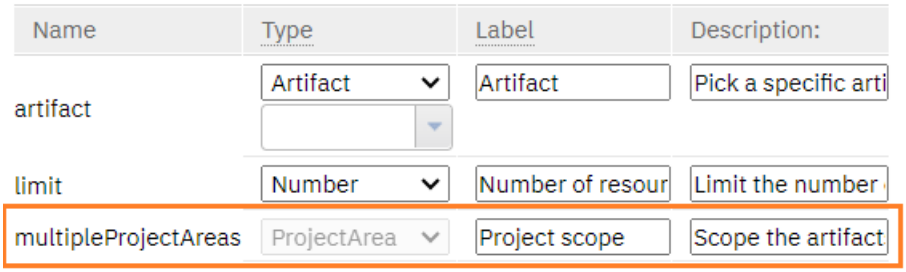
Apply View level project scope to Custom Artifact Elements (CAE) containers

View level project scope is automatically applied to all the Custom Artifact Element which have its support added in CAE's definition. To confirm if a CAE have this support added, following should be part of that CAE definition:

- In "Parameters" section of CAE, a parameter with name "multipleProjectAreas" should be present i.e. like the below screenshot.



- In "SPARQL query" section of CAE, query snippet like following screenshot should be present.

```
## By using this statement, project areas are passed to this query when the query is used in a view.
## Do not remove the parameter "multipleProjectAreas" from this SPARQL.
## Do not change the name of parameter : "multipleProjectAreas".
## Do not remove the VALUES statement or the multipleProjectAreas variable.
$if(multipleProjectAreas)$
 ?resource jazz_process:projectArea ?resource_paUri.
 VALUES (?resource_paUri) {$multipleProjectAreas$}
$endif$
```

Please note:

- For any new CAE created by user, this support will be added by default.
- For almost all the OOTB Custom Artifact Elements as well, this support is added by default.

Update OOTB (existing) CAE definition to add support for applying View level project scope

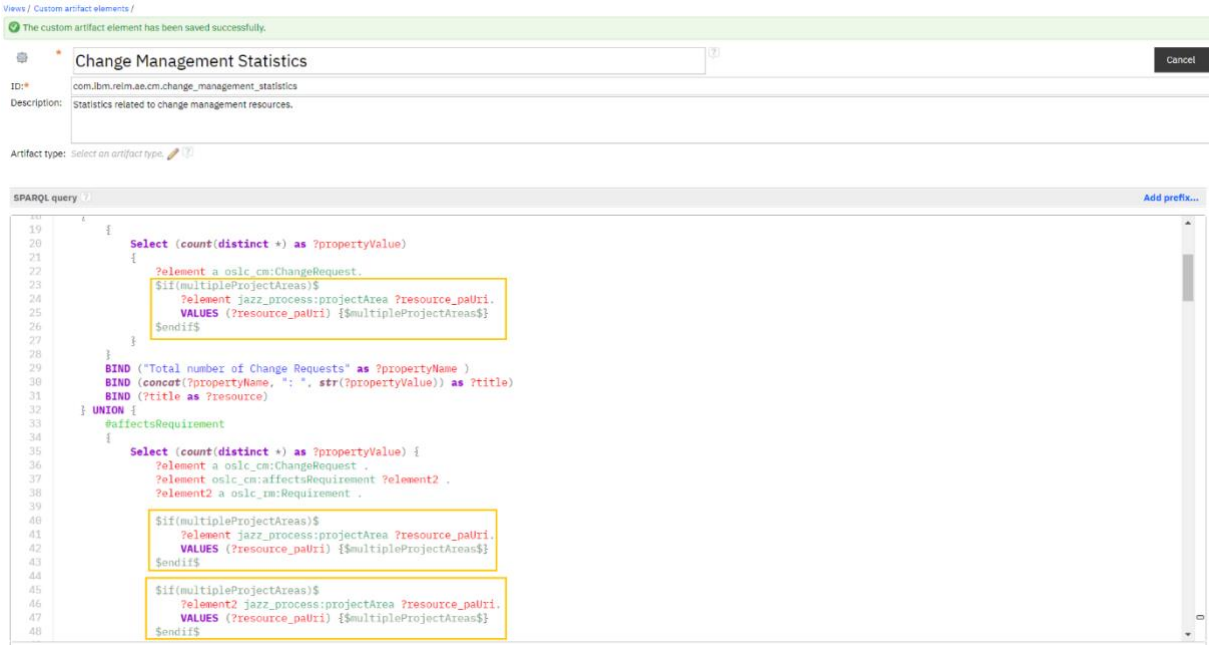
For the OOTB (existing) CAE which do not have support for applying View level project scope to the CAE's SPARQL, following steps can be followed to update the CAE definition:

1. Open the CAE editor page.
2. In the **SPARQL query** section of the CAE, add a SPARQL snippet in the below format.

```
$if(multipleProjectAreas)$
        ?resource jazz_process:projectArea ?resource_paUri.
        VALUES (?resource_paUri) {$multipleProjectAreas$}
$endif$
```

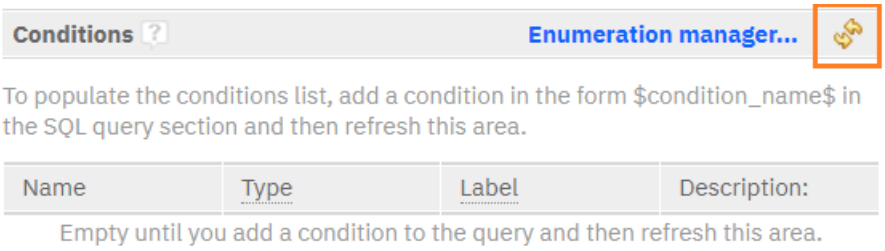
Important:

- The above snippet needs to be added for all the SPARQL query variables which are used to fetch the Artifact's URL.
- The "?resource" must be replaced with the variable name used in that particular SPARQL query to fetch the Artifact's URL.
- **For example**, for the OOTB CAE "Change Management Statistics" we need to add the above snippet at multiple locations for each variable used to fetch Artifact's URL.
- Please refer following screenshot where two out of many instances have been updated to include the above-mentioned query snippet.
    - **Please note** the change in variable name used the in the query snippet.

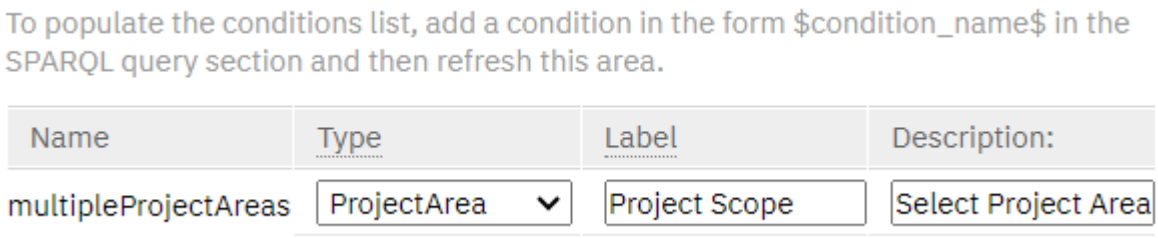


Important: When using this CAE in View and to apply View level project scope to this CAE, please keep the variable name as "multipleProjectAreas" only.

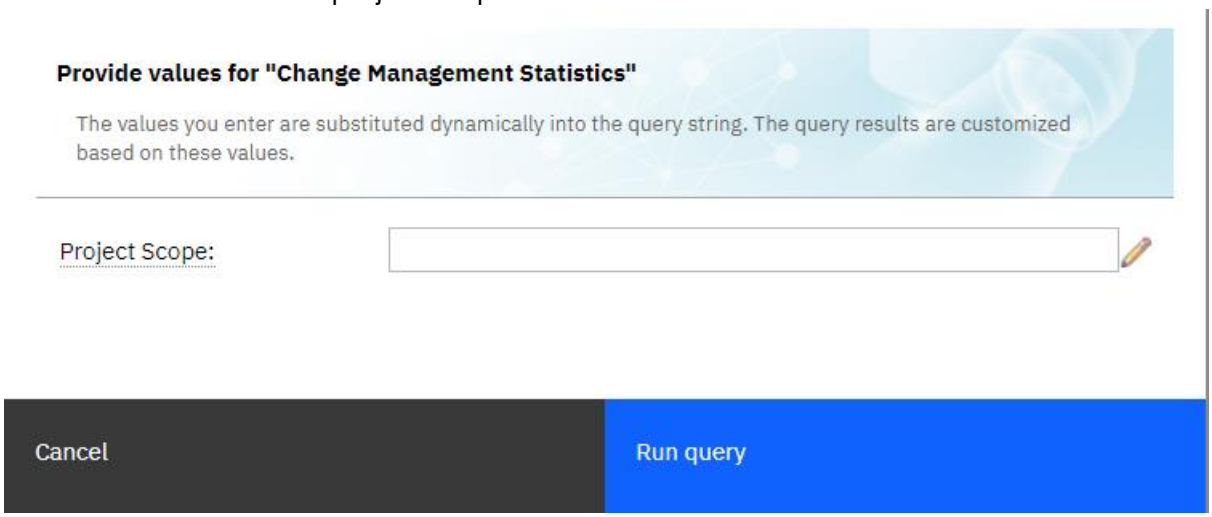
3. In the **Parameters** section of the sidebar, click **Refresh**.



4. ENI will auto populate some of the required fields.
5. For the field "Type", select "ProjectArea" from the drop-down.
6. Enter the required values for other fields which are not auto populated. For example, set the **Label** for the custom condition.



7. Click **Preview** to see the project scope in action.



8. Click on the “Pencil” icon to open the “Select project area” dialog; And select the required project area(s).
9. Click on “Run query” to see the results scoped down to the selected project area(s).
10. Click **Save** to save the changes in CAE.

Note: Please refer following documentation to get help on creating a new Custom Artifact Element. https://www.ibm.com/docs/en/engineering-lifecycle-management-suite/lifecycle-optimization-insights/7.0.3?topic=disciplines-creating-custom-artifact-elements