Question

Nauris Gruduls · Mar 12, 2020

How to create 'List of Objects' in a Data Transformation?

In my Data Transformation, the Target class needs to create a new List of objects (ListOfObj), depending on some conditions of Source class (Source/Target are completely distinct/different classes).

I experimented with Lists of 'primitive' data types (ListOfDT), and I could add new %String items (as an example) to a List of %String property, with "append" action in DT.

Does anyone have an example, or guidance, how to create new Lists of Objects in data transformation?

For example, if I have a 'container' class like this, it works:

```
Class Json.SalesOrderContainer Extends (%RegisteredObject,%XML.Adaptor)
{
    Property SalesOrderArray as List of %String; this works with append
```

```xml
<?xml version="1.0" ?>
<!-- type: Json.InvoiceRequestMessageXML  id: 1110 -->
<InvoiceRequestMessageXML xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:s="http://www.w3.org/2001/XMLSchema">
    <SalesOrderContainer>
        <SalesOrderContainerItem>foo</SalesOrderContainerItem>
        <SalesOrderContainerItem>bar</SalesOrderContainerItem>
    </SalesOrderContainer>
    <SampleString></SampleString>
</InvoiceRequestMessageXML>
```

However with List of Objects, it does not. It creates 'empty' Objects of the class, which is specified for List. Here is the class structure:

```
Class Json.SalesOrderContainer Extends (%RegisteredObject,%XML.Adaptor)
{
    Property SalesOrderArray as List of SalesOrder;
```

Object class:

```
Class Json.SalesOrder Extends (%RegisteredObject,%XML.Adaptor)
{
    Property Reference As %String;

    Property SomeOtherReference As %String;
}
```

Observed, that SalesOrder elements are empty, and have no properties (Reference\SomeOtherReference), in Visual Trace:

```xml
<?xml version="1.0" ?>
<!-- type: Json.InvoiceRequestMessageXML  id: 1103 -->
<InvoiceRequestMessageXML xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:s="http://www.w3.org/2001/XMLSchema">
    <SalesOrderContainer>
        <SalesOrder xsi:nil="true"></SalesOrder>
        <SalesOrder xsi:nil="true"></SalesOrder>
    </SalesOrderContainer>
    <SampleString></SampleString>
</InvoiceRequestMessageXML>
```

I tried adding new SalesOrder elements with Code action in the Data Transformation, and also with For Each action

Appreciate any help!

-Nauris

#DTL #Mapping #XML #InterSystems IRIS

Source URL:https://community.intersystems.com/post/how-create-list-objects-data-transformation