Class: ZCL_IM__EVENTOS_WF_CA_SP

Status: Active

Implemented interfaces

IF EX WORKBREAKDOWN UPDATE (BAdI-Interface IF EX WORKBREAKDOWN UPDATE)

Attributes

Description: Classe de implementação para implementação add in Z EVENTOS

Instantiation: Public

Final

Not released

Fixed pt.arithmetic

Category: General Object Type

Package: ZBRPS Original lang.: PT Created by: ABAP Created on: 20.01.2013 Last changed by: ABAP Last changed on: 21.02.2014

Forward declaration type grps.

ABAP

Attribute

Private attribute

Attrib.	Cat	Description	Ref. Type	Init.	value
AT_CALLSTACK	Inst	Pilha de chamadas ABAP	TYPE ABAP_CALLSTACK		
AO_TVARV	Stat.	TVARV Retriever	TYPE REF TO ZCL_TVARV_RETRIEVER		

Methods

Public methods

IF_EX_WORKBREAKDOWN_UPDATE~AT_SAVE

```
METHOD if_ex_workbreakdown_update~at_save. ENDMETHOD.
```

IF EX WORKBREAKDOWN UPDATE~BEFORE UPDATE

```
* >>> chamado #958 2 - r.quadros - Justificativa de alteração de status
 lt_container TYPE swrtcont,
       lw container TYPE swr cont.
 FIELD-SYMBOLS: <lv text> TYPE txline,
               <lw_status> TYPE jstat.
* <<< chamado #958 4 - r.quadros
 IF sy-uname = 'WF-BATCH'.
   RETURN.
 ENDIF.
* >>> chamado #958 4 - r.quadros
 lo api ?= me->get api().
 ao_tvarv->get_single( EXPORTING i_vname = 'STSMA J'
                     IMPORTING ex value = lv stsma ).
* <<< chamado #958_2 - r.quadros - Justificativa de alteração de status
* Lê os elementos PEP
 LOOP AT it_wbs_element INTO st_wbs_element
   WHERE stufe = 2.
   CLEAR: 1 obtyp,
          l stsma,
          1 stonr.
   REFRESH lt status.
   Busca os status que estão sendo salvos
   CALL FUNCTION 'STATUS READ'
     EXPORTING
      objnr
                     = st wbs element-objnr
     IMPORTING
                     = l obtyp
       obtyp
                     = l stsma
       stsma
       stonr
                      = 1 stonr
     TABLES
                     = lt status
      status
     EXCEPTIONS
       object_not_found = 1
       OTHERS = 2.
   CHECK sy-subrc EQ 0.
* <<< chamado #958 4 - r.quadros
   IF l stsma <> lv stsma.
     CONTINUE.
   ENDIF.
* >>> chamado #958 4 - r.quadros
   Mantém apenas os status desativados
   DELETE lt status WHERE inact IS INITIAL.
   Mantém apenas os status "Contrato assinado" (E0001) e "Sinal pago" (E0002)
   DELETE lt status WHERE stat NE 'E0001'
                    AND stat NE 'E0002'.
                     AND STAT NE '10005'.
   CHECK lt status[] IS NOT INITIAL.
   LOOP AT lt_status INTO st_status.
     SELECT COUNT( * ) FROM jcds
```

```
UP TO 1 ROWS
       WHERE objnr EQ st_wbs_element-objnr
         AND stat EQ st_status-stat
         AND inact EQ st_status-inact
         AND chgnr GT 1.
     CHECK sy-subrc NE 0.
     Verifica se existe algum usuário parametrizado
      SELECT COUNT( * ) FROM ztbps wf01 * >>> chamado #958 2
        UP TO 1 ROWS
        WHERE posid EQ st_wbs_element-posid
          AND estat EQ st status-stat
          AND ativo EQ 'X'.
      CHECK sy-subrc EQ 0. << chamado #958_2
 >>> chamado #958 2 - r.quadros - Justificativa de alteração de status
      FREE lo retriever.
     CREATE OBJECT lo retriever
       EXPORTING
         p_posid = st_wbs_element-posid
         p_estat = st_status-stat.
      CHECK lo_retriever->are_there_recipients() = abap_true.
* <<< chamado #958_2 - r.quadros - Justificativa de alteração de status
     CLEAR: l_object_type,
            1 object key.
      l object type = 'Z CA SP'.
     CONCATENATE st wbs element-pspnr st wbs element-poski
        INTO 1 object key.
      CASE st_status-stat.
       WHEN 'E0001'. " Contrato assinado
l_event = 'Assinado'.
       WHEN 'E0002'. " Sinal Pago
                    = 'Pago'.
         l event
       WHEN OTHERS.
         CONTINUE.
     ENDCASE.
* >>> chamado #958_2 - r.quadros - Justificativa de alteração de status
     CREATE DATA dref TYPE txline.
     ASSIGN dref->* TO <lv text>.
      CASE abap true.
       WHEN sy-batch.
         <lv text> = 'Processamento em background'(002).
         APPEND < lv text> TO lt text.
       WHEN me->was_called_by( 'SAPLCNIF_STATUS_2054' ).
         <lv text> = 'Processamento por BAPI'(003).
         APPEND < lv text> TO lt text.
       WHEN OTHERS.
         lt_text = me->get_justification().
     ENDCASE.
 << chamado #958_2 - r.quadros - Justificativa de alteração de status</p>
      CALL FUNCTION 'SAP_WAPI_CREATE_EVENT' >>> chamado #958_2
        EXPORTING
           object type = 1 object type
           object key = 1 object key
           event = 1 event
           commit work = space. <<< chamado #958 2</pre>
```

1

```
* >>> chamado #958 2 - r.quadros - Justificativa de alteração de status
     lw container-element = 'Justification'.
     LOOP AT lt_text ASSIGNING <1v_text>.
       lw_container-value = <lv_text>.
       APPEND lw container TO lt container.
     ENDLOOP.
     TRY .
         pt_container = lt_container ).
       CATCH cx bapi error.
         CONTINUE.
     ENDTRY.
* <<< chamado #958 2 - r.quadros - Justificativa de alteração de status
   ENDLOOP.
 ENDLOOP.
* >>> chamado #958_2 - r.quadros - Justificativa de alteração de status
 FREE: lo api, lo retriever.
* <<< chamado #958_2 - r.quadros - Justificativa de alteração de status
ENDMETHOD.
```

CLASS CONSTRUCTOR

Description: CLASS_CONSTRUCTOR Static method

Private methods

GET API

Description: Provides an API calls mediator. Instance mthd

Returning parameter

SET CALLSTACK

```
Description: Updates the call stack to its current status.
```

Instance mthd

WAS CALLED BY

 $Description: Returns \ TRUE \ if \ the \ argument \ is \ in \ the \ call \ stack.$

Instance mthd

Importing parameter

```
P REPID TYPE SYREPID (Programa ABAP, programa básico atual)
```

Returning parameter

GET JUSTIFICATION

Description: Returns the Justification text.

Static method

Returning parameter

```
'É necessário que você justifique a alteração de status.'(005).
 ls text2 = 'Deseja cancelar e perder as alterações?'(006).
 create OBJECT lo api.
 CLEAR rt_text.
 WHILE rt text IS INITIAL .
    rt_text = lo_api->get_user_text( lv_title ).
    IF rt text is INITIAL.
     CLEAR lv answer.
        lv_answer = lo_api->cancelling_decision( p_text1 = ls_text1
                                                 p_text2 = ls_text2
                                                 p title = ls title ).
     CATCH cx bapi error.
       CONTINUE.
     ENDTRY.
      IF lv answer = '1'.
       free lo api.
       LEAVE to CURRENT TRANSACTION AND SKIP FIRST SCREEN.
   ENDIF.
 ENDWHILE.
 free lo_api.
*} INSERT
endmethod.
```

Redefined Methods

Local Types

```
*"* local classes for public class ZCL IM EVENTOS WF CA SP
*"* use this source file for any type declarations you need
*"* in your method implementation
```

Local class definitions

```
*{ INSERT
* Class LCL API
* OVERVIEW: Objects of this class mediates APIs calls. It aims to
            isolate this development from external dependencies, as
            might be desirable in tests.
            The instances of this object is provided by the private
            method GET API of the main class
             (ZCL IM WF US ST RL JUSTIF). By redefining the method
            GET API one can provide appropriated stubs, which redefine
            the desired methods of LCL API, instead of calling the
            real API.
CLASS 1cl api DEFINITION.
 PUBLIC SECTION.
 METHODS: status read IMPORTING p objnr TYPE j objnr
   RETURNING VALUE (rt status) TYPE tt jstat
   RAISING cx bapi error,
```

```
* Method STATUS READ
*-----*
* REQUIRES: The object number must be provided.
* EFFECTS.: If the API processing fails, returns exception type
     CX BAPI ERROR, otherwise returns a table with status data.
*-----*
* -> P_OBJNR Object number.
* <- RT_STATUS Table type of JSTAT.</pre>
       RETURNING VALUE(rt text) TYPE catsxt longtext itab,
*_____*
* Method GET_USER_TEXT
*-----*
* REQUIRES: The title of the pop up window must be provided.
* EFFECTS.: Returns a table with the lines of the text provided by user
   in a pop up for text edition.
*-----*
* -> P_TITLE The text to be shown as pop_
* <- RT_TEXT The text typed by the user.
             The text to be shown as pop_up.
      pt container TYPE SWRTCONT OPTIONAL
                RAISING cx bapi error,
                _____*
* Method RAISE EVENT
*-----*
* REQUIRES: BOR object type, key and event name related to the event to
 be raised must be provided.
* EFFECTS.: If the API processing fails, returns exception type
       CX BAPI ERROR, otherwise raises the related event.
* MODIFIES: Publishes the BOR event specified in the environment.
* -> P_OBJTY BOR Object Type.
* -> P_OBJKY Object key.
* -> P_EVENT Event name.
* -> PT CONTAINER Information to be passed to the event.
*-----*
       SYSTEM CALLSTACK
              RETURNING VALUE (rt callstack) TYPE ABAP CALLSTACK,
* Method SYSTEM CALLSTACK
*-----*
* EFFECTS.: Returns the call stack.
*-----*
* <- RT_CALLSTACK ABAP Call Stack.
*-----*
       cancelling decision IMPORTING p title TYPE string OPTIONAL
                            p text1 TYPE string OPTIONAL
                            p text2 type string OPTIONAL
                     RETURNING VALUE(r answer) TYPE char01
                     RAISING cx bapi error.
```

```
* Method CANCELLING DECISION
*-----*
* EFFECTS.: If the API processing fails, returns exception type
          CX BAPI ERROR, otherwise shows up a pop up that allows the
          user to decide whether she wants to abort an operation and
         returs her decision.
                             _____*
* -> R_TITEL Title line of dialog box.
* -> R_TEXT1 First line of dialog box.
* -> R_TEXT2 Second line of dialog box.
* <- R ANSWER User decision.
*-----*
ENDCLASS.
                          "lcl api DEFINITION
*-----*
      CLASS lcl api IMPLEMENTATION
*-----*
CLASS lcl api IMPLEMENTATION.
 METHOD status_read.
   CALL FUNCTION 'STATUS READ'
   EXPORTING
    objnr
                   = p_objnr
   TABLES
                    = rt status
     status
   EXCEPTIONS
     object_not_found = 1
     OTHERS
   IF sy-subrc <> 0.
     RAISE EXCEPTION TYPE cx_bapi_error
       EXPORTING
         t100 \text{ msgid} = \text{sy-msgid}
         t100 \text{ msgno} = \text{sy-msgno}
         t100 \text{ msgv1} = \text{sy-msgv1}
         t100 \text{ msgv2} = \text{sy-msgv2}
         t100 \text{ msgv3} = \text{sy-msgv3}
         t100 \text{ msgv4} = \text{sy-msgv4}.
   ENDIF.
                            "STATUS READ
 ENDMETHOD.
 METHOD get user text.
   CALL FUNCTION 'CATSXT SIMPLE TEXT EDITOR'
   EXPORTING
     im title
                        = p title
   CHANGING
    ch text
                        = rt text.
 ENDMETHOD.
 METHOD raise event.
   DATA: lt_msg_data TYPE SWR_MSGTAB,
        lt_return TYPE bapiret2_t,
         lw return TYPE bapiret2.
   FIELD-SYMBOLS < lw msg data > TYPE SWR MSTRUC.
   CALL FUNCTION 'SAP WAPI CREATE EVENT'
   EXPORTING
```

```
object type
                          = p objty
   object_key
                         = p_objky
                         = p_event
   EVENT
   COMMIT WORK
                          = space
 TABLES
   READ TABLE lt_msg_data WITH KEY MSGID = 'E' TRANSPORTING NO FIELDS.
  IF sy-subrc = 0.
   LOOP AT lt_msg_data ASSIGNING <lw_msg_data>.
     lw return-message v1 = <lw msg data>-msgv1.
     lw return-message v2 = <lw msg data>-msgv2.
     lw return-message v3 = <lw msg data>-msgv3.
     lw return-message v4 = <lw msg data>-msgv4.
     MESSAGE ID  <lw msg data>-msgid
     TYPE < lw msg data>-msgty
     NUMBER < lw_msg_data>-msgno
     WITH <lw_msg_data>-msgv1 <lw_msg_data>-msgv2
     <lw msg data>-msgv3 <lw_msg_data>-msgv4
     INTO lw return-MESSAGE.
     APPEND lw return TO lt return.
   RAISE EXCEPTION TYPE cx bapi error EXPORTING
     status = lt return.
 ENDIF.
ENDMETHOD.
METHOD SYSTEM CALLSTACK.
 CALL FUNCTION 'SYSTEM CALLSTACK'
  IMPORTING
    CALLSTACK
                  = rt callstack.
ENDMETHOD.
METHOD cancelling_decision.
 data ls question TYPE string.
 CONCATENATE p text1 p text2 INTO ls question SEPARATED BY space.
 CALL FUNCTION 'POPUP TO CONFIRM'
   EXPORTING
     TITLEBAR
                                = p_title
     text_question
                               = ls question
   IMPORTING
     ANSWER
                                = r answer
   EXCEPTIONS
     TEXT NOT FOUND
                                = 1
     OTHERS
                                = 2.
  IF sy-subrc <> 0.
   RAISE EXCEPTION TYPE cx bapi error
   EXPORTING
     t100 msgid = sy-msgid
     t100 \text{ msgno} = \text{sy-msgno}
     t100 \text{ msqv1} = \text{sy-msqv1}
     t100 \text{ msgv2} = \text{sy-msgv2}
     t100 \text{ msgv3} = \text{sy-msgv3}
```

```
t100_msgv4 = sy-msgv4.
ENDIF.
ENDMETHOD.
ENDCLASS. "lcl_api IMPLEMENTATION

*
* INSERT
Macros

*"* use this source file for any macro definitions you need
*"* in the implementation part of the class
```

Overview

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