the expedite merge vendor entry. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **FuturePrice.** This status is for the future price. A "Y" value means a valid price was entered. An "N" value means an invalid price was entered.

- ☑ **GLAcct.** This status is for the GL account. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

- ☑ **GLContraAcct.** This status is for the GL Contra account. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

- ☑ **Group.** This status is for the group. A "Y" value means a valid entry was entered. An "N" value means an invalid entry was entered.

- ☑ **HowComputed.** This status is for the how computed value. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

- ☑ **Inspection.** This status is for the inspection value. A "Y" value means a valid inspection was entered. An "N" value means an invalid inspection was entered.

- ☑ **InspecPlan.** This status is for the inspection plan. A "Y" value means a valid plan was entered. An "N" value means an invalid plan was entered.

- ☑ **InvType.** This status is for the inventory type. A "Y" value means a valid type was entered. An "N" value means an invalid type was entered.

- ☑ **InvItemId.** This status is for the inventory item ID. A "Y" value means a valid inventory item ID. Edit failures are the following.

  - ➢ "N"   Edit error.

  - ➢ "1"   Non-unique item.

☑ **ConvItem.** This status is for the "No vendor, yes item" merge. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **LastPrice.** This status is for the last price. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **LastReviewDate.** This status is for the last review date. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **MergeUser.** This status is for the merge user flag. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **MergeVend.** This status is for the merge vendor flag. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **NextReviewDate.** This status is for the next review date. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **Price.** This status is for the item price. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ProductType.** This status is for the product type. A "Y" value means there was no edit failure. Edit failures are the following:

➢ "N"   Edit error.

➢ "1"   Security failure.

☑ **ReceiptRequired.** This status is for the receipt required. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **LastReferenceDate.** This status is for the last reference date. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ShareFlag.** This status is for the share flag. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ShippingCode.** This status is for the shipping code. A "Y" value means a valid shipping code was entered. Edit failures are the following:

➢ "N"   Edit error.

➢ "1"   Security failure.

☑ **VendorId.** This is the status for the vendor ID. A "Y" value means a valid vendor ID was entered. Edit failures are the following:

➢ "N" Edit error.

➢ "1" Security failure.

☑ **VendAcct.** This is the status for the vendor actuals template. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

☑ **VendContraAcct.** This is the status for the vendor contra template. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

☑ **ConvVend.** This is the status for the "Yes vendor, No item merge." A "Y" value means a valid entry was entered. An "N" value means an invalid entry was made.

☑ **VendStat.** This is the status for vendor statistic. A "Y" value means a valid entry was made. Edit failures are the following:

➢ "N" Edit error.

➢ "1" Security failure.

☑ **Volume.** This is the status for volume. A "Y" means no edit error. An "N" value means an edit error.

☑ **Weight.** This is the status for weight. A "Y" means no edit error occurred. An "N" value means an edit error occurred.

☑ **FixedAsset.** This is the status for the fixed asset flag. A "Y" means no edit error occurred. An "N" value means an edit error occurred.

☑ **Taxable.** One-character used to set the taxable flag for the line item. Valid values are "N," "Y," or space.

☑ **RuleStatus.** This is the status from rule edits. A "Y" means no edit error occurred. An "N" value means an edit error occurred.

☑ **ExtendedDesc.** This is the overall extended description status. An "N" means that there was an edit failure on one of the extended descriptions for the document.

☑ **ExtendedDescStatus.** There will be array of these, one for each extended description added. The Overall element says whether the message was successfully added or there was an edit failure (Y or N).

Modify Purchasing Item (POItemModify Web Method)

This web service is used to update a Purchasing Item. This web method will perform all functionality of POIM (modify a Purchasing item).

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the POItemModify web method.

```
            .
            .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
POItemModifyStatus statusRec;
POItemModify inputRec = new POItemModify();

//Fill the inputRec object with information on the Purchasing item
you wish to modify.
.
.
Result = fms.POItemModify(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, Outputdevice, OSUser, OSPassword, inputRec,
out statusRec);
```

Modify PO Item SOAP Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <POItemModify xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <itemInput>
        <ItemId>string</ItemId>
        <User>string</User>
```

```xml
<MasterId>string</MasterId>
<ShortName>string</ShortName>
<ConvDflt>string</ConvDflt>
<ConvDfltClear>boolean</ConvDfltClear>
<ActiveFlag>string</ActiveFlag>
<ActiveFlagClear>boolean</ActiveFlagClear>
<Authorize>string</Authorize>
<AuthorizeClear>boolean</AuthorizeClear>
<ConvBoth>string</ConvBoth>
<ConvBothClear>boolean</ConvBothClear>
<Buyer>string</Buyer>
<BuyerClear>boolean</BuyerClear>
<Commodity>string</Commodity>
<CommodityClear>boolean</CommodityClear>
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```

```
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<LastReviewDateClear>boolean</LastReviewDateClear>
<MaintFlag>string</MaintFlag>
<MaintFlagClear>boolean</MaintFlagClear>
<MergeUser>string</MergeUser>
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```

```
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            <UserField1>string</UserField1>
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            <VendContraAcctClear>boolean</VendContraAcctClear>
            <ConvVend>string</ConvVend>
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            <Volume>decimal</Volume>
            <VolumeClear>boolean</VolumeClear>
            <VolUom>string</VolUom>
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            <ExtendedDesc>boolean</ExtendedDesc>
        </itemInput>
      </POItemModify>
   </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields are described in the *Modify PO Item SOAP Response* section.

Following is a description of the fields in itemInput.

- Note that each field in this section (which is not a required field) has a corresponding Clear*xxx* field. This boolean value is used to clear (i.e., set to spaces) the corresponding field. If the Clear*xxx* field is "true," the corresponding field is set to spaces. If the Clear*xxx* field is "false" and a value is entered in the corresponding field, this will replace the existing value for the vendor. If the Clear*xxx* field is "false" and the corresponding field is left blank, the existing value for the field is retained for the vendor.

  - ☑ **ItemId (Required).** Twenty-four characters, alphanumeric, left justified in field, blank filled to right. Contains a unique user-defined Item Identification. Item will be rejected if not unique.

  - ☑ **User (Required).** Three characters, numeric. Value must exist in the $PO-USER table.

  - ☑ **MasterId (Optional).** Twenty-four character master item ID.

  - ☑ **ShortName (Optional).** Ten characters, alphanumeric abbreviated name. NOTE: If left blank, the default will be the first ten positions of the item description.

  - ☑ **ConvDflt (Optional).** One-character, numeric. Allowed values are 1, 2, 3, 4, or blank. Contains the sequence to search for conversion entries. This entry is for searching by unit of measure only.

  - ☑ **ActiveFlag (Optional).** Two-character flag. Indicates whether this item is active. Valid values: "A," "I," or a space. An "A" in the first position means active and an "I" in the first position indicates inactive.

  - ☑ **Authorize (Optional).** Two-character item authorize flag. Valid values are "Y," "N," or a space defaults to "Y." A "Y" in the first position indicates that this item is authorized for use rather than a prototype or master item. An "N" indicates that the Item is a master item for information purposes only.

  - ☑ **ConvBoth (Optional).** One-character - 'Yes vendor, yes item merge.' Valid values are 1, 2, 3, 4, or a space.

  - ☑ **Buyer (Required).** Four-character alphanumeric buyer must exist in the $PO-BUYER table.

  - ☑ **Commodity (Optional).** Twelve-character alphanumeric commodity. Must exist in the $PO-COMMODITY table.

  - ☑ **CompFlag (Optional).** Two-character flag on how price is computed. Valid values are DR, DD, R, RR, or a space.

☑ **CrateKey (Optional).** Fourteen-character current price rate key. The rate code or portion of the rate code to be merged with the user and vendor price keys to form a rate key to the $PO-RATE table used to calculate the current price of this item.

☑ **CurrentDate (Optional).** Eight-character current date in CCYY-MM-DD format.

☑ **FutureDate (Optional).** Eight-character future date in CCYY-MM-DD format.

☑ **LastDate (Optional).** Eight-character last date in CCYY-MM-DD format.

☑ **Desc30 (Optional).** Thirty-character item description.

☑ **ExpDays (Optional).** Three characters, numeric, zero fills to the left. The number of days is deducted from the required date to calculate the expedite date.

☑ **ExpHow (Optional).** A two-character alphanumeric code indicating how to expedite the item. "A" means automatically expedited and "M" or blanks means manually expedited.

☑ **ExpKey (Optional).** Fourteen-character alphanumeric expedite key. Must exist in the $PO-EXPEDITE table.

☑ **ExpMrgUser (Optional).** One-character expedite merge user. Valid values are 1, 2, or a space. The order in which the Expedite key is merged.

☑ **ExpMrgVend (Optional).** One-character expedite merge vendor. Valid values are 1, 2, or a space. The order in which the Expedite key is merged.

☑ **FuturePrice (Optional).** Seventeen-character numeric future price.

☑ **GLAcct (Optional).** Sixty-character alphanumeric GL account template. Must contain a valid account template value.

☑ **GLContraAcct (Optional).** Sixty-character alphanumeric GL contra account template. Must contain a valid account template value.

☑ **GLStat (Optional).** Three-character alphanumeric General Ledger data type associated with this item.

☑ **Group (Optional).** One-character group flag. Valid values are "N," "Y," or a space. A "Y" in the first position indicates whether the item can participate in a gather copy. This means that when the document posts those items collected with gather mode, the items will post as one single line item.

☑ **HowComputed (Optional).** One-character flag. Valid values are "A," "M," or a space. This flag indicates whether the system inputs the price or whether the user inputs the price. An "A" means that the system automatically will display the price with no override option. An "M" indicates that the user will manually enter the price. A blank indicates that the system will display the price and allow an override.

☑ **Inspection (Optional).** One-character flag for inspection. Valid values are "N," "Y," or a space. A "Y" in the first position indicates that inspection of this item is required. An "N" in the first position indicates that inspection of this item is not required.

☑ **InspecPlan (Optional).** Four-character alphanumeric inspection plan. Must exist in the $PO-INSPECTION-PLAN table.

☑ **InvType (Optional).** Four-character inventory type. Must exist in the $IN-INVENT-TYPE table.

☑ **InvItemId (Optional).** Twenty-four character inventory item ID.

☑ **ConvItem (Optional).** One-character - 'No vendor, yes item merge.' Valid values are 1, 2, 3, 4, or a space. This entry is for searching by unit of measure and item.

☑ **LastPrice (Optional).** Seventeen-character numeric last price.

☑ **LastReviewDate (Optional).** Eight-character last review date in CCYY-MM-DD format.

☑ **MaintFlag (Optional).** One-character maintenance flag.

☑ **MergeUser (Optional).** One-character merge sequence for rate from user. Valid values are 1, 2, or a space. Defines order of unit price rate key merging.

☑ **MergeVend (Optional).** One-character merge sequence for rate from vendor. Valid values are 1, 2, or a space. Defines order of unit price rate key merging.

☑ **NotifyIfLate (Optional).** Ten-character notify if late ID. Any value is allowed.

☑ **NextReviewDate (Optional).** Eight-character next review date in CCYY-MM-DD format.

☑ **CurrPriceRate (Optional).** Fourteen-character alphanumeric current price rate key.

☑ **FuturePriceRate (Optional).** Fourteen-character alphanumeric future price rate key.

☑ **LastPriceRate (Optional).** Fourteen character alphanumeric last price rate key.

☑ **Price (Optional).** Seventeen-character numeric item price.

☑ **ProductType (Optional).** Two-character alphanumeric product type must exist in the $IN-INVENT-CLASS table.

☑ **ReceiptRequired (Optional).** One-character. Valid values are "N," "Y," or a space. A "Y" indicates that a receiver is required for this item. An "N" indicates that a receiver is not required for this item.

☑ **ReferenceDate (Required).** Eight-character reference date in CCYY-MM-DD format.

☑ **ReviewCycle (Optional).** Two-position, alphanumeric, user-defined inventory review cycle code.

☑ **ShareFlag (Optional).** One-character share flag. Valid values are "N," "Y," or a space. Contains code indicating if this Item can be shared by all user codes. If not, a separate version of the Item must be defined for each user code which will need it. Defaults to "Y" if blank on adding an item.

☑ **ShippingCode (Optional).** Four-character shipping code. Must exist in the $IN-LOCATION table.

☑ **StdRate1-6 (Optional).** Fourteen-character standard rate keys. Up to six codes can appear here. The applicable rate codes for this item that may also be merged to form a rate key. These codes determine the rates, amounts, or computations to be performed against this item, such as sales tax, discounts, freight, etc. The complete rate key must exist in the $PO-RATE table. The value of the PO-RKEYNUM flag on the transaction code record points to the rate to access.

☑ **Uom (Optional).** Two-character unit of measure. If entered, the value must exist in the $PO-UOM table.

☑ **UserField1 (Optional).** Ten-character alphanumeric user-defined field.

☑ **UserField2 (Optional).** Ten-character alphanumeric user-defined field.

☑ **VendCtrl (Optional).** Six-character vendor identification number.

☑ **VendId (Optional).** Twenty-four-character vendor ID. Must exist in the $PO-VENDOR table.

☑ **VendAcct (Optional).** Twenty-four-character vendor actuals template. Must contain valid account template values. The same as the $ITM-GL-ACCT, except that it applies to the purchasing system account. Normally this is blank, as the system will create it.

☑ **VendContraAcct (Optional).** Twenty-four-character vendor contra template. Must contain valid account template values. The same as the $ITM-GL-ACCT, except that it applies to the purchasing system contra account.

☑ **ConvVend (Optional).** One-character - 'yes vendor, no item merge.' Valid values are 1, 2, 3, 4, or space.

☑ **VendStat (Optional).** Three-character vendor statistic. The data type in the Vendor Performance Analysis database associated with units of this item in the purchasing system.

☑ **Volume (Optional).** Seventeen character numeric volume.

☑ **VolUom (Optional).** Two-character alphanumeric volume unit of measure. Indicates the unit of measure by which the volume is sized. If entered, the value must exist in the $PO-UOM table.

☑ **Weight (Optional).** Seventeen-character numeric weight.

☑ **WeightUom (Optional).** Two-character alphanumeric weight unit of measure. Indicates the unit of measure by which the weight is sized. If entered, the value must exist in the $PO-UOM table.

☑ **Comment50-1 (Optional).** Fifty-character comment.

☑ **Comment50-2 (Optional).** Fifty-character comment.

☑ **FixedAsset (Optional).** One-character fixed asset flag. Valid values are "N," "Y," or a space.

☑ **CustFld1 (Optional).** One-character custom field.

☑ **CustFld2 (Optional).** One-character custom field.

☑ **CustFld3 (Optional).** One-character custom field.

☑ **CustFld4 (Optional).** One-character custom field.

☑ **Taxable (Optional).** One-character used to set the taxable flag for the line item. Valid values are "N," "Y," or a space.

☑ **ExtendedDesc (Optional).** This is the overall extended description status. An "N" means that there was an edit failure on one of the extended descriptions for the document.

Modify PO Item SOAP Response

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <POItemModifyResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <POItemModifyResult>int</POItemModifyResult>
      <itemStatus>
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        <ItemId>string</ItemId>
        <User>string</User>
        <MasterItem>string</MasterItem>
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        <LastReferenceDate>string</LastReferenceDate>
        <ShareFlag>string</ShareFlag>
```

```
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                <VendContraAcct>string</VendContraAcct>
                <ConvVend>string</ConvVend>
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                <Weight>string</Weight>
                <FixedAsset>string</FixedAsset>
                <Taxable>string</Taxable>
                <RuleStatus>string</RuleStatus>
                <ExtendedDesc>string</ExtendedDesc>
                <ExtendedDescStatus>string</ExtendedDescStatus>
            </itemStatus>
        </POItemModifyResponse>
    </soap:Body>
</soap:Envelope>
```

- **POItemModifyResponse.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- The remaining portion details the status for modifying the purchasing item. Following is a detailed description of the fields and their values.

    ☑ **Overall.** This is the overall status for modifying the item. If the status is "Y," the item was successfully modified. An "N" value means the item was not modified due to invalid input. See the following fields for the details of the edit failure.

    ☑ **ItemId.** This status is for item ID. A "Y" value means the item ID is valid. Edit failures are the following:

        ➢ "N" Edit error.

        ➢ "1" ItemId cannot be blank.

        ➢ "2" Maintenance mode and item does not exist.

        ➢ "3" Security disallows adding an item.

        ➢ "4" Add mode and item exists.

        ➢ "5" Modify mode and security failure.

        ➢ "6" Modify mode. Item exists with a different user and sharable is "Y" – can not add.

        ➢ "7" Modify mode. Item exists, but is inactive or not sharable.

➢ "8"   Modify mode. No unique entry found.

➢ "9"   Modify mode. Invalid version.

☑ **User.** This status is for the user field code. A "Y" value means the user is valid. Edit failures are the following.

➢ "N"   Edit error.

➢ "1"   User does not exist.

➢ "2"   Security failure.

☑ **MasterItem.** This status is for the master item ID. A "Y" value means the master item ID is valid. An "N" means it was invalid.

☑ **ConvDflt.** This status is for no vendor - no item merge. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ActiveFlag.** This status is for the active flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Authorize.** This status is for authorize flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **ConvBoth.** This status is for the yes vendor, yes item merge. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Buyer.** This status is for the buyer. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **Commodity.** This status is for the commodity. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **CompFlag.** This status is for the comp flag. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **CurrentDate.** This status is for the current date. A "Y" value means a valid date was entered. An "N" value means an invalid date was entered.

☑ **FutureDate.** This status is for the future date. A "Y" value means a valid date was entered. An "N" value means an invalid date was entered.

☑ **LastDate.** This status is for the last date. A "Y" value means a valid date was entered. An "N" value means an invalid date was entered.

☑ **ExpHow.** This status is for the expedite how code. A "Y" value means a valid flag was entered. An "N" value means an invalid flag was entered.

☑ **ExpKey.** This status is for the expedite key. A "Y" value means a valid entry was entered. An "N" value means an invalid key was entered.

☑ **ExpMrgUser.** This status is for the expedite merge user entry. A "Y" value means a valid entry was entered. An "N" value means an invalid value was entered.

☑ **ExpMrgVend.** This status is for the expedite merge vendor entry. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **FuturePrice.** This status is for the future price. A "Y" value means a valid price was entered. An "N" value means an invalid price was entered.

☑ **GLAcct.** This status is for the GL account. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

☑ **GLContraAcct.** This status is for the GL Contra account. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

☑ **Group.** This status is for the group. A "Y" value means a valid entry was entered. An "N" value means an invalid entry was entered.

☑ **HowComputed.** This status is for the how computed value. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **Inspection.** This status is for the inspection value. A "Y" value means a valid inspection was entered. An "N" value means an invalid inspection was entered.

☑ **InspecPlan.** This status is for the inspection plan. A "Y" value means a valid plan was entered. An "N" value means an invalid plan was entered.

☑ **InvType.** This status is for the inventory type. A "Y" value means a valid type was entered. An "N" value means an invalid type was entered.

☑ **InvItemId.** This status is for the inventory item ID. A "Y" value means a valid inventory item ID. Edit failures are the following:

> "N"   Edit error.

> "1"   Non-unique item.

☑ **ConvItem.** This status is for the "No vendor, yes item" merge. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **LastPrice.** This status is for the last price. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **LastReviewDate.** This status is for the last review date. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **MergeUser.** This status is for the merge user flag. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **MergeVend.** This status is for the merge vendor flag. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **NextReviewDate.** This status is for the next review date. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **Price.** This status is for the item price. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ProductType.** This status is for the product type. A "Y" value means there was no edit failure. Edit failures are the following:

  ➢ "N"   Edit error.

  ➢ "1"   Security failure.

☑ **ReceiptRequired.** This status is for a required receipt. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **LastReferenceDate.** This status is for the last reference date. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ShareFlag.** This status is for the share flag. A "Y" value means a valid value was entered. An "N" value means an invalid value was entered.

☑ **ShippingCode.** This status is for the shipping code. A "Y" value means a valid shipping code was entered. Edit failures are the following:

  ➢ "N"   Edit error.

  ➢ "1"   Security failure.

☑ **VendorId.** This is the status for the vendor ID. A "Y" value means a valid vendor ID was entered. Edit failures are the following:

    ➢ "N"   Edit error.

    ➢ "1"   Security failure.

☑ **VendAcct.** This is the status for the vendor actuals template. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

☑ **VendContraAcct.** This is the status for the vendor contra template. A "Y" value means a valid account template was entered. An "N" value means an invalid account template was entered.

☑ **ConvVend.** This is the status for the "Yes vendor, No item merge." A "Y" value means a valid entry was entered. An "N" value means an invalid entry was made.

☑ **VendStat.** This is the status for vendor statistic. A "Y" value means a valid entry was made. Edit failures are the following:

    ➢ "N"   Edit error.

    ➢ "1"   Security failure.

☑ **Volume.** This is the status for volume. A "Y" means no edit error. An "N" value means an edit error.

☑ **Weight.** This is the status for weight. A "Y" means no edit error occurred. An "N" value means an edit error occurred.

☑ **FixedAsset.** This is the status for the fixed asset flag. A "Y" means no edit error occurred. An "N" value means an edit error occurred.

☑ **Taxable.** One-character used to set the taxable flag for the line item. Valid values are "N," "Y," or a space.

☑ **RuleStatus.** This is the status from rule edits. A "Y" means no edit error occurred. An "N" value means an edit error occurred.

☑ **ExtendedDesc.** This is the overall extended description status. An "N" means that there was an edit failure on one of the extended descriptions for the document.

☑ **ExtendedDescStatus.** There will be an array of these, one for each extended description added. The Overall element says whether the message was successfully added or there was an edit failure (Y or N).

Add Accounts Receivable Item (ARItemAdd Web Method)

This web service is used to add an item in Accounts Receivable. This web method will perform all the functionality of the Accounts Receivable Item GenCon which is used to add items in FMSAR.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the ARItemAdd web method.

```
              .
              .
   FMSWebServices fms = new FMSWebServices();
   string FMSUser = "mhandco";
   string FMSPassword1 = "mhandco";
   string FMSPassword2 = null;
   string FMSPassword3 = null;
   string Ledger = "FMSGL";
   string OSUser = "Jim";
   string OSPassword = "JimPassword";
   int Result;
   ARItemAddStatus statusRec;
   ARItemAdd inputRec = new ARItemAdd();

   //Fill the inputRec object with information on the Accounts
   Receivable item you wish to add.
   .
   .
   Result = fms.ARItemAdd(FMSUser, FMSPassword1, FMSPassword2,
   FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
   statusRec);
```

Add AR Item SOAP Request

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ARItemAdd xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <itemInput>
        <ItemId>string</ItemId>
        <IRecDesc>string</IRecDesc>
        <ItemDesc>string</ItemDesc>
        <ShortName>string</ShortName>
        <MasterId>string</MasterId>
        <ShareFlag>string</ShareFlag>
        <Authorize>string</Authorize>
        <ARAccount>string</ARAccount>
        <ARCAccount>string</ARCAccount>
        <GLAccount>string</GLAccount>
        <GLCAccount>string</GLCAccount>
        <UserField1>string</UserField1>
        <UserField2>string</UserField2>
        <GLStat>string</GLStat>
        <ProductClass>string</ProductClass>
        <ConfirmDesc>string</ConfirmDesc>
        <Uom>string</Uom>
        <HowComputed>string</HowComputed>
        <PriceMergeUser>string</PriceMergeUser>
        <PriceMergeCust>string</PriceMergeCust>
        <TolerantPerc>decimal</TolerantPerc>
        <CurrUnitPrice>decimal</CurrUnitPrice>
        <CurrPriceDate>string</CurrPriceDate>
        <CurrPriceRate>string</CurrPriceRate>
        <FuturePrice>decimal</FuturePrice>
        <FuturePriceDate>string</FuturePriceDate>
        <FuturePriceRate>string</FuturePriceRate>
        <LastPrice>decimal</LastPrice>
        <LastPriceRate>string</LastPriceRate>
        <StandardKey1>string</StandardKey1>
        <StandardKey2>string</StandardKey2>
        <StandardKey3>string</StandardKey3>
        <StandardKey4>string</StandardKey4>
        <StandardKey5>string</StandardKey5>
        <StandardKey6>string</StandardKey6>
        <StandardKeyC>string</StandardKeyC>
        <Flags1>string</Flags1>
        <Flags2>string</Flags2>
```

```
            <FieldCode>string</FieldCode>
            <IntExtdDesc>
              <ARItemExtdDesc>
                <Overall>string</Overall>
                <ItemId>string</ItemId>
                <LineNumber>string</LineNumber>
                <SequenceNum>string</SequenceNum>
                <ExtdDesc1>string</ExtdDesc1>
                <ExtdDesc2>string</ExtdDesc2>
                <ExtdDesc3>string</ExtdDesc3>
                <ExtdDesc4>string</ExtdDesc4>
                <ExtdDesc5>string</ExtdDesc5>
                <LineFeed1>string</LineFeed1>
                <LineFeed2>string</LineFeed2>
                <LineFeed3>string</LineFeed3>
                <LineFeed4>string</LineFeed4>
                <LineFeed5>string</LineFeed5>
              </ARItemExtdDesc>
              <ARItemExtdDesc>
                        .
                        .
                        .
              </ARItemExtdDesc>
            </IntExtdDesc>
            <ExtExtdDesc>
              <ARItemExtdDesc>
                <Overall>string</Overall>
                <ItemId>string</ItemId>
                <LineNumber>string</LineNumber>
                <SequenceNum>string</SequenceNum>
                <ExtdDesc1>string</ExtdDesc1>
                <ExtdDesc2>string</ExtdDesc2>
                <ExtdDesc3>string</ExtdDesc3>
                <ExtdDesc4>string</ExtdDesc4>
                <ExtdDesc5>string</ExtdDesc5>
                <LineFeed1>string</LineFeed1>
                <LineFeed2>string</LineFeed2>
                <LineFeed3>string</LineFeed3>
                <LineFeed4>string</LineFeed4>
                <LineFeed5>string</LineFeed5>
              </ARItemExtdDesc>
              <ARItemExtdDesc>
                        .
                        .
                        .
              </ARItemExtdDesc>
            </ExtExtdDesc>
          </itemInput>
        </ARItemAdd>
    </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in the *Add AR Item SOAP Response* section

- Following is a description of the fields in ItemInput.

  ☑ **ItemId (Required).** Twenty-four characters, alphanumeric, left justified in field, blank filled to right. Contains a unique user-defined Item Identification. Item will not be added, if not unique. This will be the long description for the field code.

  ☑ **IrecDesc (Optional).** Thirty-character alphanumeric internal item description.

  ☑ **ItemDesc (Required).** Thirty-character alphanumeric, user-defined description of the item.

  ☑ **ShortName (Optional).** Ten characters, alphanumeric abbreviated name. If left blank, the default will be the first ten positions of the short description for the field code.

  ☑ **MasterId (Optional).** Twenty-four character master item ID.

  ☑ **ShareFlag (Optional).** One-character share flag. Allowable values are "Y," "N," or blank.

  ☑ **Authorize (Optional).** One-character authorize flag. Allowable values are "Y," "N," or blank.

  ☑ **ARAccount (Optional).** Sixty-character Accounts Receivable account for item.

  ☑ **ARCAccount (Optional).** Sixty-character Accounts Receivable contra account for item.

  ☑ **GLAccount (Optional).** Sixty-character General Ledger account number.

  ☑ **GLCAccount (Optional).** Sixty-character General Ledger contra account number.

  ☑ **UserField1 (Optional).** Ten-character alphanumeric user-defined field.

  ☑ **UserField2 (Optional).** Ten-character alphanumeric user-defined field.

  ☑ **GLStat (Optional).** Three-character user-defined General Ledger statistic.

  ☑ **ProductClass (Optional).** Four-character user-defined product class.

  ☑ **ConfirmDesc (Optional).** One-character flag to confirm description. Allowable values are "Y," "N," or blank.

  ☑ **Uom (Optional).** Two-character user-defined unit of measure.

☑ **HowComputed (Optional).** Two-character how to compute. Allowable values are "A" or blank.

☑ **PriceMergeUser (Optional).** One-character flag, item price merge with user. Allowable values are "Y," "N," or blank.

☑ **PriceMergeCust (Optional).** One-character flag, item price merge with customer. Allowable values are "Y," "N," or blank.

☑ **TolerantPerc (Optional).** Seventeen-character numeric value, tolerance override percent. Up to ten positions to the left of decimal and six positions to the right of decimal. Right justified, blank filled to the left and decimal point must be explicitly entered in record. The sign should be placed at the rightmost position.

☑ **CurrUnitPrice (Optional).** Seventeen-character numeric value, current price.

☑ **CurrPriceDate (Optional).** Eight-character current price date in CCYYMMDD format.

☑ **CurrPriceRate (Optional).** Fourteen-character current price rate.

☑ **FuturePrice (Optional).** Seventeen-character, numeric value future price.

☑ **FuturePriceDate (Optional).** Eight-character future price date in CCYYMMDD format.

☑ **FuturePriceRate (Optional).** Fourteen-character future price rate.

☑ **LastPrice (Optional).** Seventeen-character, numeric last item price.

☑ **LastPriceRate (Optional).** Fourteen-character last price rate.

☑ **StandardKey 1 (Optional).** Fourteen-character user-defined standard rate key 1.

☑ **StandardKey2 (Optional).** Fourteen-character user-defined standard rate key 2.

☑ **StandardKey3 (Optional).** Fourteen-character user-defined standard rate key 3.

☑ **StandardKey4 (Optional).** Fourteen-character user-defined standard rate key 4.

☑ **StandardKey5 (Optional).** Fourteen-character user-defined standard rate key 5.

☑ **StandardKey6 (Optional).** Fourteen-character user-defined standard rate key 6.

☑ **StandardKeyC (Optional).** Fourteen-character standard rate key code. If more than six different computations are to be made on this transaction, this element provides the key to another set of six.

☑ **Flags1 (Optional).** Twenty-four character item flag which is currently not used.

☑ **Flags2 (Optional).** Twenty-four character item flag which is currently not used.

☑ **FieldCode (Optional).** The field code to be added.

☑ **IntExtdDesc.** This is an array within ItemInput. There will be one instance of the array for each internal extended description and one instance of the array for each external extended description.

☑ **Overall (Optional).** This is the overall status of the internal extended descriptions.

☑ **ItemId (Required).** Twenty-four characters, alphanumeric, left justified in field, blank filled to right. Contains unique user-defined item identification.

☑ **LineNumber (Optional).** One-character line number.

☑ **SequenceNum (Optional).** Two character numeric sequence number. First must be 01. Others must have incremented numbers. When the sequence of '01' is encountered, all internal extended descriptions associated with this item will be deleted before adding this new one.

☑ **ExtdDesc1 (Optional).** Eighty-character user-defined extended description.

☑ **ExtdDesc2 (Optional).** Eighty-character user-defined extended description.

☑ **ExtdDesc3 (Optional).** Eighty-character user-defined extended description.

☑ **ExtdDesc4 (Optional).** Eighty-character user-defined extended description.

☑ **ExtdDesc5 (Optional).** Eighty-character user-defined extended description.

☑ **LineFeed1 (Optional).** One-character flag if there is a line feed.

☑ **LineFeed2 (Optional).** One-character flag if there is a line feed.

☑ **LineFeed3 (Optional).** One-character flag if there is a line feed.

☑ **LineFeed4 (Optional).** One-character flag if there is a line feed.

☑ **LineFeed5 (Optional).** One-character flag if there is a line feed.

- **ExtExtdDesc.** This is an array within ItemInput. There will be one instance of the array for each internal extended description and one instance of the array for each external extended description.

  - ☑ **Overall (Optional).** This is the overall status of the external extended descriptions.

  - ☑ **ItemId (Required).** Twenty-four characters, alphanumeric, left justified in field, blank filled to right. Contains unique user-defined item identification.

  - ☑ **LineNumber (Optional).** One character, numeric, between 1 and 5. This number will be used to update (increment) the number of the external description line on the Item record.

  - ☑ **SequenceNum (Optional).** Two-character numeric sequence number. First must be 01. Others must have incremented numbers. When the sequence of '01' is encountered, all internal extended descriptions associated with this item will be deleted before adding this new one.

  - ☑ **ExtdDesc1 (Optional).** Eighty-character user-defined extended description.

  - ☑ **ExtdDesc2 (Optional).** Eighty-character user-defined extended description.

  - ☑ **ExtdDesc3 (Optional).** Eighty-character user-defined extended description.

  - ☑ **ExtdDesc4 (Optional).** Eighty-character user-defined extended description.

  - ☑ **ExtdDesc5 (Optional).** Eighty-character user-defined extended description.

  - ☑ **LineFeed1 (Optional).** One-character flag if there is a line feed.

  - ☑ **LineFeed2 (Optional).** One-character flag if there is a line feed.

  - ☑ **LineFeed3 (Optional).** One-character flag if there is a line feed.

  - ☑ **LineFeed4 (Optional).** One-character flag if there is a line feed.

  - ☑ **LineFeed5 (Optional).** One-character flag if there is a line feed.

Add AR Item SOAP Response

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ARItemAddResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <ARItemAddResult>int</ARItemAddResult>
      <itemStatus>
        <Overall>string</Overall>
        <ItemId>string</ItemId>
        <ShortName>string</ShortName>
        <MasterItem>string</MasterItem>
        <ShareFlag>string</ShareFlag>
        <Authorize>string</Authorize>
        <ARAccount>string</ARAccount>
        <ARCAccount>string</ARCAccount>
        <GLAccount>string</GLAccount>
        <GLContraAccount>string</GLContraAccount>
        <ProductClass>string</ProductClass>
        <ConfirmDesc>string</ConfirmDesc>
        <Uom>string</Uom>
        <HowComputed>string</HowComputed>
        <PriceMergeUser>string</PriceMergeUser>
        <PriceMergeCust>string</PriceMergeCust>
        <TolerantPerc>string</TolerantPerc>
        <CurrUnitPrice>string</CurrUnitPrice>
        <CurrPriceDate>string</CurrPriceDate>
        <CurrPriceRate>string</CurrPriceRate>
        <FutUnitPrice>string</FutUnitPrice>
        <FutPriceDate>string</FutPriceDate>
        <FutPriceRate>string</FutPriceRate>
        <LastUnitPrice>string</LastUnitPrice>
        <LastPriceRate>string</LastPriceRate>
        <RuleStatus>string</RuleStatus>
        <IntDescStatus>
          <ARItemExtdDescStatus>
            <Overall>string</Overall>
            <LineNum>string</LineNum>
            <ItemId>string</ItemId>
          </ARItemExtdDescStatus>
          <ARItemExtdDescStatus>
                   .
                   .
                   .
          </ARItemExtdDescStatus>
        </IntDescStatus>
        <ExtDescStatus>
          <ARItemExtdDescStatus>
            <Overall>string</Overall>
            <LineNum>string</LineNum>
            <ItemId>string</ItemId>
```

```
            </ARItemExtdDescStatus>
            <ARItemExtdDescStatus>
                        .
                        .
                        .
            </ARItemExtdDescStatus>
        </ExtDescStatus>
      </itemStatus>
    </ARItemAddResponse>
  </soap:Body>
</soap:Envelope>
```

- **ARItemAddResponse**. This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- The remaining portion details the status for adding the accounts receivable item. Following is a detailed description of the fields and their values.

  - ☑ **Overall.** This is the overall status for adding the AR item. If the status is "Y," the item was successfully added. An "N" value means the item was not added due to invalid input. See the following fields for the details of the edit failure.

  - ☑ **ItemId.** This status is for item ID. A "Y" value means the edit was successful. Edit failures are as follows:

    - ➢ "N" Edit error.

    - ➢ "1" Item does not exist.

  - ☑ **ShortName.** This status is for the short name. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  - ☑ **MasterItem.** This status is for the master item ID. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  - ☑ **ShareFlag.** This status is for the share flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  - ☑ **Authorize.** This status is for the authorize flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  - ☑ **ARAccount.** This status is for the AR account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  - ☑ **ARCAccount.** This status is for the AR Contra account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **GLAccount.** This status is for the GL account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **GLContraAccount.** This status is for the GL Contra account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **ProductClass.** This status is for the product class. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **ConfirmDesc.** This status is for the confirm description flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **Uom.** This status is for the item's unit of measure. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **HowComputed.** This status is for the how computed flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **PriceMergeUser.** This status is for the price merge with user flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **PriceMergeCust.** This status is for the price merge with customer flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **TolerantPerc.** This status is for the tolerant percentage override. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **CurrUnitPrice.** This status is for the current unit price. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **CurrPriceDate.** This status is for the current unit price date. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **CurrPriceRate.** This status is for the current unit price rate. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **FutUnitPrice.** This status is for the future unit price. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **FutPriceDate.** This status is for the future price date. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **FutPriceRate.** This status is for the future price rate. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **LastUnitPrice.** This status is for the last unit price. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **LastPriceRate.** This status is for the last unit price rate. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **RuleStatus.** This status is for the rule status. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **IntDescStatus.** This is the status for the internal extended descriptions

☑ **ExtDescStatus.** This is the status for the external extended descriptions.

- Following is a description of the status fields in ARItemExtdDescStatus.

☑ **Overall.** This is the overall status for the extended description. A "Y" value indicates no error failures. An "N" value indicates there was an edit failure.

☑ **LineNumber.** This status is for the line number for the extended description. A "Y" value indicates the line number was a valid entry. An "N" indicates that the line number used was invalid.

☑ **ItemId.** This status is for the item ID. A "Y" value indicates that the item was found. An "N" indicates the item was not found.

Modify Accounts Receivable Item (ARItemModify Web Method)

This web service is used to modify an item in FMSAR. This web method will perform all the functionality of AR Item GenCon that is used to modify items in FMSAR.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the ARItemModify web method.

```
         .
         .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
ARItemModifyStatus statusRec;
ARItemModify inputRec = new ARItemModify();

//Fill the inputRec object with information on the Accounts
Receivable item you wish to modify.
.
.
Result = fms.ARItemModify(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Modify AR Item SOAP Request

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ARItemModify xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <itemInput>
        <ItemId>string</ItemId>
```

```
<IRecDesc>string</IRecDesc>
<IRecDescClear>boolean</IRecDescClear>
<ItemDesc>string</ItemDesc>
<ItemDescClear>boolean</ItemDescClear>
<ShortName>string</ShortName>
<ShortNameClear>boolean</ShortNameClear>
<MasterId>string</MasterId>
<MasterIdClear>boolean</MasterIdClear>
<ShareFlag>string</ShareFlag>
<ShareFlagClear>boolean</ShareFlagClear>
<Authorize>string</Authorize>
<AuthorizeClear>boolean</AuthorizeClear>
<ARAccount>string</ARAccount>
<ARAccountClear>boolean</ARAccountClear>
<ARCAccount>string</ARCAccount>
<ARCAccountClear>boolean</ARCAccountClear>
<GLAccount>string</GLAccount>
<GLAccountClear>boolean</GLAccountClear>
<GLCAccount>string</GLCAccount>
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<UserField2>string</UserField2>
<UserField2Clear>boolean</UserField2Clear>
<GLStat>string</GLStat>
<GLStatClear>boolean</GLStatClear>
<ProductClass>string</ProductClass>
<ProductClassClear>boolean</ProductClassClear>
<ConfirmDesc>string</ConfirmDesc>
<ConfirmDescClear>boolean</ConfirmDescClear>
<Uom>string</Uom>
<UomClear>boolean</UomClear>
<HowComputed>string</HowComputed>
<HowComputedClear>boolean</HowComputedClear>
<PriceMergeUser>string</PriceMergeUser>
<PriceMergeUserClear>boolean</PriceMergeUserClear>
<PriceMergeCust>string</PriceMergeCust>
<PriceMergeCustClear>boolean</PriceMergeCustClear>
<TolerantPerc>decimal</TolerantPerc>
<TolerantPercClear>boolean</TolerantPercClear>
<CurrUnitPrice>decimal</CurrUnitPrice>
<CurrUnitPriceClear>boolean</CurrUnitPriceClear>
<CurrPriceDate>string</CurrPriceDate>
<CurrPriceDateClear>boolean</CurrPriceDateClear>
<CurrPriceRate>string</CurrPriceRate>
<CurrPriceRateClear>boolean</CurrPriceRateClear>
<FuturePrice>decimal</FuturePrice>
<FuturePriceClear>boolean</FuturePriceClear>
<FuturePriceDate>string</FuturePriceDate>
<FuturePriceDateClear>boolean</FuturePriceDateClear>
<FuturePriceRate>string</FuturePriceRate>
<FuturePriceRateClear>boolean</FuturePriceRateClear>
<LastPrice>decimal</LastPrice>
<LastPriceClear>boolean</LastPriceClear>
<LastPriceRate>string</LastPriceRate>
<LastPriceRateClear>boolean</LastPriceRateClear>
```

```xml
<StandardKey1>string</StandardKey1>
<StandardKey1Clear>boolean</StandardKey1Clear>
<StandardKey2>string</StandardKey2>
<StandardKey2Clear>boolean</StandardKey2Clear>
<StandardKey3>string</StandardKey3>
<StandardKey3Clear>boolean</StandardKey3Clear>
<StandardKey4>string</StandardKey4>
<StandardKey4Clear>boolean</StandardKey4Clear>
<StandardKey5>string</StandardKey5>
<StandardKey5Clear>boolean</StandardKey5Clear>
<StandardKey6>string</StandardKey6>
<StandardKey6Clear>boolean</StandardKey6Clear>
<StandardKeyC>string</StandardKeyC>
<StandardKeyCClear>boolean</StandardKeyCClear>
<Flags1>string</Flags1>
<Flags1Clear>boolean</Flags1Clear>
<Flags2>string</Flags2>
<Flags2Clear>string</Flags2Clear>
<FieldCode>string</FieldCode>
<IntExtdDesc>
  <ARItemExtdDesc>
    <Overall>string</Overall>
    <ItemId>string</ItemId>
    <LineNumber>string</LineNumber>
    <SequenceNum>string</SequenceNum>
    <ExtdDesc1>string</ExtdDesc1>
    <ExtdDesc2>string</ExtdDesc2>
    <ExtdDesc3>string</ExtdDesc3>
    <ExtdDesc4>string</ExtdDesc4>
    <ExtdDesc5>string</ExtdDesc5>
    <LineFeed1>string</LineFeed1>
    <LineFeed2>string</LineFeed2>
    <LineFeed3>string</LineFeed3>
    <LineFeed4>string</LineFeed4>
    <LineFeed5>string</LineFeed5>
  </ARItemExtdDesc>
  <ARItemExtdDesc>
          .
          .
          .
  </ARItemExtdDesc>
</IntExtdDesc>
<ExtExtdDesc>
  <ARItemExtdDesc>
    <Overall>string</Overall>
    <ItemId>string</ItemId>
    <LineNumber>string</LineNumber>
    <SequenceNum>string</SequenceNum>
    <ExtdDesc1>string</ExtdDesc1>
    <ExtdDesc2>string</ExtdDesc2>
    <ExtdDesc3>string</ExtdDesc3>
    <ExtdDesc4>string</ExtdDesc4>
    <ExtdDesc5>string</ExtdDesc5>
    <LineFeed1>string</LineFeed1>
    <LineFeed2>string</LineFeed2>
    <LineFeed3>string</LineFeed3>
```

```
            <LineFeed4>string</LineFeed4>
            <LineFeed5>string</LineFeed5>
         </ARItemExtdDesc>
         <ARItemExtdDesc>
                    .
                    .
                    .
         </ARItemExtdDesc>
       </ExtExtdDesc>
     </itemInput>
   </ARItemModify>
 </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in the *Modify AR Item SOAP Response* section

- Following is a description of the fields in itemInput.

- Note that each field in this section (which is not a required field) has a corresponding
  Clear*xxx* field. This boolean value is used to clear (i.e., set to spaces) the
  corresponding field. If the Clear*xxx* field is "true," the corresponding field is set to
  spaces. If the Clear*xxx* field is "false" and a value is entered in the corresponding
  field, this will replace the existing value for the vendor. If the Clear*xxx* field is "false"
  and the corresponding field is left blank, the existing value for the field is retained for
  the vendor.

  - ☑ **ItemId (Required).** Twenty-four characters, alphanumeric, left justified in field,
    blank filled to right. Contains a unique user-defined item identification.

  - ☑ **IrecDesc (Optional).** Thirty characters, alphanumeric. Internal description of the
    item.

  - ☑ **ItemDesc (Required).** Thirty characters, alphanumeric. User-defined description
    of the item.

  - ☑ **ShortName (Optional).** Ten characters, alphanumeric abbreviated name. If left
    blank, the default will be the first ten positions of the short description for the field
    code.

  - ☑ **MasterId (Optional).** Twenty-four characters. If not blank, should exist in the
    $AR-ITEM table. If the item field code is hierarchal, then it will get the master
    item field code from its $ITM-AR-ARACCT (AR Merge Template).

  - ☑ **ShareFlag (Optional).** One-character share flag. Allowable values are "Y," "N,"
    or blank.

☑ **Authorize (Optional).** One-character authorize flag. Allowable values are "Y," "N," or blank.

☑ **ARAccount (Optional).** Sixty-character Accounts Receivable account for item.

☑ **ARCAccount (Optional).** Sixty-character Accounts Receivable contra account for item.

☑ **GLAccount (Optional).** Sixty-character General Ledger account number.

☑ **GLCAccount (Optional).** Sixty-character General Ledger contra account number.

☑ **UserField1 (Optional).** Ten-character alphanumeric user-defined field.

☑ **UserField2 (Optional).** Ten-character alphanumeric user-defined field.

☑ **GLStat (Optional).** Three-character user-defined General Ledger statistic.

☑ **ProductClass (Optional).** Four-character user-defined product class.

☑ **ConfirmDesc (Optional).** One-character flag to confirm description. Allowable values are "Y," "N," or blank.

☑ **UOM (Optional).** Two-character user-defined unit of measure.

☑ **HowComputed (Optional).** Two-character how to compute. Allowable values are "A" or blank.

☑ **PriceMergeUser (Optional).** One-character flag, item price merge with user. Allowable values are "Y," "N," or blank.

☑ **PriceMergeCust (Optional).** One-character flag, item price merge with customer. Allowable values are "Y," "N," or blank.

☑ **TolerantPerc (Optional).** Seventeen-character numeric value, tolerance override percent. Up to ten positions to left of decimal and six positions to right of decimal. Right justified, blank filled to the left and decimal point must be explicitly entered in record. The sign should be placed at the rightmost position.

☑ **CurrUnitPrice (Optional).** Seventeen-character numeric value, current price.

☑ **CurrPriceDate (Optional).** Eight-character current price date in CCYYMMDD format.

☑ **CurrPriceRate (Optional).** Fourteen-character current price rate. This key must exist in the $AR-RATE table. This key can be used to calculate the unit price (e.g., quantity discounts).

☑ **FuturePrice (Optional).** Seventeen-character numeric value future price. Up to ten positions to left of decimal and six positions to right of decimal. Right justified, blank filled on left and decimal point must be explicitly entered in record. The sign should be placed at the rightmost position.

☑ **FuturePriceDate (Optional).** Eight-character future price date in CCYYMMDD format.

☑ **FuturePriceRate (Optional).** Fourteen-character future price rate. This key must exist in the $AR-RATE table. This key can be used to calculate the unit price (e.g., quantity discounts).

☑ **LastPrice (Optional).** Seventeen character numeric last item price. Up to ten positions to left of decimal and six positions to right of decimal. Right justified, blank filled to the left and decimal point must be explicitly entered in record. The sign should be placed at the rightmost position.

☑ **LastPriceRate (Optional).** Fourteen character last price rate. This key must exist in the $AR-RATE table. This key can be used to calculate the unit price (e.g., quantity discounts).

☑ **StandardKey1 (Optional).** Fourteen-character user-defined standard rate key 1.

☑ **StandardKey2 (Optional).** Fourteen-character user-defined standard rate key 2.

☑ **StandardKey3 (Optional).** Fourteen-character user-defined standard rate key 3.

☑ **StandardKey4 (Optional).** Fourteen-character user-defined standard rate key 4.

☑ **StandardKey5 (Optional).** Fourteen-character user-defined standard rate key 5.

☑ **StandardKey6 (Optional).** Fourteen-character user-defined standard rate key 6.

☑ **StandardKeyC (Optional).** Fourteen-character user-defined standard rate key code.

☑ **Flags1 (Optional).** Twenty-four character item flag which is currently not used.

☑ **Flags2 (Optional).** Twenty-four character item flag which is currently not used.

☑ **FieldCode (Optional).** The field code to be added.

- **IntExtdDesc.** This is an array within ItemInput. There will be one instance of the array for each internal extended description and one instance of the array for each external extended description.

  - ☑ **Overall (Optional)**. This is the overall status of the internal extended descriptions.

  - ☑ **ItemId (Required)**. Twenty-four characters, alphanumeric, left justified in field, blank filled to right. Contains unique user-defined item identification.

  - ☑ **LineNumber (Optional)**. One character, numeric, between 1 and 5. This number will be used to update (increment) the number of the internal description lines on the Item record.

  - ☑ **SequenceNum (Optional)**. Two-character numeric sequence number. First must be 01. Others must have incremented numbers. When the sequence of '01' is encountered, all internal extended descriptions associated with this item will be deleted – before adding this new one.

  - ☑ **ExtdDesc1 (Optional)**. Eighty-character user-defined extended description.

  - ☑ **ExtdDesc2 (Optional)**. Eighty-character user-defined extended description.

  - ☑ **ExtdDesc3 (Optional)**. Eighty-character user-defined extended description.

  - ☑ **ExtdDesc4 (Optional)**. Eighty-character user-defined extended description.

  - ☑ **ExtdDesc5 (Optional)**. Eighty-character user-defined extended description.

  - ☑ **LineFeed1 (Optional)**. One-character flag if there is a line feed.

  - ☑ **LineFeed2 (Optional)**. One-character flag if there is a line feed.

  - ☑ **LineFeed3 (Optional)**. One-character flag if there is a line feed.

  - ☑ **LineFeed4 (Optional)**. One-character flag if there is a line feed.

  - ☑ **LineFeed5 (Optional)**. One-character flag if there is a line feed.

- **ExtExtdDesc.** This is an array within ItemInput. There will be one instance of the array for each internal extended description and one instance of the array for each external extended description.

  - ☑ **Overall (Optional)**. This is the overall status of the external extended descriptions.

☑ **ItemId (Required)**. Twenty-four characters, alphanumeric, left justified in field, blank filled to right. Contains unique user-defined Item Identification.

☑ **LineNumber (Optional)**. One character, numeric, line number between 1 and 5. This number will be used to update (increment) the number of the external description line on the Item record.

☑ **SequenceNum (Optional)**. Two characters, numeric. First must be 01. Others must have incremented numbers. When the sequence of '01' is encountered, all external extended descriptions associated with this item will be deleted – before adding this new one.

☑ **ExtdDesc1 (Optional)**. Eighty-character user-defined extended description.

☑ **ExtdDesc2 (Optional)**. Eighty-character user-defined extended description.

☑ **ExtdDesc3 (Optional)**. Eighty-character user-defined extended description.

☑ **ExtdDesc4 (Optional)**. Eighty-character user-defined extended description.

☑ **ExtdDesc5 (Optional)**. Eighty-character user-defined extended description.

☑ **LineFeed1 (Optional)**. One-character flag if there is a line feed.

☑ **LineFeed2 (Optional)**. One-character flag if there is a line feed.

☑ **LineFeed3 (Optional)**. One-character flag if there is a line feed.

☑ **LineFeed4 (Optional)**. One-character flag if there is a line feed.

☑ **LineFeed5 (Optional)**. One-character flag if there is a line feed.

Modify AR Item SOAP Response

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ARItemModifyResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <ARItemModifyResult>int</ARItemModifyResult>
      <itemStatus>
        <Overall>string</Overall>
        <ItemId>string</ItemId>
        <ShortName>string</ShortName>
        <MasterItem>string</MasterItem>
        <ShareFlag>string</ShareFlag>
        <Authorize>string</Authorize>
        <ARAccount>string</ARAccount>
        <ARCAccount>string</ARCAccount>
        <GLAccount>string</GLAccount>
        <GLCAccount>string</GLCAccount>
        <ProductClass>string</ProductClass>
        <ConfirmDesc>string</ConfirmDesc>
        <Uom>string</Uom>
        <HowComputed>string</HowComputed>
        <PriceMergeUser>string</PriceMergeUser>
        <PriceMergeCust>string</PriceMergeCust>
        <TolerantPerc>string</TolerantPerc>
        <CurrUnitPrice>string</CurrUnitPrice>
        <CurrPriceDate>string</CurrPriceDate>
        <CurrPriceRate>string</CurrPriceRate>
        <FutUnitPrice>string</FutUnitPrice>
        <FutPriceDate>string</FutPriceDate>
        <FutPriceRate>string</FutPriceRate>
        <LastUnitPrice>string</LastUnitPrice>
        <LastPriceRate>string</LastPriceRate>
        <RuleStatus>string</RuleStatus>
        <IntDescStatus>
          <ARItemExtdDescStatus>
            <Overall>string</Overall>
            <LineNum>string</LineNum>
            <ItemId>string</ItemId>
          </ARItemExtdDescStatus>
          <ARItemExtdDescStatus>
            <Overall>string</Overall>
            <LineNum>string</LineNum>
            <ItemId>string</ItemId>
          </ARItemExtdDescStatus>
        </IntDescStatus>
        <ExtDescStatus>
          <ARItemExtdDescStatus>
            <Overall>string</Overall>
            <LineNum>string</LineNum>
            <ItemId>string</ItemId>
```

```
        </ARItemExtdDescStatus>
        <ARItemExtdDescStatus>
          <Overall>string</Overall>
          <LineNum>string</LineNum>
          <ItemId>string</ItemId>
        </ARItemExtdDescStatus>
      </ExtDescStatus>
    </itemStatus>
  </ARItemModifyResponse>
  </soap:Body>
</soap:Envelope>
```

- **ARItemModifyResponse**. This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- The remaining portion details the status for modifying the accounts receivable item. Following is a detailed description of the fields and their values.

  ☑ **Overall.** This is the overall status for modifying the AR item. If the status is "Y," the item was successfully added. An "N" value means the item was not modified due to invalid input. See the following fields for the details of the edit failure.

  ☑ **ItemId.** This is the status for item ID. A "Y" value means the edit was successful. Edit failures are as follows:

    ➢ "N" Edit error.

    ➢ "1" Item does not exist.

  ☑ **ShortName**. This status is for the short name. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  ☑ **MasterItem**. This status is for the master item ID. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  ☑ **ShareFlag**. This status is for the share flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  ☑ **Authorize**. This status is for the authorize flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  ☑ **ARAccount**. This status is for the AR account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

  ☑ **ARCAccount**. This status is for the AR Contra account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **GLAccount.** This status is for the GL account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **GLContraAccount.** This status is for the GL Contra account template. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **ProductClass.** This status is for the product class. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **ConfirmDesc.** This status is for the confirm description flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **Uom.** This status is for the item's unit of measure. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **HowComputed.** This status is for the how computed flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **PriceMergeUser.** This status is for the price merge with user flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **PriceMergeCust.** This status is for the price merge with customer flag. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **TolerantPerc.** This status is for the tolerant percentage override. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **CurrUnitPrice.** This status is for the current unit price. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **CurrPriceDate.** This status is for the current unit price date. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **CurrPriceRate.** This status is for the current unit price rate. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **FutUnitPrice.** This status is for the future unit price. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **FutPriceDate.** This status is for the future price date. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **FutPriceRate.** This status is for the future price rate. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **LastUnitPrice.** This status is for the last unit price. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **LastPriceRate.** This status is for the last unit price rate. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **RuleStatus.** This status is for the rule status. A "Y" value means the edit was successful. An "N" value means the edit failed on the value.

☑ **IntDescStatus.** This is the status for the internal extended descriptions

☑ **ExtDescStatus.** This is the status for the external extended descriptions.

- Following is a description of the status fields in ARItemExtdDescStatus.

☑ **Overall**. This is the overall status for the extended description. A "Y" value indicates no error failures. An "N" value indicates there was an edit failure.

☑ **LineNumber**. This status is for the line number for the extended description. A "Y" value indicates the line number was a valid entry. An "N" indicates that the line number used was invalid.

☑ **ItemId**. This status is for the item ID. A "Y" value indicates that the item was found. An "N" indicates the item was not found.

Funds Check Inquiry

This web service is used to check funds available for a general ledger account number. The funds check takes into account the budgeted, actual, and encumbered amounts for the account number. Depending on configuration, the detail and/or summary funds available are returned.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the FundsCheck web method.

```
          .
          .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
FundsCheckStatus statusRec;
FundsCheckInput inputRec = new FundsCheckInput();

//Fill the inputRec object with information on the account for
availability of funds.
.
.
Result = fms.FundsCheck(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Funds Check Inquiry SOAP Request

```
POST /FMSWebServices/FMSWebServices.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://www.MitchellHumphrey.com/FMSServices/FundsCheck"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <FundsCheck xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
```

```
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <fcInput>
        <Account>string</Account>
        <DataType>string</DataType>
        <MemoStatistic>string</MemoStatistic>
        <Period>string</Period>
        <Year>string</Year>
      </fcInput>
    </FundsCheck>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the elements in the SOAP body. Edits for these fields
are described in the *Funds Check Inquiry SOAP Response* section.

- ☑ **Account (Required)**. The sixty-character detail account number in which to perform funds checking.

- ☑ **DataType (Required)**. Three-character data type for the encumbrance record.

- ☑ **MemoStatistic (Optional)**. If performing an inquiry for memo encumbrances, this is the three-character data type for the memo encumbrance. This field must be left blank (or omitted) if checking funds for the real encumbrance for the account.

- ☑ **Period (Required)**. Two-character right-justified, zero-filled accounting period.

- ☑ **Year (Required)**. Four-character year.

Funds Check Inquiry SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <FundsCheckResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FundsCheckResult>int</FundsCheckResult>
      <fcStatus>
        <Overall>string</Overall>
        <Account>string</Account>
```

```
        <DataType>string</DataType>
        <MemoStatistic>string</MemoStatistic>
        <Period>string</Period>
        <Year>string</Year>
        <Summary>string</Summary>
        <Detail>string</Detail>
        <DetailFundsAvailable>string</DetailFundsAvailable>
        <SummaryFundsAvailable>string</SummaryFundsAvailable>
        <SummaryAccount>string</SummaryAccount>
      </fcStatus>
    </FundsCheckResponse>
  </soap:Body>
</soap:Envelope>
```

☑ **Overall.** This is the overall status for funds check inquiry. A "Y" value means the edits were successful and the inquiry performed. If "N," the remaining edit elements must be checked for edit failure.

☑ **Account.** This status is the account number. A "Y" value means the edit was successful. Edit failures are as follows:

➤ "N" Edit error.

➤ "1" The account contains invalid characters.

☑ **DataType.** This status is the data type. A "Y" value means the edit was successful. Edit failures are as follows:

➤ "N" Invalid data type was entered.

➤ "1" The data type entered was not a financial type.

☑ **MemoStatistic.** This status is the memo encumbrance data type. A "Y" value means the edit was successful. Edit failures are as follows:

➤ "N" Invalid data type was entered.

➤ "1" A financial statistic was entered.

☑ **Period.** This status is the period. A "Y" value means the edit was successful. Edit failures are as follows:

➤ "N" Invalid period was entered.

➤ "R" Period is required (and was left blank) because xxxENCPER const exists.

☑ **Year.** This status is the year. A "Y" value means the edit was successful. Edit failure is as follows:

  ➢ "N" Invalid year was entered.

☑ **Detail.** This is the status for detail funds checking. A "Y" value means the edit was successful. Edit failures are as follows:

  ➢ "U" If overall status is success, this means that detail funds checking was not performed. If overall status is not successful, this means that the summary account contains an edit failure, so detail account may not have been edited.

  ➢ "1" Failure formatting the detail account.

  ➢ "2" Failure pseudo coding/defaulting detail account.

  ➢ "3" Detail account is invalid.

☑ **Summary.** This is the status for summary funds checking. A "Y" value means the edit was successful. Edit failures are as follows:

  ➢ "U" If overall status is success, this means that summary funds checking as not performed. If overall status is not successful, this means that the detail account contains an edit failure, so summary account may not have been used or edited.

  ➢ "1" Summary account is invalid.

  ➢ "2" Failure formatting the summary account.

  ➢ "3" Failure pseudo coding/defaulting summary account.

  ➢ "4" Failure merging the summary account.

☑ **DetailFundsAvailable.** Valid only when the Overall status is "Y" and the Detail status is "Y." This is the amount of funds available for the detail account. Can be a positive or negative value.

☑ **SummaryFundsAvailable.** Valid only when the Overall status is "Y" and the Summary status is "Y." This is the amount of funds available for the summary account. Can be a positive or negative value.

☑ **SummaryAccount.** Valid only when the Overall status is "Y" and the Summary status is "Y."

Batch Inquiry (BatchInquire Web Method)

The batch inquiry web service will allow for checking of the status of an existing batch. The web service will optionally allow deleting the batch if it is in a status that allows it to be deleted. This service will be used in situations where there was a server or network failure while processing a web request to build or post a batch.

Sample Web Method Call from Web Service Consumer

Following is a section of a C# application that consumes the web service and calls the BatchInquire Web Method.

```
            .
            .
FMSWebServices fms = new FMSWebServices();
string FMSUser = "mhandco";
string FMSPassword1 = "mhandco";
string FMSPassword2 = null;
string FMSPassword3 = null;
string Ledger = "FMSGL";
string OSUser = "Jim";
string OSPassword = "JimPassword";
int Result;
BatchInquiryStatus bqStatus;
BatchInquiryInput bqInput = new BatchInquiryInput();

//Fill the bqInput object with batch to inquiry about.
bqInput.BatchType = "PO";
bqInput.BatNumber= 2010;
bqInput.DeleteBatch = "false";
.
.
Result = fms.BatchInquire(FMSUser, FMSPassword1, FMSPassword2,
FMSPassword3, Ledger, OSUser, OSPassword, inputRec, out
statusRec);
```

Batch Inquiry SOAP Request

```
POST /FMSWebServices/FMSWebServices.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://www.MitchellHumphrey.com/FMSServices/BatchInquire"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <BatchInquire xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <bqInput>
        <BatchType>string</BatchType>
        <BatchNumber>int</BatchNumber>
        <DeleteBatch>boolean</DeleteBatch>
      </bqInput>
    </BatchInquire>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the fields in the bqInput.

☑ **BatchType (Required).** The batch type of the batch to inquire about. Must be a valid batch type for the ledger which the batch inquiry request is being processed.

☑ **BatchNumber (Required).** The batch number for the batch to inquire about. This number in combination with the batch type must specify an existing batch.

☑ **DeleteBatch (Required).** If "true" and the batch is in a status that can be deleted, the batch will be deleted. If "false," do not delete the batch; just send status information for the batch.

Batch Inquiry SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <BatchInquireResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <BatchInquireResult>int</BatchInquireResult>
      <bqStatus>
        <Overall>string</Overall>
        <BatchType>string</BatchType>
        <Status>string</Status>
        <Deleted>string</Deleted>
        <DocumentCount>int</DocumentCount>
        <TransactionCount>int</TransactionCount>
      </bqStatus>
    </BatchInquireResponse>
  </soap:Body>
</soap:Envelope>
```

- **BatchInquireResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

- Following are detailed descriptions of the fields and their values.

  - ☑ **Overall.** Overall validity. "Y" if all batch inquiries process requests are successful. If "N," see the detail status flags for edit failure.

  - ☑ **BatchType.** This is the status of the batch type field. An "N" value means that the batch type does not exist. A "Y" value means that the batch type is valid.

  - ☑ **Status.** This is the batch status. Following are the values for the Status element. Note that if the batch was deleted, this is the status of the batch before it was deleted.

    - ➢ "N" – The batch does not exist.

    - ➢ "B" – The batch exists and is busy.

    - ➢ "V" – The batch exists and is valid.

- ➢ "R" – The batch exists and is in "Released" status.

- ➢ "D" – The batch exists and is in "Purged" status.

- ➢ "I" – The batch exists and is invalid.

- ➢ "S" – The batch exists and has been submitted for posting.

- ➢ "P" – The batch exists and is posted.

- ➢ "W" – The batch exists and is participating in workflow approvals.

- ☑ **Deleted.** This is the deleted status. This element is only relevant if the batch was requested to be deleted and the batch exists. Following are the values for the Deleted element.

  - ➢ "Y" – The batch was deleted.

  - ➢ "N" – The batch was requested to be deleted, but was not deleted due to the batch status or edit failure.

- ☑ **DocumentCount.** If the batch exists, this is the number of documents in the batch.

- ☑ **TransactionCount.** If the batch exists, this is the number of transactions in the batch.

CUSTOMER EXTERNAL INTERFACE

The Customer Interface web service is designed to allow maintaining customers in an external system that are associated with FMSAR customers in FMS. There is a table in FMS, $AR-CUST-EXT-INT, that is used as a staging table for interfacing $AR-CUST records to an external system. This table is usually populated by triggers in FMS when data in the customer table changes.

Records in the $AR-CUST-EXT-INT interface table are identified by an Application Type ($AREI-APPLIC-TYPE element) that is used to identify the external system that the entries are associated. Examples of an Application Type would be MHFTG (FastTrackGov®) or MHCTG (CashTrackGov).

There are web methods for the customer external interface that perform the following:

- Retrieve all the keys for records in the external interface for a given Application Type.

- Retrieve all data for a customer for a given Application Type and Customer Index.

- Delete an $AR-CUST-EXT-INT table entry for a given Application Type and Customer Index.

- Place an $AR-CST-EXT-INT table entry in an error state for a given Application Type and Customer Index.

Retrieve Keys SOAP Request

```
POST /fmswebservices20/fmswebservices.asmx HTTP/1.1
Host: twenger2
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction:
"http://www.MitchellHumphrey.com/FMSServices/CustomerExternalInterfaceRetriev
eKeys"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceRetrieveKeys
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
```

```
        <OSUser>string</OSUser>
        <OSPassword>string</OSPassword>
        <ApplicationType>string</ApplicationType>
      </CustomerExternalInterfaceRetrieveKeys>
   </soap:Body>
</soap:Envelope>
```

Following is a description of the field:

☑ **ApplicationType (Required).** The Application Type associated with the records being interfaced.

Retrieve Keys SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceRetrieveKeysResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<CustomerExternalInterfaceRetrieveKeysResult>int</CustomerExternalInterfaceRe
trieveKeysResult>
      <CustomerKeys>
        <string>string</string>
        <string>string</string>
      </CustomerKeys>
    </CustomerExternalInterfaceRetrieveKeysResponse>
  </soap:Body>
</soap:Envelope>
```

• **CustomerExternalInterfaceRetrieveKeysResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following is a detailed description of the field and its values.

☑ **CustomerKeys.** Array of six-character key values for records in the $AR-CUST-EXT-INT table.

Retrieve Customer Record SOAP Request

```
POST /fmswebservices20/fmswebservices.asmx HTTP/1.1
Host: twenger2
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction:
"http://www.MitchellHumphrey.com/FMSServices/CustomerExternalInterfaceGetReco
rd"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceGetRecord
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <InterfaceInformation>
        <CustomerIndex>string</CustomerIndex>
        <Application>string</Application>
      </InterfaceInformation>
    </CustomerExternalInterfaceGetRecord>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the fields:

- ☑ **Customer (Required).** The six-character key value associated with the $AR-CUST-EXT-INT record being retrieved.

- ☑ **ApplicationType (Required).** The application type associated with the customer interface record being retrieved.

Retrieve Customer Record SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceGetRecordResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<CustomerExternalInterfaceGetRecordResult>int</CustomerExternalInterfaceGetRe
cordResult>
      <CustomerInformation>
        <CustomerId>string</CustomerId>
        <User>string</User>
        <Index>string</Index>
        <Master>string</Master>
        <MasterId>string</MasterId>
        <Name>string</Name>
        <ShortName>string</ShortName>
        <CustomerType>string</CustomerType>
        <MinorityCode>string</MinorityCode>
        <GLAccount>string</GLAccount>
        <GLContraAccount>string</GLContraAccount>
        <ARAccount>string</ARAccount>
        <ARContraAccount>string</ARContraAccount>
        <FederalID>string</FederalID>
        <PrimaryProd>string</PrimaryProd>
        <SIC>string</SIC>
        <Status>string</Status>
        <Territory>string</Territory>
        <TerritoryDesc>string</TerritoryDesc>
        <Vendor>string</Vendor>
        <Address1>string</Address1>
        <Address2>string</Address2>
        <Address3>string</Address3>
        <Address4>string</Address4>
        <City>string</City>
        <State>string</State>
        <Country>string</Country>
        <Zip>string</Zip>
        <Active>string</Active>
        <ActiveUpdMaster>string</ActiveUpdMaster>
        <Actual>string</Actual>
        <AgeClass>string</AgeClass>
        <CalcRateKey>string</CalcRateKey>
        <PriceRateKey>string</PriceRateKey>
        <ContKey>string</ContKey>
        <UserField1>string</UserField1>
```

```
<UserField2>string</UserField2>
<BaseDateCode>string</BaseDateCode>
<ContactName>string</ContactName>
<ContactPhone1>string</ContactPhone1>
<ContactPhone2>string</ContactPhone2>
<ContactTelex>string</ContactTelex>
<BillName>string</BillName>
<BillAddress1>string</BillAddress1>
<BillAddress2>string</BillAddress2>
<BillAddress3>string</BillAddress3>
<BillAddress4>string</BillAddress4>
<BillCity>string</BillCity>
<BillState>string</BillState>
<BillCountry>string</BillCountry>
<BillZip>string</BillZip>
<BillFormat>string</BillFormat>
<BillCycle>string</BillCycle>
<CreditBalanceWO>string</CreditBalanceWO>
<CreditLimit>string</CreditLimit>
<CreditRating>string</CreditRating>
<CurrencyCode>string</CurrencyCode>
<CurrDaysPeriod>string</CurrDaysPeriod>
<CurrTotalPayment>string</CurrTotalPayment>
<LastCreditReviewDate>string</LastCreditReviewDate>
<NextCreditReviewDate>string</NextCreditReviewDate>
<DocDefaultStatus>string</DocDefaultStatus>
<GraceDays>string</GraceDays>
<MinBalanceWO>string</MinBalanceWO>
<MinHistBalance>string</MinHistBalance>
<NextAgeDate>string</NextAgeDate>
<Override>string</Override>
<PerformAging>string</PerformAging>
<ApplyToSubs>string</ApplyToSubs>
<PrintBill>string</PrintBill>
<PrintStatement>string</PrintStatement>
<RemitTo>string</RemitTo>
<CreditRep>string</CreditRep>
<SalesRep>string</SalesRep>
<SalesRepAlt>string</SalesRepAlt>
<SendAdjMemo>string</SendAdjMemo>
<Share>string</Share>
<ShipName>string</ShipName>
<ShipAddress1>string</ShipAddress1>
<ShipAddress2>string</ShipAddress2>
<ShipAddress3>string</ShipAddress3>
<ShipAddress4>string</ShipAddress4>
<ShipState>string</ShipState>
<ShipCountry>string</ShipCountry>
<ShipZip>string</ShipZip>
<ShipClass>string</ShipClass>
<ShipMethod>string</ShipMethod>
<SortCode>string</SortCode>
<StatementCycle>string</StatementCycle>
<StatementType>string</StatementType>
<TermsRateKey>string</TermsRateKey>
<UpdDocHist>string</UpdDocHist>
```

```xml
<UpdDocHistMaster>string</UpdDocHistMaster>
<VendorId>string</VendorId>
<Internet>string</Internet>
<MiscTran>string</MiscTran>
<Flag1>string</Flag1>
<Flag2>string</Flag2>
<Send>string</Send>
<ElectAddr>string</ElectAddr>
<AgeClass1>string</AgeClass1>
<AgeAmount1>string</AgeAmount1>
<AgeCount1>string</AgeCount1>
<AgeClass2>string</AgeClass2>
<AgeAmount2>string</AgeAmount2>
<AgeCount2>string</AgeCount2>
<AgeClass3>string</AgeClass3>
<AgeAmount3>string</AgeAmount3>
<AgeCount3>string</AgeCount3>
<AgeClass4>string</AgeClass4>
<AgeAmount4>string</AgeAmount4>
<AgeCount4>string</AgeCount4>
<AgeClass5>string</AgeClass5>
<AgeAmount5>string</AgeAmount5>
<AgeCount5>string</AgeCount5>
<AgeClass6>string</AgeClass6>
<AgeAmount6>string</AgeAmount6>
<AgeCount6>string</AgeCount6>
<AgeClass7>string</AgeClass7>
<AgeAmount7>string</AgeAmount7>
<AgeCount7>string</AgeCount7>
<AgeClass8>string</AgeClass8>
<AgeAmount8>string</AgeAmount8>
<AgeCount8>string</AgeCount8>
<AgeClass9>string</AgeClass9>
<AgeAmount9>string</AgeAmount9>
<AgeCount9>string</AgeCount9>
<AgeClass10>string</AgeClass10>
<AgeAmount10>string</AgeAmount10>
<AgeCount10>string</AgeCount10>
<AccountType>string</AccountType>
<UpdateType>string</UpdateType>
<PaymentMethod>string</PaymentMethod>
<PaymentMethodOverride>string</PaymentMethodOverride>
<Text1>string</Text1>
<Text2>string</Text2>
<Text3>string</Text3>
<Text4>string</Text4>
<Text5>string</Text5>
<Text6>string</Text6>
<Bit1>string</Bit1>
<Bit2>string</Bit2>
<Bit3>string</Bit3>
<Bit4>string</Bit4>
<Date1>string</Date1>
<Date2>string</Date2>
<Date3>string</Date3>
<Date4>string</Date4>
```

```
            <Integer1>string</Integer1>
            <Integer2>string</Integer2>
            <Integer3>string</Integer3>
            <Integer4>string</Integer4>
            <Money1>string</Money1>
            <Money2>string</Money2>
            <Money3>string</Money3>
            <Money4>string</Money4>
            <Decimal1>string</Decimal1>
            <Decimal2>string</Decimal2>
            <Decimal3>string</Decimal3>
            <Decimal4>string</Decimal4>
            <UpdateDate>string</UpdateDate>
            <UpdateTime>string</UpdateTime>
        </CustomerInformation>
      </CustomerExternalInterfaceGetRecordResponse>
    </soap:Body>
</soap:Envelope>
```

- **CustomerExternalInterfaceGetRecordResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following are detailed descriptions of the fields and their values.

- ☑ **CustomerId.** The value from the $CST-AB-CUST-ID field in the $AR-CUST table.

- ☑ **User.** The value from the $CST-AB-USER field in the $AR-CUST table.

- ☑ **Index.** The value from the $CST-CUSTCTRL field in the $AR-CUST table.

- ☑ **Master.** The value from the $CST-AB-MASTER-CUST field in the $AR-CUST table.

- ☑ **MasterId.** The Master Customer Id.

- ☑ **Name.** The value from the $CST-AA-NAME field in the $AR-CUST table.

- ☑ **ShortName.** The value from the $CST-AA-SHORT-NAME field in the $AR-CUST table.

- ☑ **CustomerType.** The value from the $CST-AB-CUST-TYPE field in the $AR-CUST table.

- ☑ **MinorityCode.** The value from the $CST-AB-MINORITY field in the $AR-CUST table.

☑ **GLAccount.** The value from the $CST-AR-GLACCT field in the $AR-CUST table.

☑ **GLContraAccount.** The value from the $CST-AR-GLCACCT field in the $AR-CUST table.

☑ **ARAccount.** The value from the $CST-AR-CUST-ID field in the $AR-CUST table.

☑ **ARContraAccount.** The value from the $CST-AR-ARCACCT field in the $AR-CUST table.

☑ **FederalID.** The value from the $CST-AB-FEDERAL-ID field in the $AR-CUST table.

☑ **PrimaryProd.** The value from the $CST-AB-PRIMPROD field in the $AR-CUST table.

☑ **SIC.** The value from the $CST-AB-SIC-CODE field in the $AR-CUST table.

☑ **Status.** The value from the $CST-AB-STATUS field in the $AR-CUST table.

☑ **Territory.** The value from the $CST-AB-TERRITORY field in the $AR-CUST table.

☑ **TerritoryDesc.** The territory description from the $AR-TERR table.

☑ **Vendor.** The value from the $CST-AB-VENDOR field in the $AR-CUST table.

☑ **Address1.** The value from the $CST-AD-ADDRESS1 field in the $AR-CUST table.

☑ **Address2.** The value from the $CST-AD-ADDRESS2 field in the $AR-CUST table.

☑ **Address3.** The value from the $CST-AD-ADDRESS3 field in the $AR-CUST table.

☑ **Address4.** The value from the $CST-AD-ADDRESS4 field in the $AR-CUST table.

☑ **City.** The value from the $CST-AD-CITY field in the $AR-CUST table.

☑ **State.** The value from the $CST-AD-STATE field in the $AR-CUST table.

☑ **Country.** The value from the $CST-AD-COUNTRY field in the $AR-CUST table.

☑ **Zip.** The value from the $CST-AD-POSTAL-CD field in the $AR-CUST table.

☑ **Active.** The value from the $CST-AR-ACTIVE field in the $AR-CUST table.

☑ **ActiveUpdMaster.** The value from the $CST-AR-ACTIVE-UP-MC field in the $AR-CUST table.

☑ **Actual.** The value from the $CST-AR-ACTUAL field in the $AR-CUST table.

☑ **AgeClass.** The value from the $CST-AR-AGE-CLASS field in the $AR-CUST table.

☑ **CalcRateKey.** The value from the $CST-AR-SKEY-CALCRT field in the $AR-CUST table.

☑ **CustomerId.** The value from the $CST-AB-CUST-ID field in the $AR-CUST table.

Delete Interface Record SOAP Request

```
POST /fmswebservices20/fmswebservices.asmx HTTP/1.1
Host: twenger2
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction:
"http://www.MitchellHumphrey.com/FMSServices/CustomerExternalInterfaceDeleteR
ecord"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceDeleteRecord
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <InterfaceInformation>
        <CustomerIndex>string</CustomerIndex>
        <Application>string</Application>
        <UpdateDate>string</UpdateDate>
        <UpdateTime>string</UpdateTime>
```

```
      </InterfaceInformation>
    </CustomerExternalInterfaceDeleteRecord>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the fields in the bqInput.

- ☑ **ApplicationType (Required).** The application type associated with the customer interface records.

- ☑ **BatchNumber (Required).** The batch number for the batch to inquire about. This number in combination with the batch type must specify an existing batch.

- ☑ **DeleteBatch (Required).** If "true" and the batch is in a status that can be deleted, the batch will be deleted. If "false," do not delete the batch; just send status information for the batch.

Delete Customer Record SOAP Response

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceDeleteRecordResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<CustomerExternalInterfaceDeleteRecordResult>int</CustomerExternalInterfaceDe
leteRecordResult>
      <DeleteStatus>
        <Deleted>string</Deleted>
      </DeleteStatus>
    </CustomerExternalInterfaceDeleteRecordResponse>
  </soap:Body>
</soap:Envelope>
```

- **CustomerExternalInterfaceRetrieveKeysResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following are detailed descriptions of the fields and their values.

- ☑ **CustomerKeys.** Array of six-character key values for records in the $AR-CUST-EXT-INT table.

Set Record in Error SOAP Request

```
POST /fmswebservices20/fmswebservices.asmx HTTP/1.1
Host: twenger2
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction:
"http://www.MitchellHumphrey.com/FMSServices/CustomerExternalInterfaceSetErro
r"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceSetError
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <InterfaceInformation>
        <CustomerIndex>string</CustomerIndex>
        <Application>string</Application>
        <ErrorDescription>string</ErrorDescription>
        <UpdateDate>string</UpdateDate>
        <UpdateTime>string</UpdateTime>
      </InterfaceInformation>
    </CustomerExternalInterfaceSetError>
  </soap:Body>
</soap:Envelope>
```

Following is a description of the fields in the bqInput.

- ☑ **ApplicationType (Required).** The application type associated with the customer interface records.

- ☑ **BatchNumber (Required).** The batch number for the batch to inquire about. This number in combination with the batch type must specify an existing batch.

- ☑ **DeleteBatch (Required).** If "true" and the batch is in a status that can be deleted, the batch will be deleted. If "false," do not delete the batch; just send status information for the batch.

Set Record In Error SOAP Response

```
HTTP/1.1 200 OK
```

```
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CustomerExternalInterfaceSetErrorResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<CustomerExternalInterfaceSetErrorResult>int</CustomerExternalInterfaceSetErr
orResult>
      <ErrorStatus>
        <Updated>string</Updated>
      </ErrorStatus>
    </CustomerExternalInterfaceSetErrorResponse>
  </soap:Body>
</soap:Envelope>
```

- **CustomerExternalInterfaceRetrieveKeysResult.** This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following is a descriptions of the field and its value.

☑ **CustomerKeys.** Array of six-character key values for records in the $AR-CUST-EXT-INT table.

DOCUMENT EXTERNAL INTERFACE

The Document External Interface web service is used for synchronizing Document Records in FMS with information in an external system. There are interface tables in FMS, $EI-DOC-EXT-INT and $EI-DOC-EXT-INT2, that are used as staging tables for interfacing Document Records to an external system. This table is usually populated by triggers in FMS when AR, PO, or AP documents are added or updated.

There are web methods for the document external interface that perform the following:

- Retrieve all the keys for records in the external interface for a given Application Type.

- Retrieve all data for a document for a given Document Record Key.

- Delete records in the $EI-DOC-EXT-INT and $EI-DOC-EXT-INT2 tables entry for a given Document Record Key.

- Place an $EI-DOC-EXT-INT (and $EI-DOC-EXT-INT2) table entry in an error state for a given Document Record Key.

Retrieve Keys SOAP Request

```
POST /fmswebservices/fmswebservices.asmx HTTP/1.1
Host: terry-pc
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceRetrieveKeys
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <ApplicationType>string</ApplicationType>
    </DocumentExternalInterfaceRetrieveKeys>
  </soap12:Body>
</soap12:Envelope>
```

Following is a description of the field:

☑ **ApplicationType (Required).** The Application Type associated with the records being interfaced.

Retrieve Keys SOAP Response

```
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceRetrieveKeysResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<DocumentExternalInterfaceRetrieveKeysResult>int</DocumentExternalInterfaceRe
trieveKeysResult>
      <DocInterfaceKeys>
        <int>int</int>
        <int>int</int>
      </DocInterfaceKeys>
    </DocumentExternalInterfaceRetrieveKeysResponse>
  </soap12:Body>
</soap12:Envelope>
```

- **DocumentExternalInterfaceRetrieveKeysResult**. This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following is a description of the field.

☑ **DocInterfaceKeys.** Array of integer key values (Document Record Keys) for records in the $EI-DOC-EXT-INT tables. These are the keys to the records that match the Application Type supplied in the request message.

Retrieve Record SOAP Request

```
POST /fmswebservices/fmswebservices.asmx HTTP/1.1
Host: terry-pc
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceGetRecord
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <KeyInformation>
        <Key>int</Key>
      </KeyInformation>
    </DocumentExternalInterfaceGetRecord>
  </soap12:Body>
</soap12:Envelope>
```

Following is a description of the field:

☑ **Key (Required)**. The integer key value associated with the Document Interface record being retrieved.

Retrieve Record SOAP Response

```
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceGetRecordResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<DocumentExternalInterfaceGetRecordResult>int</DocumentExternalInterfaceGetRe
cordResult>
      <DocInterfaceInformation>
        <UpdateType>string</UpdateType>
        <AccountIndex>string</AccountIndex>
        <AgingClass>string</AgingClass>
        <ApplicationExpireDt>string</ApplicationExpireDt>
        <ApplicationQuestionEndDt>string</ApplicationQuestionEndDt>
        <ApplicationDt>string</ApplicationDt>
        <ApprovedUser>string</ApprovedUser>
        <ApprovedDt>string</ApprovedDt>
        <Approved>string</Approved>
        <BusinessName>string</BusinessName>
        <BusinessType>string</BusinessType>
        <ComputedAmount1>string</ComputedAmount1>
        <ComputedAmount2>string</ComputedAmount2>
        <ComputedAmount3>string</ComputedAmount3>
        <ComputedAmount4>string</ComputedAmount4>
        <ComputedAmount5>string</ComputedAmount5>
        <ComputedAmount6>string</ComputedAmount6>
        <DocumentSubtype>string</DocumentSubtype>
        <DocumentId>string</DocumentId>
        <DocumentIndex>string</DocumentIndex>
        <DocumentType>string</DocumentType>
        <InterfaceApplication>string</InterfaceApplication>
        <LicenseNumber>string</LicenseNumber>
        <MasterDoc>string</MasterDoc>
        <PeriodQuestionStartDt>string</PeriodQuestionStartDt>
        <ReferenceDoc>string</ReferenceDoc>
        <RenewalMaster>string</RenewalMaster>
        <DueDt>string</DueDt>
        <EffectiveDt>string</EffectiveDt>
        <ExpireDt>string</ExpireDt>
        <ExpireNoticeDt>string</ExpireNoticeDt>
        <IsRenewal>string</IsRenewal>
        <Issued>string</Issued>
        <IssuedDt>string</IssuedDt>
        <DocStatus>string</DocStatus>
        <PaymentMethod>string</PaymentMethod>
        <PaymentMethodOverride>string</PaymentMethodOverride>
```

```xml
<PreferredContactMethod>string</PreferredContactMethod>
<RecurringDoc>string</RecurringDoc>
<RenewalDt>string</RenewalDt>
<Address11>string</Address11>
<Address12>string</Address12>
<Address13>string</Address13>
<AddressName1>string</AddressName1>
<AddressNumber1>string</AddressNumber1>
<AddressType1>string</AddressType1>
<City1>string</City1>
<State1>string</State1>
<PostalCode1>string</PostalCode1>
<POBox1>string</POBox1>
<Country1>string</Country1>
<County1>string</County1>
<Fax1>string</Fax1>
<Email1>string</Email1>
<ContactMethod1>string</ContactMethod1>
<Phone11>string</Phone11>
<Phone12>string</Phone12>
<Phone13>string</Phone13>
<UPSZone1>string</UPSZone1>
<ShipMethod1>string</ShipMethod1>
<Lattitude1>string</Lattitude1>
<Longitude1>string</Longitude1>
<Address21>string</Address21>
<Address22>string</Address22>
<Address23>string</Address23>
<AddressName2>string</AddressName2>
<AddressNumber2>string</AddressNumber2>
<AddressType2>string</AddressType2>
<City2>string</City2>
<State2>string</State2>
<PostalCode2>string</PostalCode2>
<POBox2>string</POBox2>
<Country2>string</Country2>
<County2>string</County2>
<Fax2>string</Fax2>
<Email2>string</Email2>
<ContactMethod2>string</ContactMethod2>
<Phone21>string</Phone21>
<Phone22>string</Phone22>
<Phone23>string</Phone23>
<UPSZone2>string</UPSZone2>
<ShipMethod2>string</ShipMethod2>
<Lattitude2>string</Lattitude2>
<Longitude2>string</Longitude2>
<Address31>string</Address31>
<Address32>string</Address32>
<Address33>string</Address33>
<AddressName3>string</AddressName3>
<AddressNumber3>string</AddressNumber3>
<AddressType3>string</AddressType3>
<City3>string</City3>
<State3>string</State3>
<PostalCode3>string</PostalCode3>
```

```xml
<POBox3>string</POBox3>
<Country3>string</Country3>
<County3>string</County3>
<Fax3>string</Fax3>
<Email3>string</Email3>
<ContactMethod3>string</ContactMethod3>
<Phone31>string</Phone31>
<Phone32>string</Phone32>
<Phone33>string</Phone33>
<UPSZone3>string</UPSZone3>
<ShipMethod3>string</ShipMethod3>
<Lattitude3>string</Lattitude3>
<Longitude3>string</Longitude3>
<Address41>string</Address41>
<Address42>string</Address42>
<Address43>string</Address43>
<AddressName4>string</AddressName4>
<AddressNumber4>string</AddressNumber4>
<AddressType4>string</AddressType4>
<City4>string</City4>
<State4>string</State4>
<PostalCode4>string</PostalCode4>
<POBox4>string</POBox4>
<Country4>string</Country4>
<County4>string</County4>
<Fax4>string</Fax4>
<Email4>string</Email4>
<ContactMethod4>string</ContactMethod4>
<Phone41>string</Phone41>
<Phone42>string</Phone42>
<Phone43>string</Phone43>
<ShipMethod4>string</ShipMethod4>
<UPSZone4>string</UPSZone4>
<Lattitude4>string</Lattitude4>
<Longitude4>string</Longitude4>
<Text1>string</Text1>
<Text2>string</Text2>
<Text3>string</Text3>
<Text4>string</Text4>
<Text5>string</Text5>
<Text6>string</Text6>
<Bit1>string</Bit1>
<Bit2>string</Bit2>
<Bit3>string</Bit3>
<Bit4>string</Bit4>
<Date1>string</Date1>
<Date2>string</Date2>
<Date3>string</Date3>
<Date4>string</Date4>
<Integer1>string</Integer1>
<Integer2>string</Integer2>
<Integer3>string</Integer3>
<Integer4>string</Integer4>
<Money1>string</Money1>
<Money2>string</Money2>
<Money3>string</Money3>
```

```
        <Money4>string</Money4>
        <Decimal1>string</Decimal1>
        <Decimal2>string</Decimal2>
        <Decimal3>string</Decimal3>
        <Decimal4>string</Decimal4>
        <UpdateDate>string</UpdateDate>
        <UpdateTime>string</UpdateTime>
      </DocInterfaceInformation>
    </DocumentExternalInterfaceGetRecordResponse>
  </soap12:Body>
</soap12:Envelope>
```

- **DocumentExternalInterfaceGetRecordResult**. This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following is the mapping of the fields from the response message to the columns in the $EI-DOC-EXT-INT table.

Column Name	FMS Element Name	Type
UpdateType	$EI-UPDATE-TYPE	CHAR(1)
InterfaceApplication	$EI-INTERF-APPL	CHAR(30)
DocumentIndex	$EI-DOCUMENT-INDEX	CHAR(24)
DocumentId	$EI-DOCUMENT-ID	CHAR(24)
AccountIndex	$EI-ACCOUNT-INDEX	Char(24)
MasterDoc	$EI-MASTER-DOC	Char(24)
RenewalMaster	$EI-RENEWAL-MASTER	Char(24)
ReferenceDoc	$EI-REFERENCE-DOC	Char(24)
DocumentType	$EI-DOCUMENT-TYPE	Char(20)

Column Name	FMS Element Name	Type
DocumentSubtype	$EI-DOC-SUBTYPE	Char(20)
PeriodQuestionStartDt	$EI-PERIOD-QST-DT	char(8)
LicenseNumber	$EI-LICENSE-NUM	char(30)
AgingClass	$EI-AGING-CLASS	char(4)
ApplicationDt	$EI-APPLICATION-DT	char(8)
ApplicationExpireDt	$EI-APP-EXPIRE-DT	char(8)
ApplicationQuestionEndDt	$EI-APP-QUEST-END-DT	char(8)
ApprovedDt	$EI-APPROVAL-DT	char(8)
Approved	$EI-APPROVED	char(1)
ApprovedUser	$EI-APPR-USER	char(24)
BusinessName	$EI-BUSINESS-NM	char(50)
BusinessType	$EI-BUSINESS-TYPE	char(20)
ComputedAmount1	$EI-COMPUTED-AMT1	Decimal(15,2)
ComputedAmount2	$EI-COMPUTED-AMT2	Decimal(15,2)
ComputedAmount3	$EI-COMPUTED-AMT3	Decimal(15,2)
ComputedAmount4	$EI-COMPUTED-AMT4	Decimal(15,2)
ComputedAmount5	$EI-COMPUTED-AMT5	Decimal(15,2)

Column Name	FMS Element Name	Type
ComputedAmount6	$EI-COMPUTED-AMT6	Decimal(15,2)
DueDt	$EI-DUE-DT	char(8)
EffectiveDt	$EI-EFFECTIVE-DT	char(8)
ExpireDt	$EI-EXPIRE-DT	char(8)
ExpireNoticeDt	$EI-EXP-NOTICE-DT	char(8)
IsRenewal	$EI-IS-RENEWAL	char(1)
Issued	$EI-ISSUED	char(1)
IssuedDt	$EI-ISSUED-DT	char(8)
DocStatus	$EI-DOC-STATUS	char(2)
PaymentMethod	$EI-PAYMENT-METH	char(20)
PaymentMethodOverride	$EI-PAYMETHOD-OVRD	Char(1)
PreferredContactMethod	$EI-PRF-CONTACT-METH	char(20)
RecurringDoc	$EI-RECURRING-DOC	char(1)
RenewalDt	$EI-RENEWAL-DT	char(8)
Address11	$EI-ADDRESS-11	char(30)
Address12	$EI-ADDRESS-12	char(30)
Address13	$EI-ADDRESS-13	char(30)

Column Name	FMS Element Name	Type
Address21	$EI-ADDRESS-21	char(30)
Address22	$EI-ADDRESS-22	char(30)
Address23	$EI-ADDRESS-23	char(30)
Address31	$EI-ADDRESS-31	char(30)
Address32	$EI-ADDRESS-32	char(30)
Address33	$EI-ADDRESS-33	char(30)
Address41	$EI-ADDRESS-41	char(30)
Address42	$EI-ADDRESS-42	char(30)
Address43	$EI-ADDRESS-43	char(30)
AddressName1	$EI-ADDRESS-NAME1	char(70)
AddressName2	$EI-ADDRESS-NAME2	char(70)
AddressName3	$EI-ADDRESS-NAME3	char(70)
AddressName4	$EI-ADDRESS-NAME4	char(70)
AddressNumber1	$EI-ADDRESS-NO1	int
AddressNumber2	$EI-ADDRESS-NO2	int
AddressNumber3	$EI-ADDRESS-NO3	int
AddressNumber4	$EI-ADDRESS-NO4	int

Column Name	FMS Element Name	Type
AddressType1	$EI-ADDRESS-TYPE1	char(20)
AddressType2	$EI-ADDRESS-TYPE2	char(20)
AddressType3	$EI-ADDRESS-TYPE3	char(20)
AddressType4	$EI-ADDRESS-TYPE4	char(20)
City1	$EI-CITY1	char(30)
City2	$EI-CITY2	char(30)
City3	$EI-CITY3	char(30)
City4	$EI-CITY4	char(30)
State1	$EI-STATE-1	char(2)
State2	$EI-STATE-2	char(2)
State3	$EI-STATE-3	char(2)
State4	$EI-STATE-4	char(2)
PostalCode1	$EI-POSTAL-CD1	char(10)
PostalCode2	$EI-POSTAL-CD2	char(10)
PostalCode3	$EI-POSTAL-CD3	char(10)
PostalCode4	$EI-POSTAL-CD4	char(10)
POBox1	$EI-PO-BOX1	char(10)

Column Name	FMS Element Name	Type
POBox2	$EI-PO-BOX2	char(10)
POBox3	$EI-PO-BOX3	char(10)
POBox4	$EI-PO-BOX4	char(10)
Country1	$EI-COUNTRY1	char(4)
Country2	$EI-COUNTRY2	char(4)
Country3	$EI-COUNTRY3	char(4)
Country4	$EI-COUNTRY4	char(4)
County1	$EI-COUNTY1	char(4)
County2	$EI-COUNTY2	char(4)
County3	$EI-COUNTY3	char(4)
County4	$EI-COUNTY4	char(4)
Fax1	$EI-FAX1	char(20)
Fax2	$EI-FAX2	char(20)
Fax3	$EI-FAX3	char(20)
Fax4	$EI-FAX4	char(20)
Email1	$EI-EMAIL1	char(128)
Email2	$EI-EMAIL2	char(128)

Column Name	FMS Element Name	Type
Email3	$EI-EMAIL3	char(128)
Email4	$EI-EMAIL4	char(128)
ContactMethod1	$EI-CONTACT-METH1	char(20)
ContactMethod2	$EI-CONTACT-METH2	char(20)
ContactMethod2	$EI-CONTACT-METH3	char(20)
ContactMethod3	$EI-CONTACT-METH4	char(20)
Phone11	$EI-PHONE1	char(20)
Phone12	$EI-PHONE12	char(20)
Phone13	$EI-PHONE13	char(20)
Phone21	$EI-PHONE21	char(20)
Phone22	$EI-PHONE22	char(20)
Phone23	$EI-PHONE23	char(20)
Phone31	$EI-PHONE31	char(20)
Phone32	$EI-PHONE32	char(20)
Phone33	$EI-PHONE33	char(20)
Phone41	$EI-PHONE41	char(20)
Phone42	$EI-PHONE42	char(20)

Column Name	FMS Element Name	Type
Phone43	$EI-PHONE43	char(20)
ShipMethod1	$EI-SHIP-METH1	char(10)
ShipMethod2	$EI-SHIP-METH2	char(10)
ShipMethod3	$EI-SHIP-METH3	char(10)
ShipMethod4	$EI-SHIP-METH4	char(10)
UPSZone1	$EI-UPSZONE1	char(10)
UPSZone2	$EI-UPSZONE2	char(10)
UPSZone3	$EI-UPSZONE3	char(10)
UPSZone4	$EI-UPSZONE4	char(10)
Lattitude1	$EI-LONGITUDE1	Decimal(15.6)
Lattitude2	$EI-LONGITUDE2	Decimal(15.6)
Lattitude3	$EI-LONGITUDE3	Decimal(15.6)
Lattitude4	$EI-LONGITUDE4	Decimal(15.6)
Longitude1	$EI-LATTITUDE1	Decimal(15.6)
Longitude2	$EI-LATTITUDE2	Decimal(15.6)
Longitude3	$EI-LATTITUDE3	Decimal(15.6)
Longitude4	$EI-LATTITUDE4	Decimal(15.6)

Following is the mapping from table $EI-DOCUMENT-EXT-INT.

Column Name	FMS Element Name	Type
Text1	$EI-TEXT-FIELD-1	char(200)
Text2	$EI-TEXT-FIELD-2	CHAR(200)
Text3	$EI-TEXT-FIELD-3	CHAR(200)
Text4	$EI-TEXT-FIELD-4	CHAR(200)
Text5	$EI-TEXT-FIELD-5	CHAR(200)
Text6	$EI-TEXT-FIELD-6	CHAR(200)
Bit1	$EI-FLAG-1	CHAR(1)
Bit2	$EI-FLAG-2	CHAR(1)
Bit3	$EI-FLAG-3	CHAR(1)
Bit4	$EI-FLAG-4	CHAR(1)
Decimal1	$EI-DECIMAL-1	decimal
Decimal2	$EI-DECIMAL-2	decimal
Decimal3	$EI-DECIMAL-3	decimal
Decimal4	$EI-DECIMAL-4	decimal
Money1	$EI-MONEY-1	decimal
Money2	$EI-MONEY-2	decimal
Money3	$EI-MONEY-3	decimal

Column Name	FMS Element Name	Type
Money4	$EI-MONEY-4	decimal
Integer1	$EI-INTEGER-1	int
Integer2	$EI-INTEGER-2	int
Integer3	$EI-INTEGER-3	int
Integer4	$EI-INTEGER-4	int
Date1	$EI-DATE-1	CHAR(8); FMS Date Data type
Date2	$EI-DATE-1	CHAR(8); FMS Date Data type
Date3	$EI-DATE-1	CHAR(8); FMS Date Data type
Date4	$EI-DATE-1	CHAR(8); FMS Date Data type
UpdateDate	$EI-UPDATE-DATE	CHAR(8)
UpdateTime	$EI-UDPATE-TIME	char(8)

Delete Interface Record SOAP Request

```
POST /fmswebservices/fmswebservices.asmx HTTP/1.1
Host: terry-pc
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceDeleteRecord
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <KeyInformation>
        <Key>int</Key>
        <UpdateDate>string</UpdateDate>
        <UpdateTime>string</UpdateTime>
      </KeyInformation>
    </DocumentExternalInterfaceDeleteRecord>
  </soap12:Body>
</soap12:Envelope>
```

Following is a description of the fields in the bqInput.

- ☑ **Key (Required)**. The integer key value of the external interface record to delete.

- ☑ **UpdateDate (Required)**. The update date on the external interface record to be deleted. This must match the record being deleted or the delete operation is not performed.

- ☑ **UpdateTime (Required)**. The update time on the external interface record to be deleted. This must match the record being deleted or the delete operation is not performed.

Delete Record SOAP Response

```
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceDeleteRecordResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<DocumentExternalInterfaceDeleteRecordResult>int</DocumentExternalInterfaceDe
leteRecordResult>
      <DeleteStatus>
        <Deleted>string</Deleted>
      </DeleteStatus>
    </DocumentExternalInterfaceDeleteRecordResponse>
  </soap12:Body>
</soap12:Envelope>
```

- **DocumentExternalInterfaceDeleteRecordResult**. This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following is description of the field.

> ☑ **Deleted.** If "Y," the record was deleted. If "N," the record was not deleted.

Set Record in Error SOAP Request

```
POST /fmswebservices/fmswebservices.asmx HTTP/1.1
Host: terry-pc
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceSetError
xmlns="http://www.MitchellHumphrey.com/FMSServices">
      <FMSUser>string</FMSUser>
      <FMSPassword1>string</FMSPassword1>
      <FMSPassword2>string</FMSPassword2>
      <FMSPassword3>string</FMSPassword3>
      <Ledger>string</Ledger>
      <OSUser>string</OSUser>
      <OSPassword>string</OSPassword>
      <KeyInformation>
        <Key>int</Key>
        <ErrorDescription>string</ErrorDescription>
        <UpdateDate>string</UpdateDate>
        <UpdateTime>string</UpdateTime>
      </KeyInformation>
    </DocumentExternalInterfaceSetError>
  </soap12:Body>
</soap12:Envelope>
```

Following is a description of the fields in the bqInput.

☑ **Key (Required)**. The key of the document external interface record to set in error.

☑ **ErrorDescription (Required)**. The descriptive text of the error to be stamped on the document external interface record.

➢ UpdateDate (Required). Not used.

➢ UpdateTime (Required). Not used.

Set Record In Error SOAP Response

```
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <DocumentExternalInterfaceSetErrorResponse
xmlns="http://www.MitchellHumphrey.com/FMSServices">

<DocumentExternalInterfaceSetErrorResult>int</DocumentExternalInterfaceSetErr
orResult>
      <ErrorStatus>
        <Updated>string</Updated>
      </ErrorStatus>
    </DocumentExternalInterfaceSetErrorResponse>
  </soap12:Body>
</soap12:Envelope>
```

- **DocumentExternalInterfaceSetErrorResult**. This integer value gives the processing status of the Web Service. Return values are described in *The SOAP Response Message* section of this document.

Following is a detailed description of the field and its value.

☑ **Updated.** If "Y," the record was successfully updated.