

## Question

[Kurro Lopez](#) · Aug 25, 2020

## Search an object in a ListOfObj

Hi all.

I have a reponse message that has a property of the type %Collection.ListOfObj and I need to search for an item in this list. Let me show you. The Response message has a collection of type LabCenter

```
Class ListLabCenter Extends Ens.Response
```

```
{
```

```
Property ListCenter As list Of LabCenter;
```

```
Storage Default
```

```
{
```

```
<Data name="ListLabCenterDefaultData">
```

```
<Subscript>"ListLabCenter"</Subscript>
```

```
<Value name="1">
```

```
<Value>ListCenter</Value>
```

```
</Value>
```

```
</Data>
```

```
<DefaultData>ListLabCenterDefaultData</DefaultData>
```

```
<Type>%Library.CacheStorage</Type>
```

```
}
```

```
}
```

```
Class LabCenter Extends (%SerialObject, %XML.Adaptor)
```

```
{
```

```
Property LabId As %String;
```

```
Property Center As %String;
```

```
Property Code As %String;
```

```
Storage Default
```

```
{
```

```
<Data name="LabCenter">
```

```
<Value name="1">
```

```
<Value>LabId</Value>
```

```
</Value>
```

```

<Value name="2">
<Value>Center</Value>
</Value>
<Value name="3">
<Value>Code</Value>
</Value>
</Data>
<State>LabCenterState</State>
<StreamLocation>^DKV.LaboCe4177.LabCenterC486S</StreamLocation>
<Type>%Library.CacheSerialState</Type>
}
}

```

I retrieve the message that I want to evaluate

```

> set obj=##class(ListLabCenter).%OpenId(1)
> zw obj
obj=<OBJECT REFERENCE>[2@ListLabCenter]
+----- general information -----
|      oref value: 2
|      class name: ListLabCenter
|      %%OID: $lb("1","ListLabCenter")
|      reference count: 2
+----- attribute values -----
|      %Concurrency = 1 <Set>
+----- swizzled references -----
|      i%ListCenter = ""
|      i%ListCenter(1) = $lb($lb("A08829848","A088298480001",""))
|      i%ListCenter(2) = $lb($lb("A08829848","A088298480002",""))
|      i%ListCenter(3) = $lb($lb("A08829848","A088298480003",""))
|      i%ListCenter(4) = $lb($lb("U66700196","U667001960002",""))
|      i%ListCenter(5) = $lb($lb("U66700196","U667001960003",""))
|      r%ListCenter = "1@%Collection.ListOfObj"
|      r%ListCenter(1) = "3@LabCenter"
+-----

```

I have to locate a specific object, so I create an object with the data I want to find

```

> set objFind = ##class(LabCenter).%New()
> set objFind.LabId="A08829848"
> set objFind.Center="A088298480003"
> zw objFind
objFind=<OBJECT REFERENCE>[5@LabCenter]
+----- general information -----
|      oref value: 5
|      class name: LabCenter
|      reference count: 2
+----- attribute values -----

```

```
|           Center = "A088298480003"  
|           Code = ""  
|           LabId = "A08829848"  
+-----
```

I have tried to do the search using the command [\\$LISTFIND](#) but the object is not of type list

```
> w $Listvalid(obj.ListCenter)  
0
```

Then I thought about using the command [Find](#) de %Collection.ListOfObj but I get an error if I try to find the object

How could I locate the item I am looking for in this collection? I want to avoid using a loop and checking the elements one by one because I don't know how many items I'll have.

Regards,  
Francisco López

## UPDATE

This is the real scenario.

There is a laboratory that has several centers where blood tests are performed. But the laboratory also belongs to a group of laboratories that are identified with another laboratory code

Example:

Kurro Laboratory - ID: A000001

Centers:

- KC01
- KC02
- KC03

Evgeny Laboratory - ID: A000002

Centers:

- EC01
- EC02
- EC03

Malaga laboratory group - ID: A000003

Centers:

- 01KC01
- 01KC02
- 02EC01
- 02EC03

When a blood test is performed, the laboratories send the information on which insured person has been tested. This information is stored in a database that is updated daily.

The next day, a process recovers all the records from the previous day and that is when I have to retrieve ONLY those from the Kurro laboratory or those associated with the Malaga Laboratorio group.

To find out which laboratory and center identifier the Kurro laboratory belongs to, I have a table that identifies it. My ESB process retrieves it and that is where I have the data (ListLabCenter)

- (A000001 - KC01)
- (A000001 - KC02)
- (A000001 - KC03)
- (A000003 - 01KC01)
- (A000003 - 02KC01)

As I have to evaluate ALL the records of the previous day (one by one), so I was looking for a way to find the insured's information quickly, filtering only by those of the Kurro laboratory.

Is my problem clearer now?

[#ObjectScript](#) [#Cache](#)

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