

Allow Absence Recording by Specific Admin Users
By: Ashish Harbhajanka

Introduction

A little strange it may sound first time but there are business use case where-in we want to have an absence type which should allow absence recording only if done via some specific users. Those users will be able to apply the absence for everyone but no-one else should be able to record absence apart from them.

The delivered application functionality categorises users into:

- a) Employees
- b) Line Managers
- c) Administrators

But any further bifurcation isn't delivered. This essentially means that an absence type can be enabled only for Administrators but we cannot restrict this to ensure that only ADMIN1, ADMIN2 can record absence against it but not all other Administrators.

In this post, we would demonstrate how we can achieve this functionality through a custom solution.

So, let's get started.

Worked Out Example

We would have to perform a series of setups to achieve this functionality. We can break them down into the following steps:

- 1) Create Absence Type
- 2) Create a Custom Profile Option (Assign Values to Specific Admin Users)
- 3) Create a Custom Table Value Set
- 4) Create a Custom Error Message
- 5) Create a Custom Fast Formula of Global Absence Entry Validation Type
- 6) Attach the Custom Fast Formula to the Absence Type Created at Step 1
- 7) Verify Results

Create Absence Type

We will create a simple Absence Type (say "Special Leave") and the important attribute values are mentioned in table below:

Attribute Name	Attribute Value
Effective Start Date	01-Jan-1951
Name	Special Leave
Pattern	Generic Absence
UOM	Days
Legislative Data Group	US Legislative Data Group
Status	Active
Validation Formula	SPECIAL_LEAVE_VALIDATION
Enable Administrative Updates	Checked

Allow Absence Recording by Specific Admin Users

By: Ashish Harbhajanka

Effective Start Date 1/1/51
Pattern Generic absence
Management User-defined

Effective End Date
Legislation United States

Type Attributes
Plans and Reasons
Display Features
Action Items

General Attributes

Name Special Leave
Description
UOM Days
Legislative Data Group US Legislative Data Group
Status Active

Conversion Formula
Validation Formula SPECIAL_LEAVE_VALIDATION
Eligibility Profile
Legislative Grouping Code

Duration Rules

Minimum Duration Alert None
Maximum Duration Alert None

Partial Day Rule Not allowed
Schedule Hierarchy Start Point Assignment hours details

Open-Ended Absences

Evaluate absences for schedule changes
Evaluation Extension Period 90 Calendar days

Evaluation Period at Absence Entry 365 Calendar days

Absence Record Maintenance

Enable employee updates
Enable manager updates
Enable administrative updates
Lock if completed for employee

Lock if completed for manager
Enable for time card entry
Agreement Selection Not applicable

Create Custom Profile Option

We would need to create a custom profile option (**ALLOW_SPECIALLEAVE_ABSENCE_BOOKING** which would hold 'N' at Site Level and 'Y' for Admin Users HCM_IMPL and HCM_IMPL1 who are authorised to record absence. All other Admin users do not have a entry here and hence they should not be able to record the absence). Details of the profile option are below:

Navigation-> Setup and Maintenance->Manage Profile Options-> Create

Attribute Name	Attribute Value
Profile Option Name	ALLOW_SPECIALLEAVE_ABSENCE_BOOKING
Profile Display Name	Allow Special Leave Absence Booking
Application	Absence Management
Module	Absence Recording
Start Date	1/1/1951
Description	Custom Profile Option created to Allow Special Leave Absence Booking
Profile Option Level (Site)	Enabled (Checked), Updatable (Checked)
Profile Option Level (User)	Enabled (Checked), Updatable (Checked)

Actions
View
Detach

Profile Option Code	Profile Display Name	Application	Module	Start Date	End Date	Description
ALLOW_SPECIALLEAVE_ABSENCE_BOOKING	Allow Special Leave Absence Booking	Absence Management	Absence Recording	1/1/51		Custom Profile Option created to Allow Special Leave Absence Booking

ALLOW_SPECIALLEAVE_ABSENCE_BOOKING: Profile Option Levels

Actions
View
Detach

Level	Enabled	Updatable
Site	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Product	<input type="checkbox"/>	<input type="checkbox"/>
User	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Assign Profile Option Values

We will assign profile option values for this newly created profile option.

Navigation->Manage Administrator Profile Values->ALLOW_SPECIALLEAVE_ABSENCE_BOOKING

Profile Option Name: ALLOW_SPECIALLEAVE_ABSENCE_BOOKING			
*Profile Level	Product Name	User Name	Profile Value
Site			N
User		HCM_IMPL	Y
User		HCM_IMPL1	Y

Manage Administrator Profile Values

Save

Save and Close

Cancel

► Search : Profile Option

Search Results

▲ Search Results : Profile Options

Actions ▾ View ▾ Detach

Profile Option Code	Profile Display Name	Application	Module	Start Date	End Date	Description
ALLOW_SPECIALLEAVE_ABSENCE_BOOKING	Allow Special Leave Absence Booking	Absence Management	Absence Recording	1/1/51		Custom Profile Option

▲ ALLOW_SPECIALLEAVE_ABSENCE_BOOKING: Profile Values

Actions ▾ View ▾ Detach

* Profile Level	Product Name	User Name	Profile Value
Site			N
User		HCM_IMPL	Y
User		HCM_IMPL1	Y

Create a Custom Table Value Set

We will now create a custom table type value set.

Navigation-> Setup and Maintenance -> Manage Value Sets -> Create

Attribute Name	Attribute Value
Value Set Code	SPECIALLEAVE_RECORDING_AUTH_VS
Description	Custom Table Type Value Set which returns the profile value assigned to ALLOW_SPECIALLEAVE_ABSENCE_BOOKING
*Module	Absence Management
Validation Type	Table
Value Data Type	Character
*FROM Clause	find_profile_option_values fpov , find_profile_options_b fpob
*Value Column Name	fpov.profile_option_value
ID Column Name	fpov.profile_option_value
WHERE Clause	fpov.profile_option_id = fpob.profile_option_id and fpob.profile_option_name = 'ALLOW_SPECIALLEAVE_ABSENCE_BOOKING' and fpov.level_value =find_global.user_guid

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Edit Value Set: SPECIALLEAVE_RECORDING_AUTH_VS ?

Value Set Code	SPECIALLEAVE_RECORDING_AUTH_VS	
Description	Custom Table Type Value Set which returns the profile value assigned to	
* Module	Absence Management ▼	
Validation Type	Table	
Value Data Type	Character	
	<input type="checkbox"/> Security enabled	
Data Security Resource Name		<button>Edit Data Security</button>

Definition

* FROM Clause	fnd_profile_option_values fpov , fnd_profile_options_b fpob	
Value Attributes Table Alias		
* Value Column Name	fpov.profile_option_value	
Value Column Type	VARCHAR2	
Value Column Length	1,000	
Description Column Name		
Description Column Type		
Description Column Length		
ID Column Name	fpov.profile_option_value	
ID Column Type	VARCHAR2	
ID Column Length	1,000	
Enabled Flag Column Name		
Start Date Column Name		
End Date Column Name		
WHERE Clause	fpov.profile_option_id = fpob.profile_option_id and fpob.profile_option_name = 'ALLOW_SPECIALLEAVE_ABSENCE_BOOKING' and fpov.level_value = fnd_global.user_guid	

[Create Custom Error Message](#)

We would now create a custom error message.

Navigation-> Setup and Maintenance->Manage Messages -> Create

Attribute Name	Attribute Value
Message Name	SPECIAL_LEAVE_ABS_RCD_AUTH_ERR
Application	Absence Management
Module	Absence Recording
Message Number	9000001
Message Type	Error
Severity	High
Logging Enabled	Checked
*Short Text	You are not authorized to record this absence. Please contact your system administrator.

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Edit Message: SPECIAL_LEAVE_ABS_RCD_AUTH_ERR ?

Save Save

Message Properties

Message Name SPECIAL_LEAVE_ABS_RCD_AUTH_ERR

Application Absence Management

Module Absence Recording

Message Number 9000001

Translation Notes

* Message Type Error

Category

Severity High

☒ Logging Enabled

Message Text

* Short Text You are not authorized to record this absence. Please contact your system administrator.

Create Custom Fast Formula

We would now create a custom Fast Formula of Global Absence Entry Validation Type.

Navigation-> Setup and Maintenance-> Fast Formulas -> Create

Fast Formula Text

/* Formula Name: SPECIAL_LEAVE_VALIDATION

Formula Type: Global Absence Entry Validation

Description : Custom Global Absence Entry Validation Attached to Special Leave Absence Type

Change History:

Version

1.0

Date

18-May-2020

Created By

Ashish Harbhajanka

*/

INPUTS ARE IV_START_DATE (date),

IV_END_DATE (date),

IV_ABSENCE_REASON,

IV_TOTALDURATION

lc_valid = 'Y'

lc_val_set_has_val = 'Y'

lc_auth_val = GET_VALUE_SET('SPECIALLEAVE_RECORDING_AUTH_VS')

IF ISNULL(lc_auth_val) = 'N'

THEN

(

lc_val_set_has_val = 'Y'

lc_auth_val = 'N'

)

L_LOG = ESS_LOG_WRITE('Value of lc_auth_val is: ' || lc_auth_val)

L_LOG = ESS_LOG_WRITE('Value of lc_val_set_has_val is: ' || lc_val_set_has_val)

VALID = lc_valid

IF (lc_auth_val = 'N')

THEN

(

VALID = 'N'

ERROR_MESSAGE = 'SPECIAL_LEAVE_ABS_RCD_AUTH_ERR'

RETURN VALID,ERROR_MESSAGE

)

RETURN VALID

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*Formula Name SPECIAL_LEAVE_VALIDATION Effective As-of Date 5/19/20

Type Global Absence Entry Validation

Formula Overview Formula Details

Formula Name Effective Start Date 1/1/51 Effective End Date

Description Custom Global Absence Entry Validation Attached to Special Leave Absence Type

Compile Status

End Date Edit Database Items Functions Globals

Database Items

Search Database Item Name

Database Items

View Add to Formula Detach

Database Item Name Data Type Dt

Formula Text

```
1 /* Formula Name: SPECIAL_LEAVE_VALIDATION
2 Formula Type: Global Absence Entry Validation
3 Description : Custom Global Absence Entry Validation Attached to @Special Leave Absence Type
4 Change History:
5 .....
6 Version Date Created By
7 1.0 18-May-2020 Ashish Harbhajanka
8 .....
9 */
10 INPUT ARE IV_START_DATE (date),
11 IV_END_DATE (date),
12 IV_ABSENCE_REASON,
13 IV_TOTALDURATION
14
15 lo_vald = 'Y'
16 lo_val_set_has_val = 'Y'
17 lo_auth_val = GET_VALUE_SET('SPECIALLEAVE_RECORDING_AUTH_VS')
18 IF ISNULL(lo_auth_val) = 'N'
19 THEN
20 (
21 lo_val_set_has_val = 'Y'
22 lo_auth_val = 'N'
23 )
24 L_LOG = ESS_LOG_WRITE('Value of lo_auth_val is: ' || lo_auth_val)
25 L_LOG = ESS_LOG_WRITE('Value of lo_val_set_has_val is: ' || lo_val_set_has_val)
26 VALID = lo_vald
27 IF (lo_auth_val = 'N')
28 THEN
29 (
30 VALID = 'N'
31 ERROR_MESSAGE = 'SPECIAL_LEAVE_ASS_REC_AUTH_ERR'
32 RETURN VALID,ERROR_MESSAGE
33 )
34
35 RETURN VALID
```

Assign Validation Fast Formula to Absence Type

Now we will attach the Fast Formula to Absence Type

Navigation->Setup and Maintenance -> Manage Absence Types -> Special Leave

View Type Special Leave

Save

*Session Effective Date 5/19/20

Basic Details

Effective Start Date 1/1/51 Effective End Date

Pattern Generic absence Legislation United States

Management User-defined

Type Attributes Plans and Reasons Display Features Action Items

General Attributes

Name Special Leave Conversion Formula

Description Validation Formula SPECIAL_LEAVE_VALIDATION

UOM Days Eligibility Profile

Legislative Data Group US Legislative Data Group Legislative Grouping Code

Status Active

Verifying Results

Now we will login with an ADMIN user (**HCM_IMPL2**) who is **not allowed** to record absence booking for “Special Leave” and check result.

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The screenshot shows the Vision HCM interface. At the top, the user is logged in as HCM_IMPL2. The main header displays the user's profile (Sandy Kim: Person Management) and a 'Close' button. Below the header, there is a blue bar with the text 'Absence Administration'. A modal dialog box is open, displaying an 'Error' message: 'You are not authorized to record this absence. Please contact your system administrator. (ANC-9000001)'. The dialog has an 'OK' button. In the background, the 'Absence Administration' form is visible, showing fields for 'Absence Type' (Special Leave), 'Start Date' (5/1/20), 'End Date' (5/1/20), 'Start Time' (8:30 AM), 'End Time' (5:30 PM), and 'Duration' (1.000 Days). There are 'Save', 'Submit', and 'Cancel' buttons at the top right of the form.

We will now login with another ADMIN user (*HCM_IMPL1*) who is *authorized* to record the absence and verify result.

The screenshot shows the Vision HCM interface with the user logged in as HCM_IMPL1. The main header displays the user's profile (Sandy Kim: Person Management) and a 'Close' button. Below the header, there is a blue bar with the text 'Absence Administration'. A modal dialog box is open, displaying a 'Confirmation' message: 'The request was submitted.' The dialog has an 'OK' button. In the background, the 'Absence Administration' form is visible, showing fields for 'Absence Type' (Special Leave), 'Start Date' (5/1/20), 'End Date' (5/1/20), 'Start Time' (8:30 AM), 'End Time' (5:30 PM), and 'Duration' (1.000 Days). There are 'Save', 'Submit', and 'Cancel' buttons at the top right of the form.

Summary

So, this is how we can make use of Global Absence Entry Validation Fast Formula to restrict absence booking for specific users. While in this example we have used controls on Admin users the same logic can very well be applied for line managers and employees too.

And with this I would end this post.

Hope this was a good read, Thanks all for your time and have a nice day ahead.