

Business To Manufacturing Markup Language

Batch Markup Language

Version 0500 – February 15, 2012

Errata #5



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Change History:

Change	Date	Person	Description		
#1	20 Apr 2011	Dennis Brandl	The group definition ProductProductionRuleIDGroup has an incorrect type for the ProductProductionRuleID element.		
#2	19 May 2011	Dennis Brandl	The extension element in the FromIDType (line 682) is incorrect.		
#3	7 Aug 2011	Dennis Brandl	The OperationsMaterialBillType has a wrong definition for the OperationsMaterialBillItem. The maxOccurs="unbounded" is missing in the element definition		
#4	24 Jan 2012	Dennis Brandl	The "TimingFactor" element in a SegmentDerpendancy is a ValueType but did not get the update to make it maxOccurs=unbounded		
			2. SegmentData has the <i>Description</i> element defined after the <i>Value</i> element. Every other message has it directly after the <i>ID</i> element. To simplify processing of all message types, the <i>Description</i> element should be moved to after the <i>ID</i> element		
			3. MaterialActualProperty is not recursive like MaterialDefinitionProperty. This means the results in the performance message cannot reflect the structure of the definition in the material master.		
			4. MaterialRequirementProperty is not recursive like MaterialDefinitionProperty. This means the requirements in the schedule message cannot reflect the structure of the definition in the material master.		
#5	15 Feb 2012	Dennis Brandl	1. The "name" attribute in the new definitions of Errata #4 was wrong in (4.3) and (4.4). It should not contain the string "type" or the spaces after the first quote.		
			2. In 4.3, the MaterialActualProperty should come after Quantity and before RequiredByRequestedSegmentResponse.		
			3. The heading of 4.4 was incorrect, it should be B2MML-V0500-OperationsSchedule.xsd		

Se	n 4.1 the "TimingFactor" element in a egmentDerpendancy is a ValueType but did ot get the update to make it naxOccurs=unbounded
O	n 4.2 the Description element in DPSegmentDataType has been moved to be onsistent with other types.

Applying the changes:

This errata document includes all the patches in previous V0500 errata documents. You should make the identified changes to the schemas in your local copies to correct the problems. The changes should be made in the order listed below.

1 Errata #1 - B2MML-V05-Common.xsd

The following problem has been identified in the schemas.

The group definition ProductProductionRuleIDGroup has an incorrect type for the ProductProductionRuleID element.

It is defined as:

2 Errata #2 - BatchML-V05-BatchInformation.xsd

The following problem has been identified in the schemas.

The extension element in the FromIDType (line 682) is incorrect.

It is defined as:

3 Errata #3 - B2MML-V0500-OperationsDefinition.xsd

The following problem has been identified in the schemas.

The OperationsMaterialBillType has a wrong definition for the OperationsMaterialBillItem. The maxOccurs="unbounded" is missing in the element definition.

It is defined as:

4 Errata #4 and #5 - Multiple Items

Errata #4 and #5 consist of 4 patches. Errata #5 consists of corrections to Errata #4, these are indicated by underlining in the schema patches.

4.1 B2MML-V0500-Common.xsd

The "TimingFactor" element in a SegmentDerpendancy is a ValueType but did not get the update to make it maxOccurs=unbounded.

It is defined as:

```
<xsd:complexType name = "SegmentDependencyType">
 <xsd:sequence>
    <xsd:element name = "ID"</pre>
                                          type="IdentifierType"/>
    <xsd:element name = "Description"</pre>
                                          type="DescriptionType"
                                          minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name = "Dependency"</pre>
                                          type="DependencyType"/>
    <xsd:element name = "TimingFactor" type="ValueType"</pre>
                                          minOccurs="0"/>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element name = "ProductSegmentID" type="ProductSegmentIDType"/>
      <xsd:element name = "ProcessSegmentID" type="ProcessSegmentIDType"/>
      <xsd:element name = "SegmentID"</pre>
                                              type="IdentifierType"/>
    </xsd:choice>
    <xsd:group ref = "Extended:SegmentDependency"</pre>
                                          minOccurs="0" maxOccurs="1"/>
 </xsd:sequence>
</xsd:complexType>
```

```
xsd:complexType name = "SegmentDependencyType">
  <xsd:sequence>
    <xsd:element name = "ID"</pre>
                                          type="IdentifierType"/>
    <xsd:element name = "Description"</pre>
                                          type="DescriptionType"
                                          minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name = "Dependency"</pre>
                                          type="DependencyType"/>
    <xsd:element name = "TimingFactor"</pre>
                                          type="ValueType"
                                          minOccurs="0" maxOccurs="unbounded"/>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element name = "ProductSegmentID" type="ProductSegmentIDType"/>
      <xsd:element name = "ProcessSegmentID" type="ProcessSegmentIDType"/>
      <xsd:element name = "SegmentID"</pre>
                                                type="IdentifierType"/>
    </xsd:choice>
    <xsd:group ref = "Extended:SegmentDependency"</pre>
                                          minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>
```

4.2 B2MML-V0500-OperationsPerformanceTypes.xsd

SegmentData has the *Description* element defined after the *Value* element. Every other message has it directly after the *ID* element. To simplify processing of all message types, the *Description* element should be moved to after the *ID* element. You should make the identified changes to the schemas in your local copies to correct the problems:

It is defined as:

```
<xsd:complexType name = "OpSegmentDataType">
   <xsd:sequence>
     <xsd:element name = "ID"</pre>
                                      type="IdentifierType"/>
                                      type="ValueType"
     <xsd:element name = "Value"</pre>
                                     minOccurs="0" maxOccurs="unbounded"/>
     <xsd:element name = "Description" type="DescriptionType"</pre>
                                     minOccurs="0" maxOccurs="unbounded"/>
     <xsd:element name = "SegmentData"</pre>
                                            type="OpSegmentDataType"
                                     minOccurs="0" maxOccurs="unbounded"/>
     <xsd:element name = "RequiredByRequestedSegmentResponse"</pre>
                  type = "RequiredByRequestedSegmentResponseType"
                                     minOccurs = "0"/>
                 ref = "Extended:OpSegmentData"
                                     minOccurs="0" maxOccurs="1"/>
   </xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name = "OpSegmentDataType">
   <xsd:sequence>
     <xsd:element name = "ID"</pre>
                                      type="IdentifierType"/>
     <xsd:element name = "Description" type="DescriptionType"</pre>
                                     minOccurs="0" maxOccurs="unbounded"/>
     <xsd:element name = "Value"</pre>
                                      type="ValueType"
                                      minOccurs="0" maxOccurs="unbounded"/>
     <xsd:element name = "SegmentData"</pre>
                                            type="OpSegmentDataType"
                                      minOccurs="0" maxOccurs="unbounded"/>
     <xsd:element name = "RequiredByRequestedSegmentResponse"</pre>
                   type = "RequiredByRequestedSegmentResponseType"
                                     minOccurs = "0"/>
                  ref = "Extended:OpSegmentData"
     <xsd:group
                                     minOccurs="0" maxOccurs="1"/>
   </xsd:sequence>
</xsd:complexType>
```

4.3 B2MML-V0500-OperationsPerformanceTypes.xsd

MaterialActualProperty is not recursive like MaterialDefinitionProperty. This means the results in the performance message cannot reflect the structure of the definition in the material master. You should make the identified changes to the schemas in your local copies to correct the problems:

It is defined as:

```
<xsd:complexType name = "OpMaterialActualPropertyType">
 <xsd:sequence>
   <xsd:element name = "ID"</pre>
                                     type = "IdentifierType" />
   <xsd:element name = "Description" type = "DescriptionType"</pre>
                      minOccurs = "0" maxOccurs = "unbounded"/>
   <xsd:element name = "Value"</pre>
                                    type = "ValueType"
                     minOccurs = "0" maxOccurs = "unbounded"/>
   minOccurs = "0" maxOccurs = "unbounded"/>
   <xsd:element name = "RequiredByRequestedSegmentResponse"</pre>
               type = "RequiredByRequestedSegmentResponseType"
                      minOccurs = "0"/>
               ref = "Extended:OpMaterialActualProperty"
   <xsd:group
                      minOccurs = "0" maxOccurs = "1"/>
 </xsd:sequence>
</xsd:complexType>
```

```
xsd:complexType name = "OpMaterialActualPropertyType">
 <xsd:sequence>
   <xsd:element name = "ID"</pre>
                                      type = "IdentifierType" />
   <xsd:element name = "Description" type = "DescriptionType"</pre>
                     minOccurs = "0" maxOccurs = "unbounded"/>
   <xsd:element name = "Value"</pre>
                                   type = "ValueType"
                      minOccurs = "0" maxOccurs = "unbounded"/>
   minOccurs = "0" maxOccurs = "unbounded"/>
   <xsd:element name = "MaterialActualProperty"</pre>
                type = "OpMaterialActualPropertyType"
                     minOccurs = "0" maxOccurs = "unbounded"/>
   <xsd:element name = "RequiredByRequestedSegmentResponse"</pre>
                type = "RequiredByRequestedSegmentResponseType"
                      minOccurs = "0"/>
   <xsd:group
               ref = "Extended:OpMaterialActualProperty"
                      minOccurs = "0" maxOccurs = "1"/>
 </xsd:sequence>
</xsd:complexType>
```

4.4 B2MML-V0500-OperationsSchedule.xsd

MaterialRequirementProperty is not recursive like MaterialDefinitionProperty. This means the requirements in the schedule message cannot reflect the structure of the definition in the material master. You should make the identified changes to the schemas in your local copies to correct the problems:

It is defined as:

```
<xsd:complexType name = "OpMaterialRequirementPropertyType">
  <xsd:sequence>
    <xsd:element name = "ID"</pre>
                                     type = "IdentifierType"
                                     minOccurs = "0"/>
    <xsd:element name = "Description" type = "DescriptionType"</pre>
                                     minOccurs = "0" maxOccurs = "unbounded"/>
    <xsd:element name = "Value"</pre>
                                     type = "ValueType"
                                     minOccurs = "0" maxOccurs = "unbounded"/>
    <xsd:element name = "Quantity" type = "QuantityValueType"</pre>
                                     minOccurs = "0" maxOccurs = "unbounded"/>
                 ref = "Extended:OpMaterialRequirementProperty"
    <xsd:group</pre>
                                     minOccurs = "0" maxOccurs = "1"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name = "OpMaterialRequirementPropertyType">
  <xsd:sequence>
    <xsd:element name = "ID"</pre>
                                     type = "IdentifierType"
                                     minOccurs = "0"/>
    <xsd:element name = "Description" type = "DescriptionType"</pre>
                                     minOccurs = "0" maxOccurs = "unbounded"/>
    <xsd:element name = "Value"</pre>
                                     type = "ValueType"
                                     minOccurs = "0" maxOccurs = "unbounded"/>
    <xsd:element name = "Quantity" type = "QuantityValueType"</pre>
                                     minOccurs = "0" maxOccurs = "unbounded"/>
    <xsd:element name = "MaterialRequirementProperty"</pre>
                  type = "OpMaterialRequirementPropertyType"
                                     minOccurs = "0" maxOccurs = "unbounded"/>
    <xsd:group</pre>
                      = "Extended:OpMaterialRequirementProperty"
                                    minOccurs = "0" maxOccurs = "1"/>
  </xsd:sequence>
</xsd:complexType>
```