

Sending Outlook Appointments and Meeting Requests Directly from ABAP Applications



Applies to:

SAP Net Weaver 7.0, ABAP. For more information, visit the [ABAP homepage](#).

Summary

This sample code demonstrates how to send Appointments or Meetings Requests to e.g. Microsoft Outlook directly from a NetWeaver (6.20 or higher) based system. There are many possible ways to use this, one very logical and helpful use is to automatically send "vacation"/Leave of absence appointments back to a respective employee and his manager after vacation/leave request approval in SAP HCM.

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Summary

Sending eMails from an SAP NetWeaver based system is a very basic Standard functionality.

Sending appointments/meeting requests however, also directly from SAP NetWeaver is something more unique, but it's supported nonetheless and can be very useful e.g. for

- Automatically Sending "vacation"/Leave of absence appointments back to the employee and his manager after vacation/leave request approval
- Automatically sending resubmission/follow-up appointments e.g. x days before contract expiration
- ...

Pre-requisites

Sending out Appointments to e.g. Microsoft Outlook essentially makes use of the ABAP Class CL_APPOINTMENT.

The Class should exist and work on systems SAP NetWeaver 6.20 and higher.

However, you need to make sure that these four notes are applied or obsolete based on a higher release/SP level:

Number	Short Text of Note
1364539	Incorrect display of ICS documents
1353329	iCalendar document that is sent is processed incorrectly
1357483	Title of sent appointment is incorrect
1369864	All-Day Appointment doesn't appear correctly in Outlook

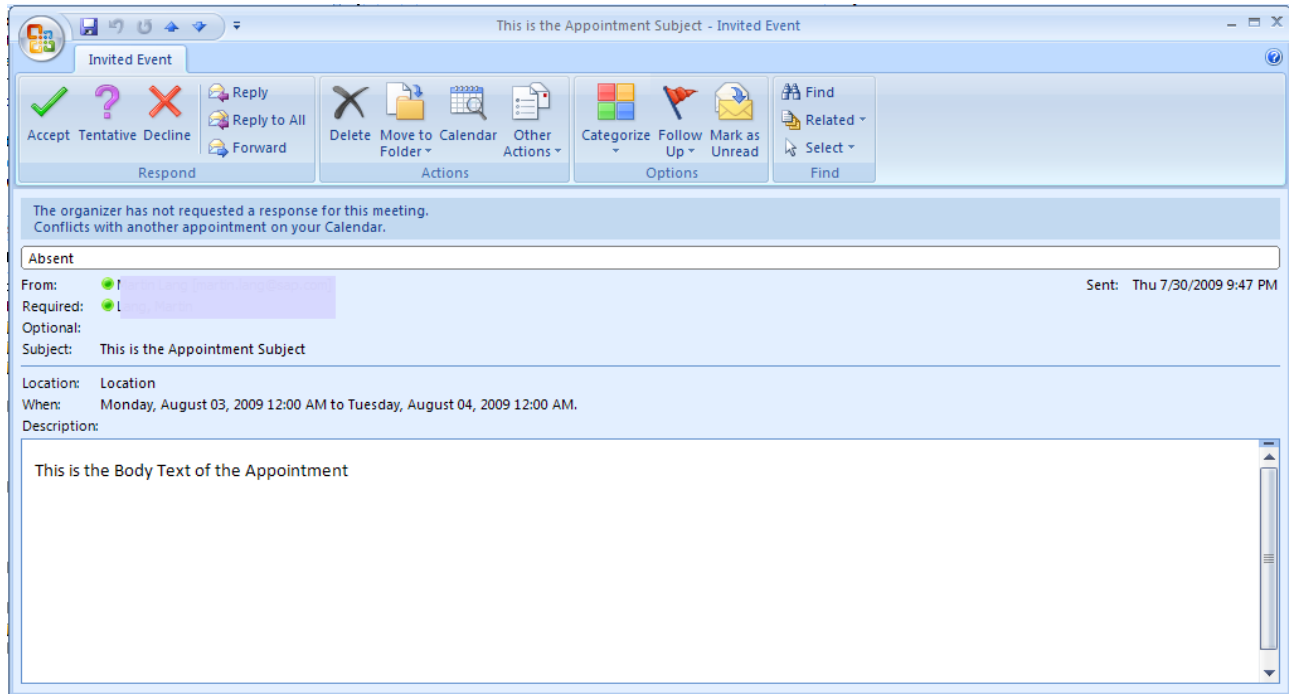
Note: Implement these notes with transaction SNOTE, which automatically checks for the applicability based on your current versions/patchlevels

Overview and Result

The program below is a sample to demonstrate how appointments can be sent touching on many of the available options like:

- multiple attendees
- Define Appointment Subject, Location & Body Long Text
- Specify Start/End Date/Time
- Create All-Day-Appointments
- Define "Show as": Free, Busy etc.

This screenshot represents an appointment sent through the sample code below and received with Microsoft Outlook 2007:



Sample Code

Sample code for demonstration purposes:

```

*&-----*
*& Report  z_appointment_to_outlook.
*&
*&-----*
*&
*&
*&-----*

report  z_appointment_to_outlook.

include <cntn01>.
type-pools: sccon.
data: mail type text40.

* Provide select option to enter multiple attendees
SELECTION-SCREEN: BEGIN OF BLOCK org.
select-options: email for mail no intervals default 'Joe.Doe@test.com'.
SELECTION-SCREEN: END OF BLOCK org.

data lo_appointment type ref to cl_appointment.
data ls_participant type scspart.
data lv_address type swc_object.
data ls_address_container like swcont occurs 0 with header line.
data lt_text type so_txttab.
data ls_text like line of lt_text.
data lv_location like scsappt-room.

```

```

data lo_send_request type ref to cl_bcs.
data lv_sent_to_all type os_boolean.

create object lo_appointment.

* Add multiple attendees
loop at email.
clear ls_participant.
swc_create_object lv_address 'ADDRESS' space.
swc_set_element ls_address_container 'AddressString' email-low.
swc_set_element ls_address_container 'TypeId' 'U'.
swc_call_method lv_address 'Create' ls_address_container.
check sy-subrc = 0.

* * get key and type of object
swc_get_object_key lv_address ls_participant-objkey.
check sy-subrc = 0.
swc_get_object_type lv_address ls_participant-objtype.
check sy-subrc = 0.
move sccon_part_sndmail_with_ans to ls_participant-send_mail.
ls_participant-comm_mode = 'INT'.
lo_appointment->add_participant( participant = ls_participant ).

endloop.

* Sample Appointment for specific date/time
*lo_appointment->set_date( date_from = '20090801'
*                          time_from = '130000'
*                          date_to   = '20090801'
*                          time_to   = '140000'
*                          ).

* Sample Appointment for All-Day-Event
lo_appointment->set_date( date_from = '20090803'
                        date_to   = '20090803'
                        ).

* Make appointment appear "busy"
lo_appointment->set_busy_value( sccon_busy_busy  ).

* Set Location
lo_appointment->set_location_string( 'Location' ).

* Set Organizer
lo_appointment->set_organizer( sy-uname ).

* "Type of Meeting" (value picked from table SCAPPTTYPE)
lo_appointment->set_type( 'ABSENT' ).

* Make this an all day event
lo_appointment->SET_VIEW_ATTRIBUTES( SHOW_ON_TOP = 'X').

* Set Meeting body text
ls_text = 'This is the Body Text of the Appointment'.
append ls_text to lt_text.

```

```
lo_appointment->set_text( lt_text ).

* Set Meeting Subject
lo_appointment->set_title( 'This is the Appointment Subject' ).

* Important to set this one to space. Otherwise SAP will send a not user-
friendly e-mail
lo_appointment->save( send_invitation = space ).

* Now that we have the appointment, we can send a good one for outlook by sw
itching to BCS
lo_send_request = lo_appointment->create_send_request( ).

* don't request read/delivery receipts
lo_send_request->set_status_attributes( i_requested_status   = 'N'
                                       i_status_mail         = 'N'
                                       ).

* Send it to the world
lv_sent_to_all = lo_send_request->send( i_with_error_screen = 'X' ).

commit work and wait.
```

Related Content

For more information, visit the [ABAP homepage](#).

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