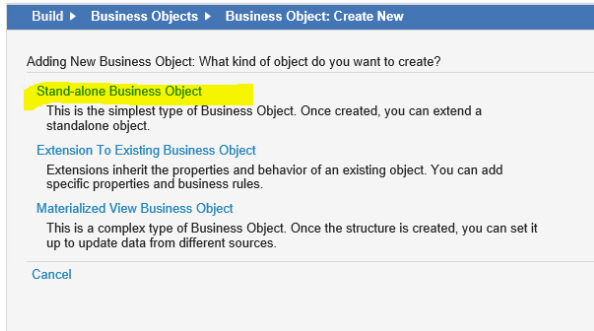


How to import data for many to many relationships?

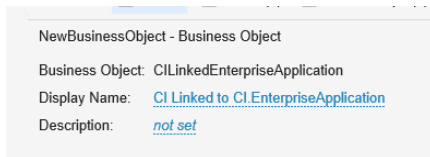
When we want to link objects in two different tables with a many to many relationship we use what we call the FusionLink table. However, this table does not allow us to do a bulk import from an external file like Excel or XML, if this functionality is needed, this kind of relationship would limit our options.

This article demonstrates how to create in an alternate way a many to many relationship using a new "link" table. In this case we chose to link any CI object to any CI.EnterpriseApplication objects, but this example could be useful for any similar combination.

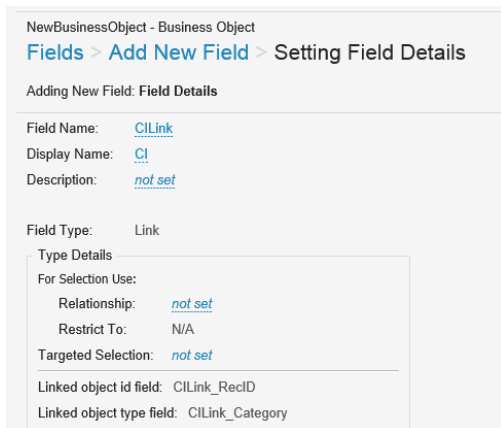
1.- Create a new Stand-alone Business Object



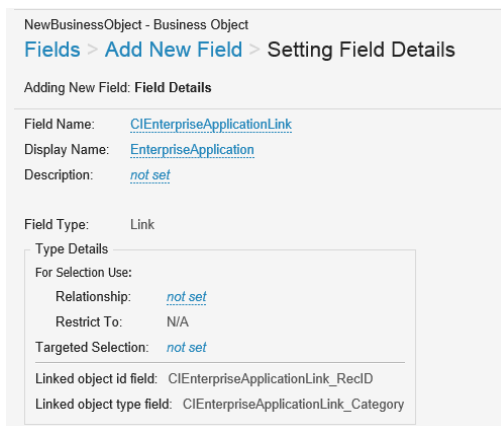
Name it CILinkedEnterpriseApplication



2.- Create a Link field for the CI (the relationship will be defined once created)



3.- Create a Link field for the CI.EnterpriseApplication (the relationship will be defined once created)



4.- Create a relationship to the CI object using the CILink field

NewBusinessObject - Business Object

Relationships > Add New Relationship > Relationship's Details

Relationship Details

Display Name: [CILinkedEnterpriseApplicationAssocCI](#)

Internal Reference Name: [CILinkedEnterpriseApplicationAssocCI](#)

Relation to: [CI](#)

Relationship is Audited:

Full Text Search Enabled:

Prevent Delete when Linked Objects Exist:

<p>This Business Object</p> <p><input type="radio"/> Zero or one</p> <p><input type="radio"/> Exactly one</p> <p><input checked="" type="radio"/> Zero or many</p> <p><input type="radio"/> Many</p>	<p><input checked="" type="radio"/> Associates with</p> <p><input type="radio"/> Contained in</p>	<p>CI</p> <p><input checked="" type="radio"/> Zero or one</p> <p><input type="radio"/> Exactly one</p> <p><input type="radio"/> Zero or many</p> <p><input type="radio"/> Many</p>
<p>CILink</p>	<p><input checked="" type="radio"/> Equals to</p> <p><input type="radio"/> Use Link Table (for many-to-many relationships)</p> <p>N/A</p> <p>Is Asymmetric: <input type="checkbox"/></p>	<p>RecId (Primary Key)</p>

5.- Create a relationship to the CI.EnterpriseApplication object using the CIEnterpriseApplicationLink field

NewBusinessObject - Business Object

Relationships > Add New Relationship > Relationship's Details

Relationship Details

Display Name: [CILinkedEnterpriseApplicationAssocCIEnterpriseApplication](#)

Internal Reference Name: [CILinkedEnterpriseApplicationAssocCIEnterpriseApplication](#)

Relation to: [CIEnterpriseApplication](#)

Relationship is Audited:

Full Text Search Enabled:

Prevent Delete when Linked Objects Exist:

<p>This Business Object</p> <p><input type="radio"/> Zero or one</p> <p><input type="radio"/> Exactly one</p> <p><input checked="" type="radio"/> Zero or many</p> <p><input type="radio"/> Many</p>	<p><input checked="" type="radio"/> Associates with</p> <p><input type="radio"/> Contained in</p>	<p>CIEnterpriseApplication</p> <p><input checked="" type="radio"/> Zero or one</p> <p><input type="radio"/> Exactly one</p> <p><input type="radio"/> Zero or many</p> <p><input type="radio"/> Many</p>
<p>CIEnterpriseApplicationLink</p>	<p><input checked="" type="radio"/> Equals to</p> <p><input type="radio"/> Use Link Table (for many-to-many relationships)</p> <p>N/A</p> <p>Is Asymmetric: <input type="checkbox"/></p>	<p>RecId (Primary Key)</p>

6.- Modify both link fields using the relationships created

Name: [CILink](#)

Display Name: [CI](#)

Description: [not set](#)

Field Type: Link

Type Details

For Selection Use:

Relationship: [CILinkedEnterpriseApplicationAssocCI](#)

Restrict To: [itself](#)

Targeted Selection: [CI \(CILinkedEnterpriseApplicationAssocCI\)](#)

Linked object id field: [CILink_RecID](#)

Linked object type field: [CILink_Category](#)

Name: [CIEnterpriseApplicationLink](#)

Display Name: [EnterpriseApplication](#)

Description: [not set](#)

Field Type: Link

Type Details

For Selection Use:

Relationship: [CILinkedEnterpriseApplicationAssocCIEnterpriseApplication](#)

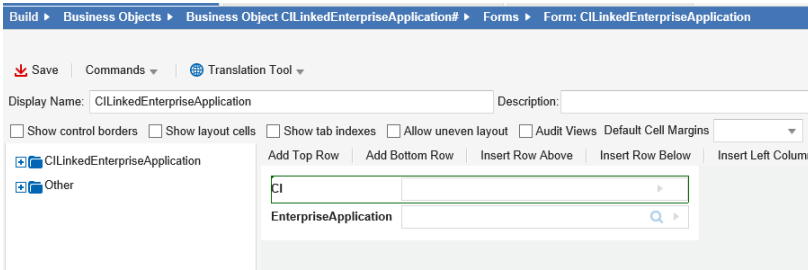
Restrict To: [EnterpriseApplication](#)

Targeted Selection: [CIEnterpriseApplication \(CILinkedEnterpriseApplicationAssocCIEnterpriseApplication\)](#)

Linked object id field: [CIEnterpriseApplicationLink_RecID](#)

Linked object type field: [CIEnterpriseApplicationLink_Category](#)

7.- Add a new form including both Link fields



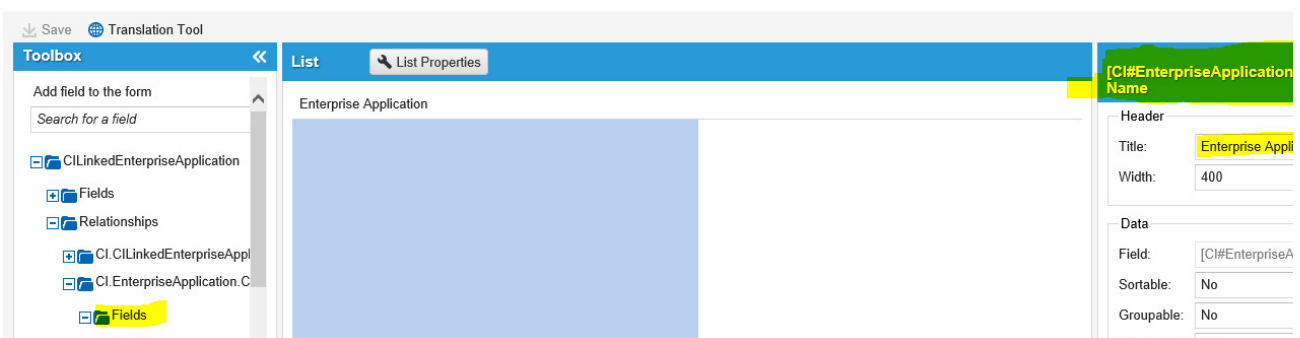
Configure the CI field as in the screenshot

Name	Value
Control Type	Link Field
Disabled Expr...	
Display Field	[CI]Name
Do not sort a...	
Editable	false
Field Name	CIlink
Height	1
Hieararchial...	false
Label	CI
Label Expres...	
Label Pos	On the left
Label Style R...	
Read Only Rule	Always
Required Rule	
Searchable	false
Style	Default
Style Rule	

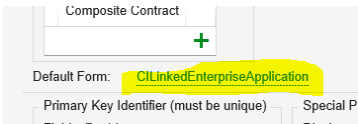
Configure the EnterpriseApplication as in the screenshot

Name	Value
Control Type	Link Field
Disabled Expression	
Display Field	[CI.EnterpriseApplication]Name
Do not sort autocomplete result	
Editable	true
Field Name	CIEnterpriseApplicationLink
Height	1
Hieararchial Picker	false
Label	EnterpriseApplication
Label Expression	
Label Pos	On the left
Label Style Rule	
Read Only Rule	
Required Rule	
Searchable	true
Style	Default
Style Rule	

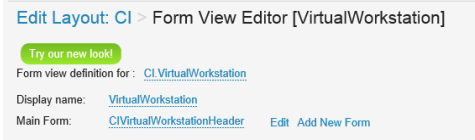
8.- Create a grid including the name of the CI.EnterpriseApplication, using the relationship option on the left. Then rename the title to "Enterprise Application"



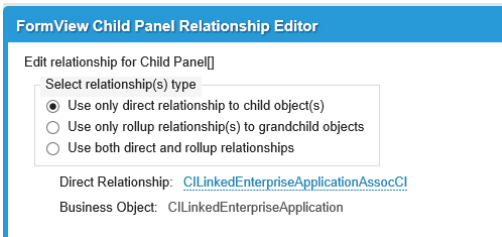
9.- In the Details tab, modify the Default form



10.- From this step I will work with CI.VirtualWorkstation, but it would be similar with other CI objects like Computers, Servers, VirtualServers, etc. Open the CI layouts and select the one that you work with, in my case will be CI. In the "Views in this layout" list, select the formView that you want to modify, in this case VirtualWorkstation



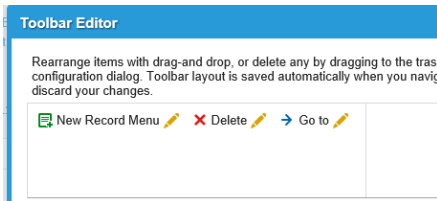
11.- In the bottom of this page, add a new Child Panel and select as Direct Relationship "CILinkedEnterpriseApplicationAssocCI"



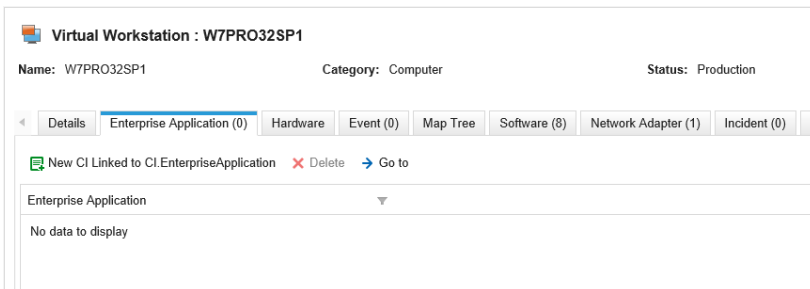
Configure the form and the grid created in the previous steps.



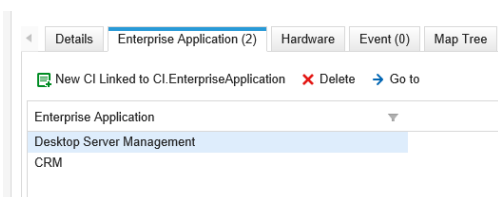
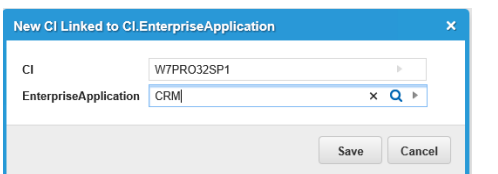
Edit the toolbar as in the screenshot



12.- Opening a VirtualWorkstation, the following tab should be available



13.- Test it creating some records record:



After completing all these steps, you can do a bulk import from an Excel file into this new table CILinkedEnterpriseApplication and you will see the values in this tab.

