

# Setting up Mid-term GPA in Student Lifecycle Management



## Applies to:

This document applies to Student Lifecycle Management EHP 3. For more information, visit the [Higher Education & Research homepage](#).

## Summary

This document describes how to set up Mid-term GPAs.

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## Computing a Mid-Term GPA

This procedure actually will allow you to define Performance Indices for ANY sub-appraisal type, including Mid-Term GPA. Here I specifically describe the process to set it up for GPA, but you could also do this for other Performance Indices.

### Step 1: Set up a Performance Index Parameter for the Appraisal Type

In the IMG, go to *CM* → *CM Master Data* → *Performance Indices* → *Define Parameters for Performance Indices*. Set up the following entry:

The screenshot shows the SAP IMG interface for defining parameters. The main title is "Change View 'Parameters for Performance Indices, Filters, and Condi...". The parameter field is set to "ZAPPRAISALTYPE". Below, a table displays the configuration details:

Parameters for Performance Indices, Filters, and Conditions	
Parameter	Appraisal Element Type
Structure	PIQAGR_APPRAISAL
Component name	AGRTYPE

## Step 2: Set up a Performance Index Filter which uses this Parameter

In the IMG, go to *CM → CM Master Data → Performance Indices → BAdi: Performance Index or Subrequirement Filters*. Here, you need to create an implementation and a filter value. Here is an example of a proper set-up:

The screenshot displays the SAP Business Add-In Builder interface for the implementation **Z\_SUBAPPRAISAL**. The main configuration area is divided into several sections:

- Implementation Details:**
  - Implementation Name: Z\_SUBAPPRAISAL\_GRADE (Active)
  - Implementation Short Text: Sub-appraisal Grade Element Filter
  - Definition Name: HRPI000SI2\_PINDX\_FIL
- Attributes / Interface:**
  - General Data:**
    - Package: Z001
    - Language: EN English
    - Last changed by: FAN
    - Last change: 10/02/2007 16:59:01
    - Last activated by: FAN
    - Activated on: 10/02/2007 16:59
  - Type:**
    - Multiple use
    - Filter-Depend. Filter type: PIQSI2\_FILTER  Enhanceable
    - Filter for Performance Index or Subrequirement
  - Defined filters:**
    - Filter: Short text Filter
    - ZSUB: Sub-appraisal element

Here is some sample code for the interface method 'FILTER'. You should test the code against any special grade symbols you want. It also does not calculate the 'Reliability' of the Performance Index. However, it contains the key processing elements you need.

```

method IF_EX_HRPIQ00SI2_PINDX_FIL~FILTER.
  DATA: ls_parameter      TYPE piqsi2_parameter,
        lv_agrtype        TYPE PIQAGRTYPE,
        lv_bookingid      TYPE PIQMODREG_ID,
        lt_bookings       TYPE TABLE OF PIQMODREG_ID,
        ls_assignm        TYPE PIQAGR_ASSIGNM,
        lt_appraisal      TYPE TABLE OF PIQAGR_BUFF_APPRAISAL,
        ls_appraisal      TYPE PIQAGR_BUFF_APPRAISAL,
        lt_return         TYPE table of BAPIRET2,
        lt_modules_in     TYPE hrobject_t,
        lt_modules_out    TYPE table of p1746,
        lv_found          TYPE flag,
        ls_calc_bookings  TYPE piqsi2s_mb.
  * First check to see what Appraisal Type to use
  READ TABLE it_parameter INTO ls_parameter
  WITH KEY param = 'ZAPPRAISALTYPE'.
  IF sy-subrc NE 0.
    MESSAGE e000(hrpiq00si2) RAISING parameter_missing
    WITH 'ZAPPRAISALTYPE' flt_val.
  ELSE.
    lv_agrtype = ls_parameter-param_value.
  ENDIF.
  * Loop through all the booking records
  LOOP AT ct_calc_bookings INTO ls_calc_bookings.
    lv_bookingid = ls_calc_bookings-id.
  * For each booking ID, get all the appraisals
  ls_assignm-modreg_id = lv_bookingid.
  CALL FUNCTION 'HRIQ_AGR_RFC_ASSIGNM_APPR_GETL'
  EXPORTING
    I_ASSIGNM = ls_assignm
  *   I_ELEMENT_DETAIL = ''
  TABLES
    ET_APPRAISAL = lt_appraisal
  *   ET_ELEMENT =
    ET_RETURN = lt_return
  .
  clear lv_found.
  * For each table of appraisals, find the one for the
  * proper appraisal type (e.g. mid-term)
  LOOP AT lt_appraisal into ls_appraisal.
    if ls_appraisal-agrtype = lv_agrtype.
      lv_found = 'X'.
  * When the appraisal type is found, substitute the
  * grade and scale in the academic work structure
      ls_calc_bookings-gradesym = ls_appraisal-gradesym.
      ls_calc_bookings-grade = ls_appraisal-grade.
      ls_calc_bookings-gradescale = ls_appraisal-gradescale.
      ls_calc_bookings-cpgraded = ls_calc_bookings-cpattemp.
      ls_calc_bookings-cpearned = ls_calc_bookings-cpattemp.
    endif.
  ENDLOOP.
  * Here we toss out any bookings where there is no grade entered for

```

```

* the appraisal type we specified. If we found one, we change the
* table that will get passed to the PI Calculation to contain the
* sub-appraisal value.
if lv_found = 'X'.
  MODIFY ct_calc_bookings FROM ls_calc_bookings.
else.
  DELETE ct_calc_bookings.
endif.

clear ls_calc_bookings.
ENDLOOP.
endmethod.

```

### Step 3: Set up a Performance Index which uses your new Filter and Parameter

In the IMG, go to *CM → CM Master Data → Performance Indices → Define Academic Performance Indices*. Create a PI called 'MIDTERM GPA', for example. Assign the PI Calculation of GPA2 to this. You need to use GPA2 rather than GPA1. GPA2 will include modules that have not been completed, which is necessary to capture a subappraisal halfway through the semester. If you have written a different PI Calculation for your GPA (rather than using the delivered one), then you need to create a different version of your own which includes appraisals from non-completed coursework.

- For this new Performance Index, add the FILTER of ZSUB
- For this new Performance Index, add the PARAMETER of ZAPPRAISALTYPE with the Value for your Mid-Term Grade appraisal type.

### Step 4: Add this new Performance Index to the relevant Calculation Points

In the IMG, go to *CM → CM Master Data → Performance Indices → Assign Performance Indices to Calculation Points*. Assign your new PI at least to 'AW01' so that you can see it in the Academic Work Overview in the Student File

### Step 5: You are done!

## Related Content

For more information, visit the [Higher Education & Research homepage](#).

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