

BRF+ : Rule Engine

SAP AG, 2012



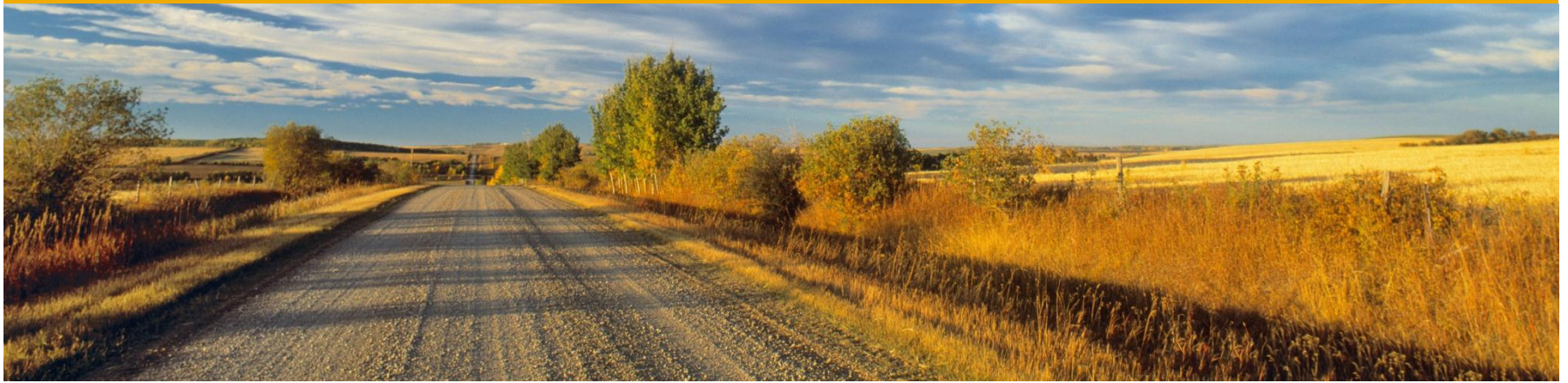
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Agenda

Introduction

Using BOPF models & Example Usage



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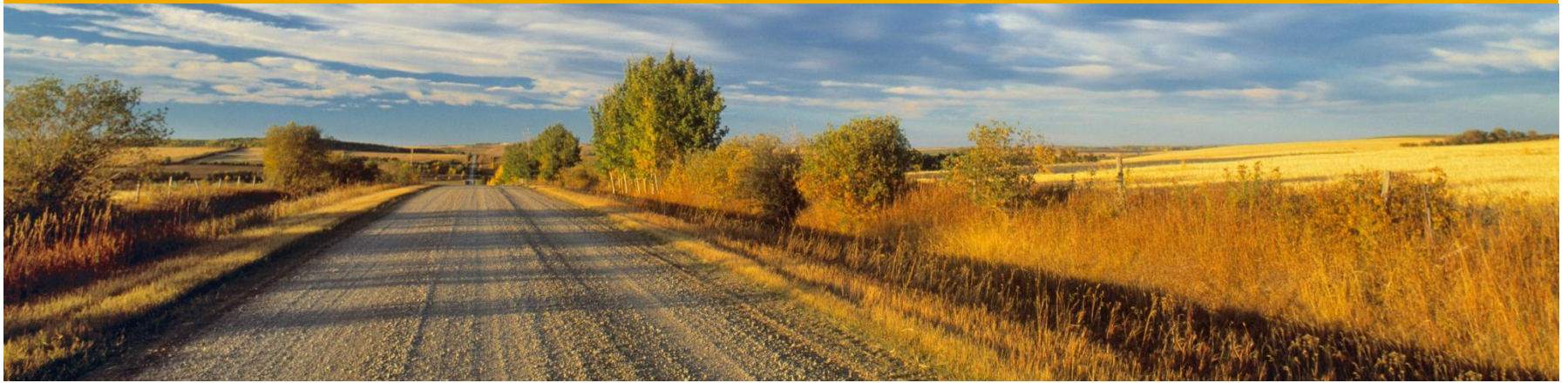
Transaction BRF+

BRF+ is a rule engine developed in ABAP. It provides a comprehensive application programming interface (API) and user interface (UI) for defining and processing business rules. It allows rules to be modelled in an intuitive way.

BRF+ comes with a component-based UI on WebDynpro ABAP that suits both business users and IT experts.

BRF+ supports different kinds of expressions which help achieving different purposes (like decision table, if, loop, formula, calling functions, calling classes, calling services, select from DB etc.)

For further infos please refer [BRF+@SCN](#)



Using BOPF models & Example usage

Expression Type and example usage

The new BRFplus Expression Type `/BOFU/RETRIEVE_BO_DATA` in BRFplus is meant for Service Adapted mass enabled Retrieval of BOPF BO data is functional now. This expression makes data of Application BOs available in BRFplus environment

Expression Type `/BOFU/RETRIEVE_BO_DATA`:

A new expression type is available in BRFplus with which one can create BO Retrieve expressions in BRFplus. This makes Business Object data available in BRFplus environment supporting any kind of rule processing.

Example usage:

Example usage of this expression type can be found in BRFplus application `/BOFU/FDT_TEST`, `/BOFU/FDT_TEST2`. Usage of Test Business Object `/BOFU/TEST_CUSTOMER`, `/BOBF/DEMO_SALES_ORDER` etc. along with service adaptation can be tested in the example BRFplus functions.

Other Reusables around BRFplus:

Data elements `/BOPU/FDT_CATALOG_UUID`, `/BOPU/FDT_APPLICATION_UUID`, `/BOPU/FDT_FUNCTION_UUID` provide conversion exits so that internally they represent UUIDs, externally they represent human readable names of BRFplus objects. These can be used in configuration tables to link to BRFplus objects. They also provide association with appropriate search helps.

Example: BRF call out of BOPF entity

Best performance of calling BRF+ can be achieved via the static method `CL_FDT_FUNCTION_PROCESS=>PROCESS` to which the parameter `CT_NAME_VALUE` should be assigned.

Please note that the reference of context element value must have the right type which you can retrieve per the method `CL_FDT_FUNCTION_PROCESS=>MOVE_DATA_TO_DATA_OBJECT`.

```
DATA lr_is_available          TYPE REF TO boolean.
DATA lr_brf_is_available     TYPE REF TO data.

GET REFERENCE OF iv_is_available INTO lr_is_available.
  cl_fdt_function_process=>move_data_to_data_object(
    EXPORTING
      ir_data          = lr_is_available " Reference to any ABAP Data Object
      iv_function_id   = lv_function_id  " Universal Unique Identifier
      iv_data_object   = 'IS_AVAILABLE'  " Context Name or ID
      iv_timestamp     = lv_timestamp
      iv_trace_generation = abap_false
      iv_has_ddic_binding = abap_true
    IMPORTING
      er_data          = lr_brf_is_available ). " Reference to BRF+ Data Object

ls_name_value-name = 'IS_AVAILABLE'. " #EC NOTEXT
ls_name_value-value = lr_brf_is_available.
INSERT ls_name_value INTO TABLE lt_name_value.

  cl_fdt_function_process=>process(
    EXPORTING
      iv_function_id   = lv_function_id
      iv_timestamp     = lv_timestamp
    IMPORTING
      ea_result        = ev_foo_type
    CHANGING
      ct_name_value    = lt_name_value ).
```




Thank you

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