

# Uploading Product Updates

## Overview

The AGIISProductUpdate.xml document (here after referred to as “the document”) provides an interface file to AGIIS that supports adding, replacing, adding/replacing<sup>1</sup>, and deleting products, package sizes, and package configurations in the AGIIS database. The same XML structure can be wrapped in the ProductMaintenanceInboundXMLPayload and used in a web service. The definitions for the document’s structure can be found in the [AGIISSchema.xsd](#) document.

The header structure contains information specific to the document itself. It is used to communicate the unique id, the date and time the document was created, the sender and intended recipient.

The input can be specified using either the Flattened ProductGTIN (ProductGTINInformation element) or Traditional Hierarchy (CompanyInformation element) XML structures. The CompanyInformation structure is a set of nested ProductInformation, PackageSizeInformation, and PackageConfigurationInformation structures. A single CompanyInformation element is supported. In batch this CompanyInformation is permitted to contain an unlimited number of products, package sizes, and package configurations belonging to the parent company. In a web service, the CompanyInformation structure is limited to a single ProductInformation. That single ProductInformation is permitted to contain all the package sizes and package configurations pertaining to the parent product. Similarly, batch files are permitted to contain an unlimited number of ProductGTINInformation elements while the web service supports a single ProductGTINInformation element. These structures are used to communicate product adds, replaces, adds/replaces and deletes.

### Examples:

In the following examples only the required elements are included.

<p><b>AddOrReplace Request</b></p> <p>Note that ActionRequest is specified as “Replace” at the Company Level. Only Replace and omitting the ActionRequest is supported at the Company Level. “Child” product, package size, and package configuration</p>	<pre>&lt;CompanyInformation ActionRequest="Replace" ActiveFlag="Active"&gt; &lt;PartnerName&gt;MONSANTO AGRICULTURAL CO&lt;/PartnerName&gt; &lt;PartnerIdentifier Agency="EBID"&gt;0062668030000&lt;/PartnerIdentifier&gt; &lt;AddressInformation&gt;   &lt;AddressLine1&gt;800 N LINDBERGH BLVD&lt;/AddressLine1&gt;   &lt;AddressLine2 /&gt;   &lt;CityName&gt;SAINT LOUIS&lt;/CityName&gt;   &lt;StateOrProvince&gt;MO&lt;/StateOrProvince&gt;   &lt;PostalCode&gt;631670001&lt;/PostalCode&gt;   &lt;PostalCountry&gt;US&lt;/PostalCountry&gt; &lt;/AddressInformation&gt; &lt;UserDefinedLabels&gt;   &lt;ProductLabel1&gt;Product Label 1&lt;/ProductLabel1&gt;   &lt;ProductLabel2&gt;GPOS Reportable&lt;/ProductLabel2&gt;   &lt;ProductLabel3&gt;Product Label 3&lt;/ProductLabel3&gt;   &lt;PkgSizeLabel1&gt;PkgSize Label 1&lt;/PkgSizeLabel1&gt;   &lt;PkgSizeLabel2&gt;PkgSize Label 2&lt;/PkgSizeLabel2&gt;   &lt;PkgSizeLabel3&gt;PkgSize Label 3&lt;/PkgSizeLabel3&gt;   &lt;PkgCfgLabel1&gt;PkgCfg Label 1&lt;/PkgCfgLabel1&gt;   &lt;PkgCfgLabel2&gt;Unit Quantity&lt;/PkgCfgLabel2&gt;   &lt;PkgCfgLabel3&gt;Package Config Label 3&lt;/PkgCfgLabel3&gt; &lt;/UserDefinedLabels&gt; &lt;CompanyPrefixCode ActiveFlag="Active"&gt;0070183&lt;/CompanyPrefixCode&gt; &lt;CompanyPrefixCode ActiveFlag="Active"&gt;0883580&lt;/CompanyPrefixCode&gt; &lt;ProductSecurityInformation&gt;   &lt;Subscribers listmode="Open"&gt;</pre>
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<sup>1</sup> The AddOrReplace request will add the record if it does not already exist or will update the record if it already exists in the AGIIS database.

levels support  
Add, Replace,  
AddOrReplace,  
and Delete  
ActionRequest  
values..

```

</Subscribers>
</ProductSecurityInformation>
<ProductInformation ActionRequest="AddOrReplace" ActiveFlag="Active">
  <ProductIdentification>
    <ProductIdentifier>4969</ProductIdentifier>
    <ProductName>ROUNDUP 4969</ProductName>
  </ProductIdentification>
  <BrandName>ROUNDUP 4969 BRAND</BrandName>
  <ProductVariety>VH</ProductVariety>
  <ProductMaturity>1</ProductMaturity>
  <ProductTraits>TRAIT</ProductTraits>
  <ProductCrop>Corn</ProductCrop>
  <ProductTreatments>TREAT</ProductTreatments>
  <EPARegistrationNumber>127</EPARegistrationNumber>
  <UserDefinedField1>1</UserDefinedField1>
  <UserDefinedField2>NO</UserDefinedField2>
  <UserDefinedField3>1</UserDefinedField3>
  <DateLastVerified>20120620T091947</DateLastVerified>
  <PrimaryProductSegmentCode>Chemical</PrimaryProductSegmentCode>
  <LastModifiedDateTime>20120620T091947</LastModifiedDateTime>
  <LinkedAgreementInformation>
    <AgreementIdentifier>
      <PartnerIdentifier Agency="EBID">0062668030000</PartnerIdentifier>
      <AgreementCode>MTA1</AgreementCode>
    </AgreementIdentifier>
    <AgreementName>Monsanto Technology / Stewardship Agreement - Cotton
    Traits</AgreementName>
    <AgreementDescription>This Monsanto Technology/Stewardship Agreement status grants
    Grower a limited license to use Roundup Ready cotton, Bollgard cotton, Bollgard with
    Roundup Ready cotton, Bollgard II cotton, Bollgard II with Roundup Ready cotton (Monsanto
    Technologies). This Agreement also contains Grower's stewardship responsibilities and
    requirements associated with the Monsanto Technologies. For complete terms see the
    Technology/Stewardship Agreement and Technology Use Guide available at
    http://www.farmsource.com/TraitStewardshipSupport/start.asp</AgreementDescription>
    <ContactName>Monsanto Grower Licensing Team</ContactName>
    <ContactPhone>8007686387</ContactPhone>
  </LinkedAgreementInformation>
  <LinkedAgreementInformation>
    <AgreementIdentifier>
      <PartnerIdentifier Agency="EBID">0062668030000</PartnerIdentifier>
      <AgreementCode>MCS-01</AgreementCode>
    </AgreementIdentifier>
    <AgreementName>Majestic Chemical Supply Product Usage Agreement</AgreementName>
    <AgreementDescription>This Majestic Chemical Supply Product Usage Agreement status
    grants Grower a limited license to use Majestic soybeans, Majestic Corn Borer corn,
    Majestic Rootworm corn, Majestic Rootworm with Majestic Ready corn 2, Majestic Plus corn,
    Majestic Plus with Majestic Ready corn 2, Majestic corn, Majestic corn 2, Majestic Corn
    Borer with Majestic corn, Majestic Corn Borer with Majestic corn 2, Majestic sugar beans,
    Majestic canola, and Majestic alfalfa (Majestic Chemical Supply's Technologies). This
    Agreement also contains Grower's stewardship responsibilities and requirements
    associated with the Majestic Chemical Supply's.</AgreementDescription>
    <ContactName>Seth Subadminall</ContactName>
    <ContactPhone>9134698700</ContactPhone>
  </LinkedAgreementInformation>
  <PackageSizeInformation ActionRequest="AddOrReplace" ActiveFlag="Active">
    <CompanyPrefixCode>0070183</CompanyPrefixCode>
    <PackageSizeCode>00001</PackageSizeCode>
    <PackageSizeName>ROUNDUP 4969 Package Size</PackageSizeName>
    <ShortDescription>SHORT</ShortDescription>
    <LongDescription>LONG</LongDescription>
    <BaseQuantity>
      <Measurement>
        <MeasurementValue>2</MeasurementValue>
        <UnitOfMeasureCode Domain="ANSI X12">GA</UnitOfMeasureCode>
        <UnitOfMeasureCode Domain="UN REC 20">GLL</UnitOfMeasureCode>
      </Measurement>
    </BaseQuantity>
    <PackageUnitOfMeasureCode Domain="ANSI X12">BO</PackageUnitOfMeasureCode>
    <PackageUnitOfMeasureCode Domain="UN REC 20">BO</PackageUnitOfMeasureCode>
    <ReportingUnitOfMeasureCode Domain="ANSI X12">G2</ReportingUnitOfMeasureCode>
    <ReportingUnitOfMeasureCode Domain="UN REC 20">G2</ReportingUnitOfMeasureCode>

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	<pre> &lt;SeedSize&gt;1&lt;/SeedSize&gt; &lt;UserDefinedField1&gt;L1&lt;/UserDefinedField1&gt; &lt;UserDefinedField2&gt;L2&lt;/UserDefinedField2&gt; &lt;UserDefinedField3&gt;L3&lt;/UserDefinedField3&gt; &lt;DateEntered&gt;20120327T113159&lt;/DateEntered&gt; &lt;DateLastVerified&gt;20120619T113622&lt;/DateLastVerified&gt; &lt;LastModifiedDateTime&gt;20120619T113622&lt;/LastModifiedDateTime&gt; &lt;PackageConfigurationInformation ActionRequest="AddOrReplace" ActiveFlag="Active"&gt;   &lt;PackageLevelCode&gt;0&lt;/PackageLevelCode&gt;   &lt;CompanyPrefixCode&gt;0070183&lt;/CompanyPrefixCode&gt;   &lt;PackageSizeCode&gt;00001&lt;/PackageSizeCode&gt;   &lt;CheckDigit&gt;2&lt;/CheckDigit&gt;   &lt;GTIN&gt;00070183000012&lt;/GTIN&gt;   &lt;PackageUnitOfMeasureCode Domain="ANSI X12"&gt;PL&lt;/PackageUnitOfMeasureCode&gt;   &lt;PackageUnitOfMeasureCode Domain="UN REC 20"&gt;D97&lt;/PackageUnitOfMeasureCode&gt;   &lt;ReportingIdentifier&gt;RID&lt;/ReportingIdentifier&gt;   &lt;BasePackageQuantity&gt;     &lt;Measurement&gt;       &lt;MeasurementValue&gt;1&lt;/MeasurementValue&gt;       &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;G2&lt;/UnitOfMeasureCode&gt;       &lt;UnitOfMeasureCode Domain="UN REC 20"&gt;G2&lt;/UnitOfMeasureCode&gt;     &lt;/Measurement&gt;   &lt;/BasePackageQuantity&gt;   &lt;ChildPackagingQuantity&gt;     &lt;Measurement&gt;       &lt;MeasurementValue&gt;1&lt;/MeasurementValue&gt;       &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;G2&lt;/UnitOfMeasureCode&gt;       &lt;UnitOfMeasureCode Domain="UN REC 20"&gt;G2&lt;/UnitOfMeasureCode&gt;     &lt;/Measurement&gt;   &lt;/ChildPackagingQuantity&gt;   &lt;CalculatedVolumeQuantity&gt;1&lt;/CalculatedVolumeQuantity&gt;   &lt;WeightGross&gt;1&lt;/WeightGross&gt;   &lt;WeightTare&gt;1&lt;/WeightTare&gt;   &lt;WeightNet&gt;1&lt;/WeightNet&gt;   &lt;WeightUnitOfMeasureCode Domain="ANSI X12"&gt;G2&lt;/WeightUnitOfMeasureCode&gt;   &lt;WeightUnitOfMeasureCode Domain="UN REC 20"&gt;G2&lt;/WeightUnitOfMeasureCode&gt;   &lt;DimensionLength&gt;1&lt;/DimensionLength&gt;   &lt;DimensionWidth&gt;1&lt;/DimensionWidth&gt;   &lt;DimensionHeight&gt;1&lt;/DimensionHeight&gt;   &lt;DimensionUnitOfMeasureCode Domain="ANSI X12"&gt;G2&lt;/DimensionUnitOfMeasureCode&gt;   &lt;DimensionUnitOfMeasureCode Domain="UN REC 20"&gt;G2&lt;/DimensionUnitOfMeasureCode&gt;   &lt;SquareArea&gt;     &lt;Measurement&gt;       &lt;MeasurementValue&gt;1&lt;/MeasurementValue&gt;       &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;G2&lt;/UnitOfMeasureCode&gt;       &lt;UnitOfMeasureCode Domain="UN REC 20"&gt;G2&lt;/UnitOfMeasureCode&gt;     &lt;/Measurement&gt;   &lt;/SquareArea&gt;   &lt;CubicDimension&gt;     &lt;Measurement&gt;       &lt;MeasurementValue&gt;1&lt;/MeasurementValue&gt;       &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;G2&lt;/UnitOfMeasureCode&gt;       &lt;UnitOfMeasureCode Domain="UN REC 20"&gt;G2&lt;/UnitOfMeasureCode&gt;     &lt;/Measurement&gt;   &lt;/CubicDimension&gt;   &lt;StackingHeight&gt;1&lt;/StackingHeight&gt;   &lt;PCPNumber&gt;421-534&lt;/PCPNumber&gt;   &lt;UserDefinedField1&gt;L1&lt;/UserDefinedField1&gt;   &lt;UserDefinedField2&gt;Y&lt;/UserDefinedField2&gt;   &lt;UserDefinedField3&gt;Y&lt;/UserDefinedField3&gt;   &lt;DateLastVerified&gt;20120619T113622&lt;/DateLastVerified&gt;   &lt;LastModifiedDateTime&gt;20120619T113623&lt;/LastModifiedDateTime&gt; &lt;/PackageConfigurationInformation&gt; &lt;PackageConfigurationInformation ActionRequest="AddOrReplace" ActiveFlag="Active"&gt;   &lt;PackageLevelCode&gt;8&lt;/PackageLevelCode&gt;   &lt;CompanyPrefixCode&gt;0070183&lt;/CompanyPrefixCode&gt;   &lt;PackageSizeCode&gt;00001&lt;/PackageSizeCode&gt;   &lt;CheckDigit&gt;8&lt;/CheckDigit&gt;   &lt;GTIN&gt;80070183000018&lt;/GTIN&gt;   &lt;PackageUnitOfMeasureCode Domain="ANSI X12"&gt;GA&lt;/PackageUnitOfMeasureCode&gt;   &lt;PackageUnitOfMeasureCode Domain="UN REC 20"&gt;GLL&lt;/PackageUnitOfMeasureCode&gt; </pre>
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	<pre> &lt;UserDefinedField2&gt;N&lt;/UserDefinedField2&gt; &lt;UserDefinedField3&gt;N&lt;/UserDefinedField3&gt; &lt;DateLastVerified&gt;20120529T111953&lt;/DateLastVerified&gt; &lt;LastModifiedDateTime&gt;20120529T111953&lt;/LastModifiedDateTime&gt; &lt;/PackageConfigurationInformation&gt; &lt;/PackageSizeInformation&gt; &lt;ProductSecurityInformation&gt;   &lt;Subscribers listmode="Exclude"&gt;     &lt;PartnerIdentifier Agency="EBID"&gt;0143971340000&lt;/PartnerIdentifier&gt;     &lt;PartnerIdentifier Agency="EBID"&gt;8251338410000&lt;/PartnerIdentifier&gt;   &lt;/Subscribers&gt; &lt;/ProductSecurityInformation&gt; &lt;/ProductInformation&gt; &lt;/CompanyInformation&gt; </pre>
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The above example contains 4 add requests. 1 product, 1 package size for that product, and 2 package configurations for the package size. Linked agreements are established for the product as well as product security. Product security is specified at the Company level as “Open” but overridden for this specific product which defines 2 subscribers as “excluded” from viewing this product. Company level product security can be defined as “Open”, “Include” (which requires a specific list of subscribers who are allowed to view the product), or “Exclude” (which requires a specific list of subscribers who are prohibited from viewing the product). Product level security should only be established when there is a need to supercede Company level settings for this product. Product level security settings include “Use Subscriber Setting” (default), Open, Include, and Exclude.

The following example demonstrates a similar function using the Flattened ProductGTIN structure.

<p><b>Flattened ProductGTIN Example</b></p>	<pre> &lt;ProductGTINInformation ActionRequest="AddOrReplace"&gt;   &lt;ProductGTINCompanyInformation ActiveFlag="Active"&gt;     &lt;PartnerName&gt;MONSANTO AGRICULTURAL CO&lt;/PartnerName&gt;     &lt;PartnerIdentifier Agency="EBID"&gt;0062668030000&lt;/PartnerIdentifier&gt;     &lt;AddressInformation&gt;       &lt;AddressLine1&gt;800 N LINDBERGH BLVD&lt;/AddressLine1&gt;       &lt;AddressLine2 /&gt;       &lt;CityName&gt;SAINT LOUIS&lt;/CityName&gt;       &lt;StateOrProvince&gt;MO&lt;/StateOrProvince&gt;       &lt;PostalCode&gt;631670001&lt;/PostalCode&gt;       &lt;PostalCountry&gt;US&lt;/PostalCountry&gt;     &lt;/AddressInformation&gt;     &lt;UserDefinedLabels&gt;       &lt;ProductLabel1&gt;Product Label 1&lt;/ProductLabel1&gt;       &lt;ProductLabel2&gt;GPOS Reportable&lt;/ProductLabel2&gt;       &lt;ProductLabel3&gt;Product Label 3&lt;/ProductLabel3&gt;       &lt;PkgSizeLabel1&gt;Package Size Label 1&lt;/PkgSizeLabel1&gt;       &lt;PkgSizeLabel2&gt;Package Size Label 2&lt;/PkgSizeLabel2&gt;       &lt;PkgSizeLabel3&gt;Package Size Label 3&lt;/PkgSizeLabel3&gt;       &lt;PkgCfgLabel1&gt;Package Config Label 1&lt;/PkgCfgLabel1&gt;       &lt;PkgCfgLabel2&gt;Unit Quantity&lt;/PkgCfgLabel2&gt;       &lt;PkgCfgLabel3&gt;Package Config Label 3&lt;/PkgCfgLabel3&gt;     &lt;/UserDefinedLabels&gt;   &lt;/ProductGTINCompanyInformation&gt;   &lt;ProductGTINProductInformation ActiveFlag="Active"&gt;     &lt;ProductIdentification&gt;       &lt;ProductIdentifier&gt;4968&lt;/ProductIdentifier&gt;       &lt;ProductName&gt;ROUNDUP ORIGINAL II CRB0521&lt;/ProductName&gt;     &lt;/ProductIdentification&gt;     &lt;BrandName&gt;CRB LEVEL5 BRAND&lt;/BrandName&gt;     &lt;EPARegistrationNumber&gt;524-454&lt;/EPARegistrationNumber&gt;     &lt;DateLastVerified&gt;20120327T103645&lt;/DateLastVerified&gt;     &lt;PrimaryProductSegmentCode&gt;Chemical&lt;/PrimaryProductSegmentCode&gt;     &lt;LastModifiedDateTime&gt;20120327T103645&lt;/LastModifiedDateTime&gt;     &lt;LastModifiedUserID&gt;CBROWN&lt;/LastModifiedUserID&gt;     &lt;CreationDateTime&gt;20050806T020134&lt;/CreationDateTime&gt;     &lt;CreationUserID&gt;AGIISBATCH&lt;/CreationUserID&gt;   &lt;/ProductGTINProductInformation&gt; &lt;/ProductGTINInformation&gt; </pre>
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</ProductGTINProductInformation>
<ProductGTINPackageSizeInformation ActiveFlag="Active">
  <CompanyPrefixCode>0070183</CompanyPrefixCode>
  <PackageSizeCode>00236</PackageSizeCode>
  <PackageSizeName>ROUNDUP ORIGINAL II 250 GA SHUTTLE US 250 GA KEYLOCK W/O
PUMP</PackageSizeName>
  <ShortDescription>ROUNDUP ORIGINAL II 250 GA SHUTTLE US 250 GA KEYLOCK W/O
PUMP</ShortDescription>
  <LongDescription>ROUNDUP ORIGINAL II 250 GA SHUTTLE US 250 GA KEYLOCK W/O
PUMP</LongDescription>
  <BaseQuantity>
    <Measurement>
      <MeasurementValue>250</MeasurementValue>
      <UnitOfMeasureCode Domain="ANSI X12">GA</UnitOfMeasureCode>
      <UnitOfMeasureCode Domain="UN REC 20">GLL</UnitOfMeasureCode>
    </Measurement>
  </BaseQuantity>
  <PackageUnitOfMeasureCode Domain="ANSI X12">TK</PackageUnitOfMeasureCode>
  <PackageUnitOfMeasureCode Domain="UN REC 20">TK</PackageUnitOfMeasureCode>
  <ReportingUnitOfMeasureCode Domain="ANSI
X12">GA</ReportingUnitOfMeasureCode>
  <ReportingUnitOfMeasureCode Domain="UN REC
20">GLL</ReportingUnitOfMeasureCode>
  <DateEntered>20030812T202712</DateEntered>
  <DateLastVerified>20061216T000000</DateLastVerified>
  <LastModifiedDateTime>20060819T020520</LastModifiedDateTime>
  <LastModifiedUserID>AGIISBATCH</LastModifiedUserID>
  <CreationDateTime>20030812T202712</CreationDateTime>
  <CreationUserID>CONVERSION</CreationUserID>
</ProductGTINPackageSizeInformation>
<ProductGTINPackageConfigurationInformation ActiveFlag="Active">
  <PackageLevelCode>0</PackageLevelCode>
  <CheckDigit>8</CheckDigit>
  <GTIN>00070183002368</GTIN>
  <PackageUnitOfMeasureCode Domain="ANSI X12">TK</PackageUnitOfMeasureCode>
  <PackageUnitOfMeasureCode Domain="UN REC 20">TK</PackageUnitOfMeasureCode>
  <ReportingIdentifier>070183002368</ReportingIdentifier>
  <BasePackageQuantity>
    <Measurement>
      <MeasurementValue>1</MeasurementValue>
      <UnitOfMeasureCode Domain="ANSI X12">TK</UnitOfMeasureCode>
      <UnitOfMeasureCode Domain="UN REC 20">TK</UnitOfMeasureCode>
    </Measurement>
  </BasePackageQuantity>
  <ChildPackagingQuantity>
    <Measurement>
      <MeasurementValue>1</MeasurementValue>
      <UnitOfMeasureCode Domain="ANSI X12">TK</UnitOfMeasureCode>
      <UnitOfMeasureCode Domain="UN REC 20">TK</UnitOfMeasureCode>
    </Measurement>
  </ChildPackagingQuantity>
  <CalculatedVolumeQuantity>250</CalculatedVolumeQuantity>
  <WeightGross>2639</WeightGross>
  <WeightTare>204</WeightTare>
  <WeightNet>2435</WeightNet>
  <WeightUnitOfMeasureCode Domain="ANSI X12">LB</WeightUnitOfMeasureCode>
  <WeightUnitOfMeasureCode Domain="UN REC 20">LBR</WeightUnitOfMeasureCode>
  <DimensionLength>46.1250</DimensionLength>
  <DimensionWidth>46.1250</DimensionWidth>
  <DimensionHeight>52.75</DimensionHeight>
  <DimensionUnitOfMeasureCode Domain="ANSI
X12">IN</DimensionUnitOfMeasureCode>
  <DimensionUnitOfMeasureCode Domain="UN REC
20">INH</DimensionUnitOfMeasureCode>
  <SquareArea>
    <Measurement>
      <MeasurementValue>14.7744</MeasurementValue>
      <UnitOfMeasureCode Domain="ANSI X12">FT</UnitOfMeasureCode>
      <UnitOfMeasureCode Domain="UN REC 20">FOT</UnitOfMeasureCode>
    </Measurement>
  </SquareArea>

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	<pre> &lt;CubicDimension&gt;   &lt;Measurement&gt;     &lt;MeasurementValue&gt;64.9459&lt;/MeasurementValue&gt;     &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;FT&lt;/UnitOfMeasureCode&gt;     &lt;UnitOfMeasureCode Domain="UN REC 20"&gt;FOT&lt;/UnitOfMeasureCode&gt;   &lt;/Measurement&gt; &lt;/CubicDimension&gt; &lt;StackingHeight&gt;2&lt;/StackingHeight&gt; &lt;PCPNumber&gt;421-534&lt;/PCPNumber&gt; &lt;DateLastVerified&gt;20110523T000000&lt;/DateLastVerified&gt; &lt;LastModifiedDateTime&gt;20060819T020520&lt;/LastModifiedDateTime&gt; &lt;LastModifiedUserID&gt;AGIISBATCH&lt;/LastModifiedUserID&gt; &lt;CreationDateTime&gt;20040712T030011&lt;/CreationDateTime&gt; &lt;CreationUserID&gt;AGIISBATCH&lt;/CreationUserID&gt; &lt;/ProductGTINPackageConfigurationInformation&gt; &lt;/ProductGTINInformation&gt; </pre>
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<p><b>Replace Request</b></p>	<pre> &lt;ProductInformation ActiveFlag="Active" ActionRequest="Replace"&gt;   &lt;ProductIdentification&gt;     &lt;ProductIdentifier&gt;4752&lt;/ProductIdentifier&gt;     &lt;ProductName&gt;ROUNDUP ORIGINAL III&lt;/ProductName&gt;   &lt;/ProductIdentification&gt;   &lt;EPARegistrationNumber&gt;CNA&lt;/EPARegistrationNumber&gt;   &lt;PrimaryProductSegmentCode&gt;Chemical&lt;/PrimaryProductSegmentCode&gt;   &lt;PackageSizeInformation ActiveFlag="Active" ActionRequest="Replace"&gt;     &lt;CompanyPrefixCode&gt;0070183&lt;/CompanyPrefixCode&gt;     &lt;PackageSizeCode&gt;50793&lt;/PackageSizeCode&gt;     &lt;PackageSizeName&gt;ROUNDUP ORIGINAL III 120 GA SHUTTLE   &lt;/PackageSizeName&gt;     &lt;BaseQuantity&gt;       &lt;Measurement&gt;         &lt;MeasurementValue&gt;120&lt;/MeasurementValue&gt;         &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;GA&lt;/UnitOfMeasureCode&gt;       &lt;/Measurement&gt;     &lt;/BaseQuantity&gt;     &lt;PackageUnitOfMeasureCode Domain="ANSI X12"&gt;TK&lt;/PackageUnitOfMeasureCode&gt;     &lt;ReportingUnitOfMeasureCode Domain="UN REC 20"&gt;GLL&lt;/ReportingUnitOfMeasureCode&gt;   &lt;/PackageSizeInformation&gt; &lt;/ProductInformation&gt; </pre>
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The above example will replace the package size information for the package size that was added in the first example. Note that we are only providing the required elements and the elements that are to be updated. Also note that the unit-of-measure elements can be expressed with either ANSI X12 or UN REC 20 coding conventions.

<p><b>Add\Replace Request</b></p>	<pre> &lt;ProductInformation ActiveFlag="Active" ActionRequest="AddOrReplace"&gt;   &lt;ProductIdentification&gt;     &lt;ProductIdentifier&gt;4752&lt;/ProductIdentifier&gt;     &lt;ProductName&gt;ROUNDUP ORIGINAL III&lt;/ProductName&gt;   &lt;/ProductIdentification&gt;   &lt;EPARegistrationNumber&gt;CNA&lt;/EPARegistrationNumber&gt;   &lt;PrimaryProductSegmentCode&gt;Chemical&lt;/PrimaryProductSegmentCode&gt;   &lt;PackageSizeInformation ActiveFlag="Active" ActionRequest="AddOrReplace"&gt;     &lt;CompanyPrefixCode&gt;0070183&lt;/CompanyPrefixCode&gt;     &lt;PackageSizeCode&gt;50793&lt;/PackageSizeCode&gt;     &lt;PackageSizeName&gt;ROUNDUP ORIGINAL III 120 GA SHUTTLE&lt;/PackageSizeName&gt;     &lt;BaseQuantity&gt;       &lt;Measurement&gt;         &lt;MeasurementValue&gt;120&lt;/MeasurementValue&gt;         &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;GA&lt;/UnitOfMeasureCode&gt;       &lt;/Measurement&gt;     &lt;/BaseQuantity&gt;     &lt;PackageUnitOfMeasureCode Domain="ANSI X12"&gt;TK&lt;/PackageUnitOfMeasureCode&gt;     &lt;ReportingUnitOfMeasureCode Domain="UN REC 20"&gt;GLL&lt;/ReportingUnitOfMeasureCode&gt;   &lt;/PackageSizeInformation&gt; </pre>
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	<code>&lt;/ProductInformation&gt;</code>
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The above example will add a new product record or update it if it already exists and will either add a new package size record or update it if it already exists. Note that we are only providing the required elements and the elements that are to be updated. Also note that the unit-of-measure elements can be expressed with either ANSI X12 or UN REC 20 coding conventions.

<b>Delete Request</b>	<pre> &lt;ProductInformation ActiveFlag="Active"&gt;   &lt;ProductIdentification&gt;     &lt;ProductIdentifier&gt;4752&lt;/ProductIdentifier&gt;     &lt;ProductName&gt;ROUNDUP ORIGINAL III&lt;/ProductName&gt;   &lt;/ProductIdentification&gt;   &lt;EPARegistrationNumber&gt;CNA&lt;/EPARegistrationNumber&gt;   &lt;PrimaryProductSegmentCode&gt;Chemical&lt;/PrimaryProductSegmentCode&gt;   &lt;PackageSizeInformation ActiveFlag="Active"&gt;     &lt;CompanyPrefixCode&gt;0070183&lt;/CompanyPrefixCode&gt;     &lt;PackageSizeCode&gt;50793&lt;/PackageSizeCode&gt;     &lt;PackageSizeName&gt;ROUNDUP ORIGINAL III 120 GA SHUTTLE&lt;/PackageSizeName&gt;     &lt;BaseQuantity&gt;       &lt;Measurement&gt;         &lt;MeasurementValue&gt;120&lt;/MeasurementValue&gt;         &lt;UnitOfMeasureCode Domain="ANSI X12"&gt;GA&lt;/UnitOfMeasureCode&gt;       &lt;/Measurement&gt;     &lt;/BaseQuantity&gt;     &lt;PackageUnitOfMeasureCode Domain="ANSI X12"&gt;TK&lt;/PackageUnitOfMeasureCode&gt;     &lt;PackageConfigurationInformation ActiveFlag="Active" ActionRequest="Delete"&gt;       &lt;PackageLevelCode&gt;3&lt;/PackageLevelCode&gt;       &lt;CheckDigit&gt;2&lt;/CheckDigit&gt;     &lt;/PackageConfigurationInformation&gt;   &lt;/PackageSizeInformation&gt; &lt;/ProductInformation&gt; </pre>
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The delete example is removing a package configuration for the package size that was added in the first example.

Note that the hierarchical relationship must be supplied. (i.e. In order to delete a package configuration it must be wrapped in its package size which in turn is wrapped in its product.) ActionRequest attributes should only be specified on those elements that require an action to be performed.

Cascade delete is in effect. Therefore specifying the following XML will delete the specified package size and all its configurations. Note that this operation will fail and rollback if any subscriber is cross-referenced to any of the configurations for this package size.

```

<ProductInformation ActiveFlag="Active">
  <ProductIdentification>
    <ProductIdentifier>4752</ProductIdentifier>
    <ProductName>ROUNDUP ORIGINAL III</ProductName>
  </ProductIdentification>
  <EPARegistrationNumber>CNA</EPARegistrationNumber>
  <PrimaryProductSegmentCode>Chemical</PrimaryProductSegmentCode>
  <PackageSizeInformation ActiveFlag="Active" ActionRequest="Delete">
    <CompanyPrefixCode>0070183</CompanyPrefixCode>
    <PackageSizeCode>50793</PackageSizeCode>
    <PackageSizeName> ROUNDUP ORIGINAL III 120 GA SHUTTLE NON-KEYLOCK W/O PUMP</PackageSizeName>
    <BaseQuantity>
      <Measurement>
        <MeasurementValue>120</MeasurementValue>
        <UnitOfMeasureCode Domain="ANSI X12">GA</UnitOfMeasureCode>
      </Measurement>
    </BaseQuantity>
    <PackageUnitOfMeasureCode Domain="ANSI X12">TK</PackageUnitOfMeasureCode>
  </PackageSizeInformation>
</ProductInformation>

```

**Required Elements for Add requests and AddOrReplace requests where the record does not already exist:**

Product	ProductIdentification PrimaryProductSegmentCode
---------	--

	EPARegistrationNumber (if PrimaryProductSegmentCode = Chemical)
PackageSizeInformation	CompanyPrefixCode PackageSizeCode PackageSizeName BaseQuantity PackageUnitOfMeasureCode
PackageConfigurationInformation	PackageLevelCode CheckDigit PackageUnitOfMeasureCode

Required Elements for Replace requests, AddOrReplace requests where the record already exists, and Delete requests:

Product	ProductIdentification PrimaryProductSegmentCode EPARegistrationNumber (if PrimaryProductSegmentCode = Chemical)
PackageSizeInformation	CompanyPrefixCode PackageSizeCode
PackageConfigurationInformation	PackageLevelCode CheckDigit

Subscribers can upload their documents by using either the File Upload feature on the AGIIS web site or an FTP client. Subscriber's wishing to use an FTP client are encouraged to contact the AGIIS Help Desk prior to uploading their first file to verify their FTP information.

## Communication

A Product Import completion e-mail is sent to the list of "product import" email contacts on the AGIIS Subscriber Profile on the AGIIS website. The e-mail subject line and body will be different depending on the successful processing of records in the Product Import file. If the file contained errors, these will be reported in the body of the e-mail. All Product Import completion e-mails will contain a link to a "log file" containing a line-by-line description of the result of each transaction in the file. The beginning and ending of each "product information block" is clearly identified and indicates the success or failure of each product as a whole. The "log file" will be placed in the subscriber's outbound AGIIS FTP product directory and will be named after the original file with a dash (-) then a date/time stamp (yyyyMMddhhmmss and ending with ".log").

## Error Handling

Commitment of database updates is controlled at the product level. That is, if an error is encountered on a product record or any of its components (product, linked agreements, package sizes and package configurations), all records associated with that product and its components will fail to process. Other records in the file that are not related to the failed product/components are treated as their own commitment cycle and will fail or succeed based on errors (or the lack thereof) within their own hierarchical "blocks".

## Error Conditions

In general, the system will generate errors for any invalid document formatting; this is performed by validating the document against the AGIISchema schema definition. Data values are edited as needed and if an invalid value is detected (e.g. an invalid unit-of-measure code), an appropriate error message is issued and the transaction is rejected. In addition, there are 3 application specific conditions that will generate errors:

Add processing	An error will occur if the system encounters an add request for which there is an existing item. Note, the AddOrReplace transaction can be used to avoid this error.
Replace processing	An error will occur if the system encounters a replace request for which there is no existing item. Note, the AddOrReplace transaction can be used to avoid this error.
Delete processing	An error will occur if the system encounters a delete request for which there is no existing item or if the item's GTIN (package configuration) is cross-referenced in a subscriber's subset.

## Sample Document:

The following is a sample document that adds the "ROUNDUP ORIGINAL III ..." product (with 1 size and 2 configurations).

```
<?xml version="1.0" encoding="utf-8"?>
<AGIISProductUpdate xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" Version="1.0">
  <Header>
    <ThisDocumentIdentifier>
      <DocumentIdentifier>20040624T1140070001</DocumentIdentifier>
    </ThisDocumentIdentifier>
    <ThisDocumentDateTime>
      <DateTime DateTimeQualifier="On">20040624T114007</DateTime>
    </ThisDocumentDateTime>
    <From>
      <PartnerInformation>
        <PartnerName>MONSANTO AGRICULTURAL CO</PartnerName>
        <PartnerIdentifier Agency="EBID">0062668030000</PartnerIdentifier>
        <ContactInformation>
          <ContactName>SAM FONG</ContactName>
          <TelephoneNumber>
            <NationalTelephoneNumber>3146947777</NationalTelephoneNumber>
          </TelephoneNumber>
          <EmailAddress>sfong@covansys.com</EmailAddress>
        </ContactInformation>
      </PartnerInformation>
    </From>
    <To>
      <PartnerInformation>
        <PartnerName>Covansys</PartnerName>
        <PartnerIdentifier Agency="EBID">1324108090000</PartnerIdentifier>
        <ContactInformation>
          <ContactName> AGIIS Help Desk</ContactName>
          <TelephoneNumber>
            <NationalTelephoneNumber>(866) 251-8618</NationalTelephoneNumber>
          </TelephoneNumber>
          <EmailAddress>helpdesk@agiis.org</EmailAddress>
        </ContactInformation>
      </PartnerInformation>
    </To>
  </Header>
  <Body>
    <AGIISProductUpdateDetails>
```

```
<CompanyInformation ActiveFlag="Active">
  <PartnerName>MONSANTO AGRICULTURAL CO</PartnerName>
  <PartnerIdentifier Agency="EBID">0062668030000</PartnerIdentifier>
  <AddressInformation>
    <AddressLine1>800 N LINDBERGH BLVD</AddressLine1>
    <CityName>SAINT LOUIS</CityName>
    <StateOrProvince>MO</StateOrProvince>
    <PostalCode>63167</PostalCode>
  </AddressInformation>
  <UserDefinedLabels>
    <ProductLabel1>Product Label 1</ProductLabel1>
    <ProductLabel2>Product Label 2</ProductLabel2>
    <ProductLabel3>Product Label 3</ProductLabel3>
    <PkgSizeLabel1>Package Size Label 1</PkgSizeLabel1>
    <PkgSizeLabel2>Package Size Label 2</PkgSizeLabel2>
    <PkgSizeLabel3>Package Size Label 3</PkgSizeLabel3>
    <PkgCfgLabel1>Package Config Label 1</PkgCfgLabel1>
    <PkgCfgLabel2>Package Config Label 2</PkgCfgLabel2>
    <PkgCfgLabel3>Package Config Label 3</PkgCfgLabel3>
  </UserDefinedLabels>
  <CompanyPrefixCode ActiveFlag="Active">0070183</CompanyPrefixCode>
  <ProductInformation ActiveFlag="Active" ActionRequest="Add">
    <ProductIdentification>
      <ProductIdentifier>4752</ProductIdentifier>
      <ProductName>ROUNDUP ORIGINAL III</ProductName>
    </ProductIdentification>
    <EPARegistrationNumber>CNA</ EPARegistrationNumber >
    <PrimaryProductSegmentCode>Chemical</PrimaryProductSegmentCode>
    <PackageSizeInformation ActiveFlag="Active" ActionRequest="Add">
      <CompanyPrefixCode>0070183</CompanyPrefixCode>
      <PackageSizeCode>50793</PackageSizeCode>
      <PackageSizeName> ROUNDUP ORIGINAL III 120 GA SHUTTLE NON-KEYLOCK W/O PUMP</PackageSizeName>
      <BaseQuantity>
        <Measurement>
          <MeasurementValue>120</MeasurementValue>
          <UnitOfMeasureCode Domain="ANSI X12">GA</UnitOfMeasureCode>
        </Measurement>
      </BaseQuantity>
      <PackageUnitOfMeasureCode Domain="ANSI X12">TK</PackageUnitOfMeasureCode>
      <PackageConfigurationInformation ActiveFlag="Active" ActionRequest="Add">
        <PackageLevelCode>0</PackageLevelCode>
        <CheckDigit>1</CheckDigit>
        <PackageUnitOfMeasureCode Domain="ANSI X12">TK</PackageUnitOfMeasureCode>
      </PackageConfigurationInformation>
      <PackageConfigurationInformation ActiveFlag="Active" ActionRequest="Add">
        <PackageLevelCode>3</PackageLevelCode>
        <CheckDigit>2</CheckDigit>
        <PackageUnitOfMeasureCode Domain="ANSI X12">GA</PackageUnitOfMeasureCode>
      </PackageConfigurationInformation>
    </PackageSizeInformation>
  </ProductInformation>
</CompanyInformation>
</AGIISProductUpdateDetails>
</Body>
</AGIISProductUpdate>
```