Related Object: Create Project Management Project (Tips)

You can use the Related Object Management to create a Project Management Project (PPM-PRO) based on a Portfolio Item.

Further information and prerequisites for this functionality are available in the Online Documentation under:
http://help.sap.com/saphelp_ppm610/helpdata/en/49/dc218266be3ef1e10000000a421937/content.htm?frameset=/en/4a/a068b6d2b5f3e10000
00a421937/frameset.htm&current_toc=en/s4/dd18b285a9431b535a16e86e964cc7/plain.htm&node_id=128&show_children=false

Below you can find some code snippets where you can set breakpoints to start the technical analyze.

1) Breakpoint
FM: DFM_DO_CREATE_PROCESSING

```
CALL FUNCTION 'DFM_DO_SYNC_PROCESSING'
  EXPORTING
    is_source_object_context = is_source_object_context
    is_operation_context = is_operation_context
    it_target_templates = it_target_templates
    it_triggering_objects = it_triggering_objects
    it_params = it_params
  IMPORTING
    et_messages = et_messages
    ev_rc = ev_rc.
```

2) Breakpoint
CL_INM_DFM_OBJECT_INTEGRATION
HANDLE_CREATE_REQUEST

* Transforming to object link type based table
  CALL METHOD cl_inm_dfm_repository=>convert_template_assocs

The table LT_TARGET_OBJTYPE_TEMPLATES must be filled with:

```
OBJECT_LINK_TYPE   0INMCPROJECT
GROUPING           PDCP
```

* Do the creation
  CALL METHOD create_target_object

* Create the object links
  CALL METHOD create_object_links

"Do the creation" in Detail:
Depending on whether a "Project Template" for the Project Management Project is selected or not - one of the following methods CREATE_OBJECT_WITHOUT_TEMPLATE or CREATE_OBJECT_WITH_TEMPLATE is called:

```
CASE iv_creation_type.
   * create without template or create on item type (project type is provided)
     WHEN cl_inm_of_co=>sc_create OR
        cl_inm_of_co=>sc_create_on_type.
       CALL METHOD cl_inm_of_project_helper=>create_object_without_template
   * create with template
     WHEN cl_inm_of_co=>sc_create_w_templ.
       CALL METHOD cl_inm_of_project_helper=>create_object_with_template
```

When a "Project Template" is set in the Item then the following breakpoints are relevant:
CL_INM_OF_PROJECT_HELPER
CREATE_OBJECT_WITH_TEMPLATE

CALL METHOD lr_serv_man->do_action
EXPORTING
  iv_bo_name = iv_bo_name_t
  iv_bo_node_name = lv_bo_node_name
  iv_action_name = cl_dpr_api_co=>sc_action_create_pro_w_temp
  it_keys = lt_key
  is_parameters = ls_params.

CL_DPR_APPL_OBJECT_FACTORY
IF_DPR_APPL_OBJECT_FACTORY--CREATE_PROJECT_WITH_TEMPLATE

Here the following steps are necessary to create a new project:
- Carry out basic authorization check
- Load project template
- Copy project
...

Creating a Project Management Project without a Project-Template:

CL_INM_OF_PROJECT_HELPER
CREATE_OBJECT_WITHOUT_TEMPLATE

* create project
CALL METHOD lr_serv_man->create
EXPORTING
  iv_bo_name = cl_dpr_api_co=>sc_bo_cprojects
  iv_bo_node_name = lv_bo_node_name
  it_key_handles = lt_key_handles
  it_data = <lt_data>.

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Create the object links in Detail
CL_INM_DFM_OBJECT_INTEGRATION
CREATE_OBJECT_LINKS

TRY.
  CALL METHOD cl_inm_dfm_repository=>determine_dfm_object_link_type
  ...

Parameters must be:
IS_TARGET_TEMPLATE-GROUPING PDCP
IS_TARGET_TEMPLATE-OBJECT_LINK_TYPE 0INMCPROJECT
ls_object_link
OBJECT_TYPE 0INMCPROJECT
OBJECT_TYPE_SRC 0INMITEM

/RPM/CL_OBJECT_LINK_API
CREATE_OBJECT

  IF lv_category IS NOT INITIAL AND lv_category = /rpm/cl_co=>sc_rpm_obl_category.
  * For creation of external object links
  TRY .
    CALL METHOD cl_dpr_object_link_services=>create_rpm_object_link
  ...

The parameters are:
LV_CATEGORY 0INM_DFM
/RPM/CL_CO=>SC_RPM_OBL_CATEGORY 0XRPM
IS_ATTRIBUTES-OBJECT_LINK_TYPE 0INMCPROJECT
Changes of the Item should be synchronized to Project Management Project at:
CL_INM_OF_PROJECT_HELPER
CHANGE_OBJECT

Info

General Information: Integration Options (PFM)
Tips concerning DFM synchronization can you find in: Decision Flow Management (Tips)

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