REVISION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| Document Version | Date | Description | Contributors |
| 1.0 | 06/04/2010 | Documenting the Source XML used as input parameter in the procedures "create" and "update" of the CompoundRegistry Package | M.Fariello |

SCOPE

The scope of this document is limited to describing the functionality of each tag and each attribute of the XML used as input parameter in the "create" procedures and "update" procedures in the Temporary and Definitive context. This document does not describe the rest of the Package’s procedures.

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DESIGN

1. INTRODUCTION

The next tables hold each tag and each attribute of the input XMLs of the procedures "Create" and "Update" used in Submit and Register section.

Near of these you can see an explanation brief.

The next is an explanation of each column of the table:

*Tag optional*: Whether or not it is necessary that the tag in the XML is present?

*Expected Value*: Value or values range expected for the package.

*Optional Value*: Is the value of the tag optional?

*Assigned by package*: Is the value of the tag calculated and assigned by the package?

*Attribute Implemented by each tag*: Identify each operation supported by each tag.

1. TAGS AND ATTRIBUTES

**Procedures in Definitive Context (Register)**

**Create procedure (CreateMultiCompoundRegistry)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **XML** | **Tag Optional** | **Expected value** | **Optional Value** | **Assigned by Package** | **Comments** |
| <MultiCompoundRegistryRecord> | No | - | - | - |  |
| <ID/> | No | 0 | Yes | Yes |  |
| <DateCreated/> | No | Date | No | Yes |  |
| <DateLastModified/> | No | Date | No | Yes |  |
| <PersonCreated/> | No | > 0 | No | No |  |
| <StructureAggregation/> | No | Structure | No | No |  |
| <Approved/> | No | String | Yes | No |  |
| <RegNumber> | No | - | - | - |  |
| <RegID/> | No | 0 | Yes | Yes |  |
| <SequenceNumber/> | No | > = 0 | Yes | Yes | If RegNumber is null the the SequenceNumber value is Calculated. If RegNumber is not null, the SequenceNumber value is saved. |
| <SequenceID/> | No | > 0 | No | No | The SequenceID value is used to build or validate the RegNumber value. |
| <RegNumber/> | No | Null or Formatted String | Yes | Yes | If RegNumber is null then the value will be built using the configuration of the “sequence” identified by the SequenceID value. If RegNumber is not null the value will be validated and saved. |
| </RegNumber> | No | - | - | - |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The “name” attribute represent a name of a Database field. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <IdentifierList> | No | - | - | - |  |
| <Identifier> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | Yes |  |
| <IdentifierID/> | No | > 0 | No | No |  |
| <InputText/> | No | String | Yes | No |  |
| </Identifier> | Yes | - | - | - |  |
| </IdentifierList> | No | - | - | - |  |
| <ProjectList> | No | - | - | - |  |
| <Project> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | Yes |  |
| <ProjectID/> | No | > 0 | Yes | No |  |
| <OrderIndex/> | No | > 0 | No | No |  |
| </Project> | Yes | - | - | - |  |
| </ProjectList> | No | - | - | - |  |
| <ComponentList> | No | - | - | - |  |
| <Component> | No | - | - | - |  |
| <ID/> | Yes | 0 | Yes | No | Not used |
| <ComponentIndex/> | No | < 0 | No | No | It is a decreasing value starting from -1 with the first compound of the List. This value has a correspondence with the CompoundIndex tag into the BathComponent tag. In this way the Batch Data are associated with a compound. |
| <Percentage/> | No | >=0 | Yes | No |  |
| <Compound> | No | - | - | - |  |
| <CompoundID/> | No | 0 | No | No |  |
| <DateCreated/> | No | Date | Yes | Yes |  |
| <DateLastModified/> | No | Date | Yes | Yes |  |
| <PersonCreated/> | No | > 0 | No | No |  |
| <PersonRegistered/> | No | > 0 | No | No |  |
| <Tag/> | No | String | Yes | No |  |
| <RegNumber> | No | - | - | - |  |
| <RegID/> | No | >=0 | No | No | If the value is zero then a new Compound will be created. If the value is more than zero then the Compound will not be created. In this last case the Compound should exist in the Database because it will be used/referenced for the Registry. |
| <SequenceNumber/> | No | 0 | Yes | Yes | If RegID value is more than zero the SequenceNumber value is not used. |
| <SequenceID/> | No | > 0 | No | No | If RegID value is more than zero the SequenceID value is not used. |
| <RegNumber/> | No | Null | Yes | Yes | If RegID is equal to zero then the RegNumber value will be built using the configuration of the “sequence” identified by the SequenceID value. If RegID value is more than zero the RegNumber value is not used. |
| </RegNumber> | No | - | - | - |  |
| <BaseFragment> | No | - | - | - |  |
| <Structure> | No | - | - | - |  |
| <StructureID/> | No | <= 0 | Yes | Yes | If the value is zero then a new structure will be created. If the value is less than zero then the structure will not be created. In this last case the structure should exist in Database because it will be used/referenced for the Compound. |
| <StructureFormat/> | No | String | Yes | No | Not used yet |
| <Structure molWeight="" formula="" /> | No | Structure | No | No | The molWeight and formula attribute are saved in null. The values will be calculated by the "Retrieve" process. |
| <NormalizedStructure/> | No | Structure | No | No |  |
| <UseNormalization/> | No | String | No | No |  |
| </Structure> | No | - | - | - |  |
| </BaseFragment> | No | - | - | - |  |
| <FragmentList> | No | - | - | - |  |
| <Fragment> | Yes | - | - | - |  |
| <CompoundFragmentID/> | No | 0 | Yes | Yes |  |
| <FragmentID/> | No | > 0 | No | No |  |
| </Fragment> | Yes | - | - | - |  |
| </FragmentList> | No | - | - | - |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The “name” attribute represent a name of a Database field. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <IdentifierList> | No | - | - | - |  |
| <Identifier> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | Yes |  |
| <IdentifierID/> | No | > 0 | No | No |  |
| <InputText/> | No | String | Yes | No |  |
| </Identifier> | Yes | - | - | - |  |
| </IdentifierList> | No | - | - | - |  |
| </Compound> | No | - | - | - |  |
| </Component> | No | - | - | - |  |
| </ComponentList> | No | - | - | - |  |
| <BatchList> | No | - | - | - |  |
| <Batch> | No | - | - | - |  |
| <BatchID/> | No | 0 | Yes | Yes |  |
| <BatchNumber/> | No | 0 | Yes | Yes |  |
| <FullRegNumber/> | Yes | null | Yes | Yes |  |
| <DateCreated/> | No | Date | Yes | Yes |  |
| <PersonCreated/> | No | > 0 | No | No |  |
| <PersonRegistered/> | No | > 0 | No | No |  |
| <DateLastModified/> | No | Date | Yes | Yes |  |
| <StatusID /> | No | > 0 | No | No |  |
| <ProjectList> | No | - | - | - |  |
| <Project> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | Yes |  |
| <ProjectID/> | No | > 0 | Yes | No |  |
| <OrderIndex/> | No | >0 | No | No |  |
| </Project> | Yes | - | - | - |  |
| </ProjectList> | No | - | - | - |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The “name” attribute is el field name. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <BatchComponentList> | No | - | - | - |  |
| <BatchComponent> | No | - | - | - |  |
| <ID/> | No | 0 | Yes | No |  |
| <BatchID/> | No | 0 | Yes | No |  |
| <MixtureComponentID/> | No | 0 | Yes | No |  |
| <CompoundID/> | No | 0 | Yes | No |  |
| <ComponentIndex/> | No | < 0 | No | No | It is a decreasing value starting from -1 with the first compound. This value has a correspondence with the CompoundIndex tag into the Component tag. In this way the Batch data are associated with a compound. |
| <OrderIndex/> | No | > 0 | No | No |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The Name attribute is el field name. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <BatchComponentFragmentList> | Yes | - | - | - |  |
| <BatchComponentFragment> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | No |  |
| <FragmentID/> | No | 0 | No | No |  |
| <Equivalents/> | No | 0 | Yes | No |  |
| <OrderIndex/> | No | > 0 | No | No |  |
| </BatchComponentFragment> | Yes | - | - | - |  |
| </BatchComponentFragmentList> | Yes | - | - | - |  |
| </BatchComponent> | No | - | - | - |  |
| </BatchComponentList> | No | - | - | - |  |
| </Batch> | No | - | - | - |  |
| </BatchList> | No | - | - | - |  |
| </MultiCompoundRegistryRecord> | No | - | - | - |  |
|  |  |  |  |  |  |

**Update procedure (UpdateMultiCompoundRegistry)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Attribute Implemented by each tag** | | |  |
| **XML** | **Tag Optional** | **Expected value** | **Optional Value in update process** | **Update** | **Insert** | **Delete** | **Comments** |
| <MultiCompoundRegistryRecord> | No | - | - | No | No | No |  |
| <ID/> | No | > 0 | No | No | No | No |  |
| <DateCreated/> | No | Date | Yes | Yes | No | No |  |
| <DateLastModified/> | No | Date | Yes | No | No | No | This value is set by the package when the Registry is modified |
| <PersonCreated/> | No | > 0 | Yes | Yes | No | No |  |
| <StructureAggregation/> | No | Structure | Yes | Yes | No | No |  |
| <Approved/> | No | String | Yes | Yes | No | No |  |
| <RegNumber> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <RegID/> | No | > 0 | No | No | No | No |  |
| <SequenceNumber/> | No | > 0 | Yes | Yes | No | No | If RegNumber is null, the SequenceNumber value is Calculated. If RegNumber is not null then the SequenceNumber value is saved. |
| <SequenceID/> | No | > 0 | Yes | Yes | No | No | The SequenceID value is used to build or validate the regnumber value. |
| <RegNumber/> | No | Null or Formatted String | Yes | Yes | No | No | If RegNumber is null then the RegNumber value will be Built. If RegNumber is not null the value will be validated and saved. |
| </RegNumber> | No | - | - | - | - | - |  |
| <PropertyList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The name attribute is el field name. The property value is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <IdentifierList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Identifier> | Yes | - | - | No | Yes | Yes | To update the child tags is not necessary set the update attribute to yes |
| <ID/> | No | > 0 | No | No | No | No |  |
| <IdentifierID/> | No | > 0 | Yes | Yes | No | No |  |
| <Value/> | No | String | Yes | Yes | No | No |  |
| <InputText/> | No | String | Yes | Yes | No | No |  |
| </Identifier> | Yes | - | - | - | - | - |  |
| </IdentifierList> | No | - | - | - | - | - |  |
| <ProjectList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Project> | Yes | - | - | No | Yes | Yes | To update the child tags is not necessary set the update attribute to yes |
| <ID/> | No | > 0 | No | No | No | No |  |
| <ProjectID/> | No | > 0 | Yes | Yes | No | No |  |
| <OrderIndex/> | No | > 0 | Yes | No | No | No |  |
| </Project> | No | - | - | - | - | - |  |
| </ProjectList> | No | - | - | - | - | - |  |
| <ComponentList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Component> | No | - | - | No | Yes | Yes | If the "Insert" attribute is equal "yes" then a new Compound is creates and all the data relative to the compound are created too (Fields,Fragments,Identifieds).  Also is necessary the RegID tag equal 0 to insert a new Compound. To update the child tags is not necessary set the update attribute to yes. |
| <ID/> | Yes | 0 | Yes | No | No | No | Not used |
| <ComponentIndex/> | No | < 0 | No | No | No | No | It is a decreasing value, starting from -1 with the first compound. This value has a correspondence with the CompoundIndex tag into the BathComponent tag. In this way the Batch Data are associated with a compound. |
| <Percentage/> | No | >=0 | Yes | Yes | No | No |  |
| <Compound> | No | - | - | No | No | No |  |
| <CompoundID/> | No | > 0 | No | No | No | No |  |
| <DateCreated/> | No | Date | Yes | Yes | No | No |  |
| <DateLastModified/> | No | Date | Yes | No | No | No | This value is set by the package when the Compound is modified |
| <PersonCreated/> | No | > 0 | Yes | No | No | No |  |
| <PersonRegistered/> | No | > 0 | Yes | Yes | No | No |  |
| <Tag/> | No | String | Yes | Yes | No | No |  |
| <RegNumber> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <RegID/> | No | > = 0 | No | No | No | No | If the RegID value is zero and the "Insert" attribute of the Component tag is equal "yes" then will be created a new Compound . If the value is more than zero then will not be created a new Compound . |
| <SequenceNumber/> | No | > 0 | Yes | Yes | No | No |  |
| <SequenceID/> | No | > 0 | Yes | Yes | No | No |  |
| <RegNumber/> | No | Null | Yes | Yes | No | No |  |
| </RegNumber> | No | - | - | - | - | - |  |
| <BaseFragment> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Structure> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <StructureID/> | No | < 0 > | No | Yes | No | No | If the value is zero then a new structure will be created. If the value is less than zero then the structure will not be created. In this last case the structure should exist in Database because it will be used/referenced for the Compound. |
| <StructureFormat/> | No | String | Yes | Yes | No | No | Not used yet |
| <Structure molWeight="" formula="" /> | No | Structure | Yes | Yes | Yes | No | For requirement of the web pag. the "insert" attribute equal to "yes" works in similar way that the update attribute equal yes. So, using the insert the structure is updated, and when the Compound is being inserted a new structure is inserted. The molWeight and formula attribute are saved in null. The values will be calculated by the "Retrieve" process. |
| <NormalizedStructure/> | No | Structure | Yes | Yes | No | No |  |
| <UseNormalization/> | No | String | Yes | Yes | No | No |  |
| </Structure> | No | - | - | - | - | - |  |
| </BaseFragment> | No | - | - | - | - | - |  |
| <FragmentList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Fragment> | Yes | - | - | No | Yes | Yes | To update the child tags is not necessary set the update attribute to yes A Fragment is inserted when the attribute "Insert" is equal yes in the Fragment tag or in the Component tag |
| <CompoundFragmentID/> | No | > 0 | No | No | No | No |  |
| <FragmentID/> | No | > 0 | Yes | Yes | No | No |  |
| </Fragment> | Yes | - | - | - | - | - |  |
| </FragmentList> | No | - | - | - | - | - |  |
| <PropertyList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The name attribute is el field name. The property value represents is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <IdentifierList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Identifier> | Yes | - | - | No | Yes | Yes | To update the child tags is not necessary set the update attribute to yes A Identifier is inserted when the attribute "Insert" is equal "yes" in the Fragment tag or in the Component tag |
| <ID/> | No | > 0 | No | No | No | No |  |
| <IdentifierID/> | No | > 0 | Yes | Yes | No | No |  |
| <Value/> | No | String | Yes | Yes | No | No |  |
| <InputText/> | No | String | Yes | Yes | No | No |  |
| </Identifier> | Yes | - | - | - | - | - |  |
| </IdentifierList> | No | - | - | - | - | - |  |
| </Compound> | No | - | - | - | - | - |  |
| </Component> | No | - | - | - | - | - |  |
| </ComponentList> | No | - | - | - | - | - |  |
| <BatchList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Batch> | No | - | - | No | Yes |  | If the "Insert" attribute is equal "yes" then a new Batch is creates and all the data relative to the batch are created too (Fields, Fragments, Projects, Identifier).  Also is necessary the BatchID tag equal 0 to insert a new Batch. To update the child tags is not necessary set the update attribute to yes |
| <BatchID/> | No | > 0 | No | No | No | No | If the BatchID value is zero and the "Insert" attribute of the Comonent tag is equal "yes" then will be created a new Batch. If the value is more than zero then will not be created a new Batch . |
| <BatchNumber/> | No | > 0 | Yes | Yes | No | No |  |
| <FullRegNumber/> | No | String | Yes | Yes | No | No |  |
| <DateCreated/> | No | Date | Yes | Yes | No | No |  |
| <PersonCreated/> | No | > 0 | Yes | Yes | No | No |  |
| <PersonRegistered/> | No | > 0 | Yes | Yes | No | No |  |
| <DateLastModified/> | No | Date | Yes | No | No | No |  |
| <StatusID /> | No | > 0 | Yes | Yes | No | No |  |
| <TempBatchID /> | No | > 0 | Yes | Yes | No | No |  |
| <ProjectList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Project> | Yes | - | - | No | Yes | Yes | To update the child tags is not necessary set the update attribute to yes |
| <ID/> | No | > 0 | No | No | No | No |  |
| <ProjectID/> | No | > 0 | Yes | Yes | No | No |  |
| <OrderIndex/> | No | > 0 | Yes | No | No | No |  |
| </Project> | Yes | - | - | - | - | - |  |
| </ProjectList> | No | - | - | - | - | - |  |
| <IdentifierList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Identifier> | Yes | - | - | No | Yes | Yes | To update the child tags is not necessary set the update attribute to yes A Identifier is inserted when the attribute "Insert" is equal "yes" in the Identifier tag or in the Component tag |
| <ID/> | No | > 0 | No | No | No | No |  |
| <IdentifierID/> | No | > 0 | Yes | Yes | No | No |  |
| <Value/> | No | String | Yes | Yes | No | No |  |
| <InputText/> | No | String | Yes | Yes | No | No |  |
| </Identifier> | Yes | - | - | - | - | - |  |
| </IdentifierList> | No | - | - | - | - | - |  |
| <PropertyList> | No | - | - | No | No | No |  |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The Name attribute is el field name. The property value represents is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <BatchComponentList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <BatchComponent> | No | - | - | No | Yes | No | When a new batch is inserted are necessary set the insert attribute equal to yes in the tag BatchComponen and in the Batch tag too. When a new Compound is inserted only is necessary set the insert attribute equal to yes in the Component tag. To update the child tags is not necessary set the update attribute to yes. |
| <ID/> | No | > 0 | No | No | No | No |  |
| <BatchID/> | No | > 0 | No | Yes | No | No |  |
| <MixtureComponentID/> | No | > 0 | No | No | No | No |  |
| <CompoundID/> | No | > 0 | No | Yes | No | No |  |
| <ComponentIndex/> | No | < 0 | No | No | No | No | It is a decreasing value starting from -1 with the first compound. This value has a correspondence with the CompoundIndex tag into the Component tag. In this way the Batch Data are associated with a compound. |
| <OrderIndex/> | No | > 0 | Yes | Yes | No | No |  |
| <PropertyList> | No | - | - | No | No | No |  |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The name attribute is el field name. The property value represents is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <BatchComponentFragmentList> | No | - | - | No | No | No |  |
| <BatchComponentFragment> | Yes | - | - | No | Yes | Yes | When a new batch is inserted are necessary set the insert attribute equal to yes in the tag BatchComponentFragment and in the Batch tag too. When a new Compound is inserted only is necessary set the insert attribute equal to yes in the Component tag. To update the child tags is not necessary set the update attribute to yes |
| <ID/> | No | > 0 | No | No | No | No |  |
| <FragmentID/> | No | > 0 | Yes | Yes | No | No |  |
| <Equivalents/> | No | > 0 | Yes | Yes | No | No |  |
| <OrderIndex/> | No | > 0 | Yes | No | No | No |  |
| </BatchComponentFragment> | Yes | - | - | - | - | - |  |
| </BatchComponentFragmentList> | No | - | - | - | - | - |  |
| </BatchComponent> | No | - | - | - | - | - |  |
| </BatchComponentList> | No | - | - | - | - | - |  |
| </Batch> | No | - | - | - | - | - |  |
| </BatchList> | No | - | - | - | - | - |  |
| </MultiCompoundRegistryRecord> | No | - | - | - | - | - |  |

**Procedures in Temporary Context (Submit)**

**Create procedure (**CreateMultiCompoundRegTmp**)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **XML** | **Tag Optional** | **Expected value** | **Optional Value** | **Assigned by Package** | **Comments** |
| <MultiCompoundRegistryRecord> | No | - | - | - |  |
| <ID/> | No | 0 | Yes | Yes |  |
| <DateCreated/> | No | Date | No | Yes |  |
| <DateLastModified/> | No | Date | No | Yes |  |
| <PersonCreated/> | No | > 0 | No | No |  |
| <StructureAggregation/> | No | Structure | No | No |  |
| <Approved/> | No | String | Yes | No |  |
| <RegNumber> | No | - | - | - |  |
| <RegID/> | No | 0 | Yes | No | Not used in Temporary context |
| <SequenceNumber/> | Yes | > = 0 | Yes | No | Not used in Temporary context |
| <SequenceID/> | No | > 0 | No | No | Not used in Temporary context but the value will be used to build or validate the RegNumber value in in Definitive Context |
| <RegNumber/> | No | Null or Formatted String | Yes | No | Not used in Temporary context |
| </RegNumber> | No | - | - | - |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The “name” attribute represent a name of a Database field. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <IdentifierList> | No | - | - | - |  |
| <Identifier> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | No | Not used in Temporary context |
| <IdentifierID/> | No | > 0 | No | No |  |
| <InputText/> | No | String | Yes | No |  |
| <OrderIndex/> | No | > 0 | No | No |  |
| </Identifier> | Yes | - | - | - |  |
| </IdentifierList> | No | - | - | - |  |
| <ProjectList> | No | - | - | - |  |
| <Project> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | No | Not used in Temporary context |
| <ProjectID/> | No | > 0 | No | No |  |
| <OrderIndex/> | No | > 0 | No | No |  |
| </Project> | Yes | - | - | - |  |
| </ProjectList> | No | - | - | - |  |
| <ComponentList> | No | - | - | - |  |
| <Component> | No | - | - | - |  |
| <ID/> | Yes | 0 | Yes | No | Not used in Temporary context |
| <ComponentIndex/> | No | >= 0 | No | No | It is a decreasing value starting from 0 with the first compound of the List. This value has a correspondence with the CompoundIndex tag into the BathComponent tag. In this way the Batch Data are associated with a compound. |
| <Percentage/> | No | >=0 | Yes | No | Not used |
| <Compound> | No | - | - | - |  |
| <CompoundID/> | No | 0 | No | Yes | The value not is taken into account in the process. |
| <DateCreated/> | No | Date | No | Yes |  |
| <DateLastModified/> | No | Date | No | Yes |  |
| <PersonCreated/> | No | > 0 | No | No |  |
| <PersonRegistered/> | Yes | > 0 | Yes | No | Not used in Temporary context |
| <Tag/> | No | String | Yes | No |  |
| <RegNumber> | No | - | - | - |  |
| <RegID/> | No | >=0 | Yes | No | Not used in Temporary context |
| <SequenceNumber/> | No | 0 | Yes | No | Not used in Temporary context |
| <SequenceID/> | No | > 0 | No | No | Not used in Temporary context but the value will be used to build or validate the RegNumber value in in Definitive Context |
| <RegNumber/> | No | Null | Yes | No | Not used in Temporary context |
| </RegNumber> | No | - | - | - |  |
| <BaseFragment> | No | - | - | - |  |
| <ID> |  |  |  |  |  |
| <Structure> | No | - | - | - |  |
| <StructureID/> | No | < 0 > | Yes | No | Not used in Temporary context |
| <StructureFormat/> | No | String | Yes | No | Not used yet |
| <Structure molWeight="" formula="" /> | No | Structure | No | No | The molWeight and formula attribute are saved in null. The values will be calculated by the "Retrieve" process. |
| <NormalizedStructure/> | No | Structure | No | No |  |
| <UseNormalization/> | No | String | No | No |  |
| </Structure> | No | - | - | - |  |
| </BaseFragment> | No | - | - | - |  |
| <FragmentList> | No | - | - | - |  |
| <Fragment> | Yes | - | - | - |  |
| <CompoundFragmentID/> | Yes | 0 | Yes | No | Not used in Temporary context |
| <FragmentID/> | No | > 0 | No | No |  |
| </Fragment> | Yes | - | - | - |  |
| </FragmentList> | No | - | - | - |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The “name” attribute represent a name of a Database field. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <IdentifierList> | No | - | - | - |  |
| <Identifier> | Yes | - | - | - |  |
| <ID/> | Yes | 0 | Yes | No | Not used in Temporary context |
| <IdentifierID/> | No | > 0 | No | No |  |
| <InputText/> | No | String | Yes | No |  |
| </Identifier> | Yes | - | - | - |  |
| </IdentifierList> | No | - | - | - |  |
| </Compound> | No | - | - | - |  |
| </Component> | No | - | - | - |  |
| </ComponentList> | No | - | - | - |  |
| <BatchList> | No | - | - | - |  |
| <Batch> | No | - | - | - |  |
| <BatchID/> | No | 0 | No | No |  |
| <BatchNumber/> | No | 0 | Yes | No |  |
| <FullRegNumber/> | Yes | - | Yes | No | Not used in Temporary context |
| <DateCreated/> | No | Date | No | Yes |  |
| <PersonCreated/> | No | > 0 | No | No |  |
| <PersonRegistered/> | No | > 0 | No | No |  |
| <DateLastModified/> | No | Date | No | Yes |  |
| <StatusID /> | No | > 0 | Yes | No |  |
| <ProjectList> | No | - | - | - |  |
| <Project> | yes | - | - | - |  |
| <ID/> | No | 0 | Yes | No | Not used in Temporary context |
| <ProjectID/> | No | > 0 | No | No |  |
| <OrderIndex/> | No | >0 | No | No |  |
| </Project> | Yes | - | - | - |  |
| </ProjectList> | No | - | - | - |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The “name” attribute is el field name. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <BatchComponentList> | No | - | - | - |  |
| <BatchComponent> | No | - | - | - |  |
| <ID/> | No | 0 | Yes | No | Not used in Temporary context |
| <BatchID/> | No | 0 | Yes | No |  |
| <MixtureComponentID/> | No | 0 | Yes | No | Not used in Temporary context |
| <CompoundID/> | No | 0 | Yes | No |  |
| <ComponentIndex/> | No | >= 0 | No | No | It is a increasing value starting from 0 with the first compound. This value has a correspondence with the CompoundIndex tag into the Component tag. In this way the Batch data are associated with a compound. |
| <OrderIndex/> | No | > 0 | No | No |  |
| <PropertyList> | No | - | - | - |  |
| <Property name="" /> | Yes | String | Yes | No | The Name attribute is el field name. The property value is the field value. |
| </PropertyList> | No | - | - | - |  |
| <BatchComponentFragmentList> | No | - | - | - |  |
| <BatchComponentFragment> | Yes | - | - | - |  |
| <ID/> | No | 0 | Yes | No | Not used in Temporary context |
| <FragmentID/> | No | 0 | No | No |  |
| <Equivalents/> | No | 0 | Yes | No |  |
| <OrderIndex/> | No | > 0 | No | No |  |
| </BatchComponentFragment> | Yes | - | - | - |  |
| </BatchComponentFragmentList> | No | - | - | - |  |
| </BatchComponent> | No | - | - | - |  |
| </BatchComponentList> | No | - | - | - |  |
| </Batch> | No | - | - | - |  |
| </BatchList> | No | - | - | - |  |
| </MultiCompoundRegistryRecord> | No | - | - | - |  |
|  |  |  |  |  |  |

**Update procedure (**UpdateMultiCompoundRegTmp**)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Attribute Implemented by each tag** | | |  |
| **XML** | **Tag Optional** | **Expected value** | **Optional Value in update process** | **Update** | **Insert** | **Delete** | **Comments** |
| <MultiCompoundRegistryRecord> | No | - | - | No | No | No |  |
| <ID/> | No | > 0 | No | No | No | No |  |
| <DateCreated/> | No | Date | Yes | Yes | No | No |  |
| <DateLastModified/> | No | Date | Yes | Yes | No | No | This value is set by the package when the Registry is modified |
| <PersonCreated/> | No | > 0 | Yes | No | No | No |  |
| <StructureAggregation/> | No | Structure | Yes | Yes | No | No |  |
| <Approved/> | No | String | Yes | No | No | No |  |
| <RegNumber> | No | - | - | No | No | No |  |
| <RegID/> | No | 0 | No | No | No | No | Not used in Temporary context |
| <SequenceNumber/> | No | 0 | Yes | No | No | No | Not used in Temporary context |
| <SequenceID/> | No | > 0 | Yes | No | No | No | Not used in Temporary context but the value will be used to build or validate the RegNumber value in in Definitive Context |
| <RegNumber/> | No | null | Yes | No | No | No | Not used in Temporary context |
| </RegNumber> | No | - | - | - | - | - |  |
| <PropertyList> | No | - | - | No | No | No | To update the child tags isn’t necessary set the update attribute to yes |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The name attribute is el field name. The property value is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <IdentifierList> | No | - | - | Yes | No | No | To update all child tags is necessary set the update attribute to yes |
| <Identifier> | Yes | - | - | No | Yes | Yes | To update the child tags isn’t necessary set the update attribute to yes |
| <IdentifierID/> | No | > 0 | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| <Value/> | No | String | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| <InputText/> | No | String | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| </Identifier> | Yes | - | - | - | - | - |  |
| </IdentifierList> | No | - | - | - | - | - |  |
| <ProjectList> | No | - | - | Yes | No | No | To update all child tags is necessary set the update attribute to yes |
| <Project> | Yes | - | - | No | Yes | Yes | To update the child tags isn’t necessary set the update attribute to yes |
| <ProjectID/> | No | > 0 | Yes | No | No |  | To update this tags isn’t necessary set the update attribute to yes |
| <OrderIndex/> | No | > 0 | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| </Project> | No | - | - | - | - | - |  |
| </ProjectList> | No | - | - | - | - | - |  |
| <ComponentList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Component> | No | - | - | No | Yes | Yes | If the "Insert" attribute is equal "yes" then a new Compound is creates and all the data relative to the compound are created too (Fields,Fragments,Identifieds).  To update the child tags is not necessary set the update attribute to yes. |
| <ID/> | Yes | 0 | Yes | No | No | No | Not used |
| <ComponentIndex/> | No | < 0 | No | No | No | No | It is a decreasing value, starting from -1 with the first compound. This value has a correspondence with the CompoundIndex tag into the BathComponent tag. In this way the Batch Data are associated with a compound. |
| <Percentage/> | No | >=0 | Yes | No | No | No |  |
| <Compound> | No | - | - | No | No | No |  |
| <CompoundID/> | No | > 0 | No | No | No | No |  |
| <DateCreated/> | No | Date | Yes | No | No | No |  |
| <DateLastModified/> | No | Date | Yes | No | No | No | This value is set by the package when the Compound is modified |
| <PersonCreated/> | No | > 0 | Yes | No | No | No |  |
| <PersonRegistered/> | No | 0 | Yes | Yes | No | No |  |
| <Tag/> | No | String | Yes | Yes | No | No |  |
| <RegNumber> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <RegID/> | No | 0 | Yes | No | No | No | Not used in Temporary context |
| <SequenceNumber/> | No | 0 | Yes | No | No | No | Not used in Temporary context |
| <SequenceID/> | No | > 0 | Yes | No | No | No | Not used in Temporary context but the value will be used to build or validate the RegNumber value in in Definitive Context |
| <RegNumber/> | No | Null | Yes | No | No | No | Not used in Temporary context |
| </RegNumber> | No | - | - | - | - | - |  |
| <BaseFragment> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Structure> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <StructureID/> | No | 0 | Yes | No | No | No | If the value is zero then a new structure will be created. If the value is less than zero then the structure will not be created. In this last case the structure should exist in Database because it will be used/referenced for the Compound. |
| <StructureFormat/> | No | String | Yes | No | No | No | Not used yet |
| <Structure molWeight="" formula="" /> | No | Structure | Yes | Yes | No | No | The molWeight and formula attribute are saved in null. The values will be calculated by the "Retrieve" process. |
| <NormalizedStructure/> | No | Structure | Yes | Yes | No | No |  |
| <UseNormalization/> | No | String | Yes | Yes | No | No |  |
| </Structure> | No | - | - | - | - | - |  |
| </BaseFragment> | No | - | - | - | - | - |  |
| <FragmentList> | No | - | - | Yes | No | No | To update all child tags is necessary set the update attribute to yes |
| <Fragment> | Yes | - | - | No | Yes | Yes | To update the child tags is not necessary set the update attribute to yes A Fragment is inserted when the attribute "Insert" is equal yes in the Fragment tag or in the Component tag |
| <CompoundFragmentID/> | No | 0 | Yes | No | No | No | Not used in Temporary context |
| <FragmentID/> | No | > 0 | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| </Fragment> | Yes | - | - | - | - | - |  |
| </FragmentList> | No | - | - | - | - | - |  |
| <PropertyList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The name attribute is el field name. The property value represents is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <IdentifierList> | No | - | - | Yes | No | No | To update all child tags is necessary set the update attribute to yes |
| <Identifier> | Yes | - | - | No | Yes | Yes | To update the child tags isn’t necessary set the update attribute to yes  A Identifier is inserted when the attribute "Insert" is equal yes in the Identifier tag or in the Component tag |
| <IdentifierID/> | No | > 0 | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| <Value/> | No | String | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| <InputText/> | No | String | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| </Identifier> | Yes | - | - | - | - | - |  |
| </IdentifierList> | No | - | - | - | - | - |  |
| </Compound> | No | - | - | - | - | - |  |
| </Component> | No | - | - | - | - | - |  |
| </ComponentList> | No | - | - | - | - | - |  |
| <BatchList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <Batch> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <BatchID/> | No | > 0 | No | No | No | No |  |
| <BatchNumber/> | No | > 0 | Yes | Yes | No | No |  |
| <FullRegNumber/> | No | String | Yes | Yes | No | No |  |
| <DateCreated/> | No | Date | Yes | Yes | No | No |  |
| <PersonCreated/> | No | > 0 | Yes | Yes | No | No |  |
| <PersonRegistered/> | No | > 0 | Yes | Yes | No | No |  |
| <DateLastModified/> | No | Date | Yes | No | No | No |  |
| <StatusID /> | No | > 0 | Yes | Yes | No | No |  |
| <ProjectList> | No | - | - | Yes | No | No | To update all child tags is necessary set the update attribute to yes |
| <Project> | Yes | - | - | No | Yes | Yes | To update the child tags isn’t necessary set the update attribute to yes |
| <ID/> | No | 0 | No | No | No | No | Not used in Temporary context |
| <ProjectID/> | No | > 0 | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| <OrderIndex/> | No | > 0 | Yes | No | No | No |  |
| </Project> | Yes | - | - | - | - | - |  |
| </ProjectList> | No | - | - | - | - | - |  |
| <IdentifierList> | No | - | - | Yes | No | No | To update all child tags is necessary set the update attribute to yes |
| <Identifier> | Yes | - | - | No | Yes | Yes | To update the child tags isn’t necessary set the update attribute to yes |
| <ID/> | No | 0 | No | No | No | No | Not used in Temporary context |
| <IdentifierID/> | No | > 0 | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| <Value/> | No | String | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| <InputText/> | No | String | Yes | No | No | No | To update this tags isn’t necessary set the update attribute to yes |
| </Identifier> | Yes | - | - | - | - | - |  |
| </IdentifierList> | No | - | - | - | - | - |  |
| <PropertyList> | No | - | - | No | No | No |  |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The Name attribute is el field name. The property value represents is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <BatchComponentList> | No | - | - | No | No | No | To update the child tags is not necessary set the update attribute to yes |
| <BatchComponent> | No | - | - | No | No | No | . |
| <ID/> | No | 0 | No | No | No | No | Not used in Temporary context |
| <BatchID/> | No | > 0 | No | No | No | No |  |
| <MixtureComponentID/> | No | 0 | No | No | No | No | Not used in Temporary context |
| <CompoundID/> | No | > 0 | No | No | No | No |  |
| <ComponentIndex/> | No | >= 0 | No | No | No | No | It is a increasing value starting from 0 with the first compound. This value has a correspondence with the CompoundIndex tag into the Component tag. In this way the Batch data are associated with a compound. |
| <OrderIndex/> | No | > 0 | Yes | No | No | No |  |
| <PropertyList> | No | - | - | No | No | No |  |
| <Property name="" /> | Yes | String | Yes | Yes | No | No | The name attribute is el field name. The property value represents is the field value. |
| </PropertyList> | No | - | - | - | - | - |  |
| <BatchComponentFragmentList> | No | - | - | Yes | No | No |  |
| <BatchComponentFragment> | Yes | - | - | No | No | No |  |
| <ID/> | No | 0 | No | No | No | No | Not used in Temporary context |
| <FragmentID/> | No | > 0 | Yes | No | No | No |  |
| <Equivalents/> | No | > 0 | Yes | No | No | No |  |
| <OrderIndex/> | No | > 0 | Yes | No | No | No |  |
| </BatchComponentFragment> | Yes | - | - | - | - | - |  |
| </BatchComponentFragmentList> | No | - | - | - | - | - |  |
| </BatchComponent> | No | - | - | - | - | - |  |
| </BatchComponentList> | No | - | - | - | - | - |  |
| </Batch> | No | - | - | - | - | - |  |
| </BatchList> | No | - | - | - | - | - |  |
| </MultiCompoundRegistryRecord> | No | - | - | - | - | - |  |