

OpenERP caldav(Calendar synchronizing):

### ***What is CalDAV?***

CalDAV is Calendaring Extensions to WebDAV, means it is an Internet standard allowing a client to access scheduling information on a remote server.

### ***CalDAV in OpenERP***

OpenERP Caldav modules(base\_calendar and caldav) provides following functionality:

- Event and Todo Synchronization
- Event and Task Reminder
- Sending Invitation to people via mail
- Fetching attendee response using mail gateway
- Event Alerts
- Recurring Events
- Webdav server that provides remote access to calendar
- Customize calendar event and todo attribute with any of OpenERP model

With OpenERP caldav module(s) you can use/share and synchronize OpenERP events and tasks to any remote calendar. And changing data to remote calendar will reflect to OpenERP.

### ***How it works?***

First we will see how to configure calendar for Import/Export with OpenERP models and fields.

Here is the form view of calendar from menu *Sales/Configuration/Calendar/Calendar*.

You can Define calendar's line and its related Object to which you want to map calendar event. By default it maps events to “Meeting Cases” and maps Todo with “Project Task”.

The screenshot shows the OpenERP web interface for the 'Calendar' configuration. The window title is 'OpenERP'. The menu bar includes 'File', 'User', 'Form', 'Options', 'Plugins', 'Shortcuts', and 'Help'. The toolbar contains various icons for actions like adding, deleting, and navigating. The 'Menu' tab is active, showing the 'Calendar' configuration. The 'Name' field is set to 'OpenERP' and 'Active' is checked. The 'Calendar Lines' section contains a table with the following data:

Type	Object
Event	Meeting Cases
Alarm	Event alarm information
Attendee	Attendee information
TODO	Tasks

On the right side of the 'Calendar Lines' table, there are three buttons: 'Import .ics File', 'Subscribe', and 'Export .ics File'. The status bar at the bottom shows 'Record: 1 / 1 of 1 - Editing document (id: 1)' and 'State: Document Saved.' The footer contains the URL 'http://localhost:8069 [caldav]', the user 'Administrator', and fields for 'Company:' and 'Requests:'.

## Caldav attribute's mapping:

You can define mapping of Caldav attributes to OpenObject model's fields in “Attribute Mapping” like:

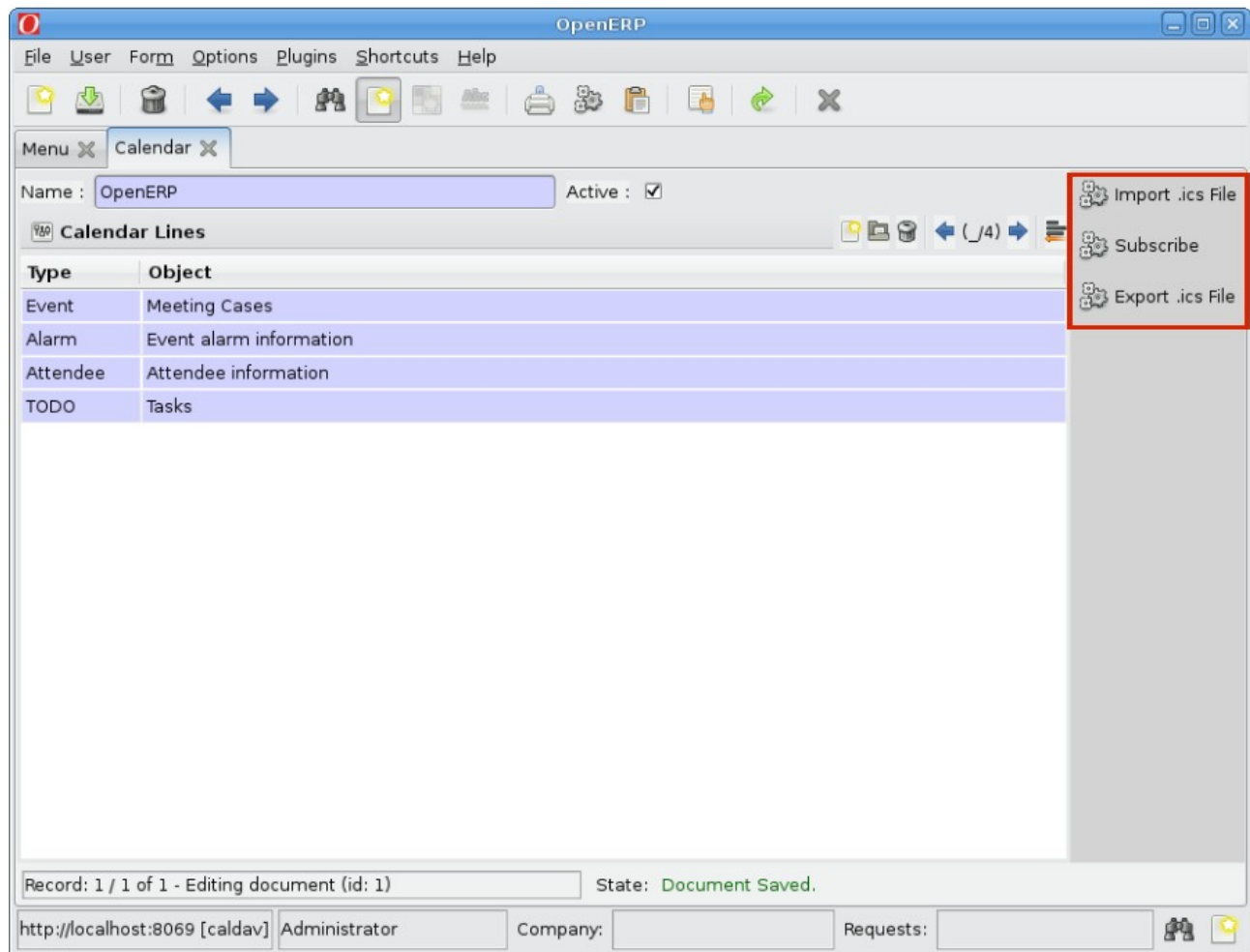
The screenshot shows the OpenERP web interface. The 'Calendar Lines' section is active, showing a calendar named 'OpenERP' with the type 'Event' and object 'Meeting Cases'. The domain is set to '[(\'user\_id\', \'=\', uid)]'. The 'Attributes Mapping' section shows a table mapping Caldav attributes to OpenObject fields.

Name	Function	OpenObject Field	Expression
uid	Use the field	ID	
recurrence-id	Use the field	Recurrent ID date	
vtimezone	Use the field	Timezone	
attendee	Use the field	Attendees	
rrule	Use the field	Recurrent Rule	
dtend	Use the field	Deadline	
valarm	Use the field	Alarm	
priority	Use the field	Priority	
location	Use the field	Location	
exrule	Use the field	Exception Rule	
status	Use the field	State	
exdate	Use the field	Exception Date/Times	
dtstamp	Use the field	Date	

Record: 1 / 1 of 1 - Editing document (id: 1) State:

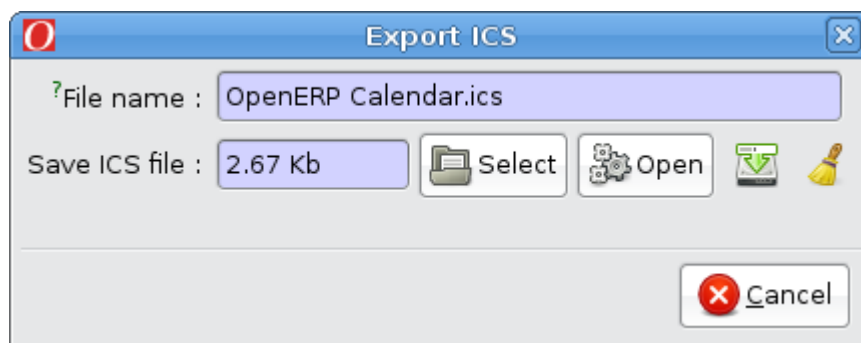
http://localhost:8069 [caldav] Administrator Company: Requests: No request

Here you can see the wizards to Import/Export calendar data and to subscribe to any Shared Calendar.



### Exporting Calendar Data:

This is a dialog that will be opened when you click on Export .ics, You can save exported .ics files and use it in any caldav system that supports importing .ics files.



## Importing .ics file:

You can import valid .ics files from “Import .ics File” wizard.  
It will Create new event and todo if its exported from calendar other than OpenERP calendar.  
Or it will update data event and todo if has been exported from “Export .ics File” wizard.

## Subscribe to remote calendar:

You can import remote event from “Subscribe” wizard from Calendar.

## Meetings Calendar:

OpenERP

File User Form Options Plugins Shortcuts Help

Menu Meetings

My Meetings Current Confirmed

Subject : Partner : Section : Responsible :

End Clear -- Filters -- 0/6 of 6

< February > < 2010 > Today February 2010 Day Week Month

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5	6
7	8	9	10	11	12	13

Responsible

- Demo User
- Administrator

Record: 1 / 6 of 6-20100218131249 - Editing document (id: 4-20100220100202) State:

socket://localhost:8070 [caldav] Administrator Company: Tiny sprl Requests: No request

## Recurrent meetings:

You can define recurrency on meeting by defining “Recurrency”.

OpenERP

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Meetings

Summary :

Follow-up on proposal

?Location :

Start Date :

02/03/2010 10:20:03

Duration :

06:18

End Date :

02/03/2010 16:38:03

?Category :

Internal Meeting

Reminder :

Recurrency :

Weekly

Custom

Description

Attendee Detail

Other Information

Description

Meeting to discuss project plan and hash out the details of implementation

Modify this Occurrence

Record: 6 / 6 of 6 - Editing document (id: 1)

State:

socket://localhost:8070 [cal...

Administrator

Company: Tiny sprl

Requests: No request

It will reflect on meeting's calendar view:

The screenshot shows the OpenERP Meetings calendar view for February 2010. The interface includes a menu bar (File, User, Form, Options, Plugins, Shortcuts, Help) and a toolbar with various icons. The main area displays a calendar grid with events. The 'Responsible' list on the left shows 'Demo User' and 'Administrator'. The status bar at the bottom indicates the user is 'Administrator' and the company is 'Tiny sprl'.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5	6
7	8	9	10	11	12	13

Events listed in the calendar:

- 10:20 Follow...
- 12:01 Initial ...
- 10:20 Follow...
- 15:55 Discu...
- 10:20 Follow...
- Update the data
- 10:02 Revie...
- 11:05 Chan...
- 10:20 Follow...
- 10:20 Follow...

## Defining Custom Recurrency:

Select Custom from the Recurrency selection box and click on **Custom** button.

Here we defined that the event will occur on Monday, Wednesday and Saturday of every week till 28<sup>th</sup> February.

The screenshot shows the 'OpenERP - Custom Rule' dialog box. It contains fields for Frequency (Weekly), Interval (1), Count (0), and Repeat Until (02/28/2010). Below these fields are checkboxes for days of the week: Mon (checked), Tue (unchecked), Wed (checked), Thu (unchecked), Fri (unchecked), Sat (checked), and Sun (unchecked). The dialog has 'Cancel' and 'Ok' buttons at the bottom.

Select data for Custom Rule

Frequency : Weekly Interval : 1

Count : 0 Repeat Until : 02/28/2010

Mon : ☒ Tue : ☐ Wed : ☒ Thu : ☐

Fri : ☐ Sat : ☒ Sun : ☐

Cancel Ok

On the calendar view it will appear like:

OpenERP

File User Form Options Plugins Shortcuts Help

Menu Meetings

My Meetings Current Confirmed

Subject : Partner : Section : Responsible :

Find Clear

-- Filters --

0/6 of 6

< February > < 2010 > Today February 2010 Day Week Month

Sun	Mon	Tue	Wed	Thu	Fri	Sat
5	31	1	2	3	4	5
6	7	8	9	10	11	12
7	14	15	16	17	18	19
8	21	22	23	24	25	26
9	28	1	2	3	4	5
10	7	8	9	10	11	12

**Responsible**

Demo User

Administrator

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1	2	3	4	5	6
			10:20 Follow...		12:01 Initial ...	10:20 Follow...
7	8	9	10	11	12	13
	10:20 Follow...		10:20 Follow...		15:55 Discu...	10:20 Follow...
14	15	16	17	18	19	20
	10:20 Follow...		10:20 Follow...	Update the data		10:20 Follow...
21	22	23	24	25	26	27
	10:20 Follow...		10:20 Follow...			10:20 Follow...
28	1	2	3	4	5	6
7	8	9	10	11	12	13

Record: 6 / 16 of 6-20100218131249 - Editing document (id: 1-2010020...) State:

socket://localhost:8070 [cal... Administrator Company: Tiny sprl Requests: No request



You can edit any event from the recurrent events using “Modify this Occurrence”.

The screenshot shows the OpenERP Meetings form with an 'Edit Event' modal window open. The main form contains the following fields:

- Summary: Follow-up on proposal
- Location: (empty)
- Start Date: 02/10/2010 10:20:03
- Duration: 06:18
- End Date: 02/10/2010 16:38:03
- Category: Internal Meeting
- Reminder: (empty)
- Recurrency: Custom

The 'Edit Event' modal window contains the following fields:

- Title: Follow-up on proposal
- Location: (empty)
- Start Date: 02/11/2010 10:20:00
- End Date: 02/11/2010 16:38:00
- Reminder: (empty)

At the bottom of the main form, there is a button labeled 'Modify this Occurrence' with a green download icon. The status bar at the bottom shows: Record: 9 / 16 of 6-20100218131249 - Editing document (id: 1-2010021... State: socket://localhost:8070 [cal... Administrator Company: Tiny sprl Requests: No request

## Event Reminder:

You can set event reminder or define custom reminder from menu *Sales/Configuration/Calendar/Available alarms.*

The screenshot shows the OpenERP Meetings form. The 'Reminder' dropdown menu is open, displaying a list of time intervals. The '10 minutes before' option is currently selected and highlighted in blue. The form fields include:

- Summary: Follow-up on proposal
- Start Date: 02/10/2010 10:20:03
- Duration: 06:18
- End Date: 02/10/2010 16:38:03
- Category: Internal Meeting
- Reminder: (dropdown menu open)
- Recurrency: Custom

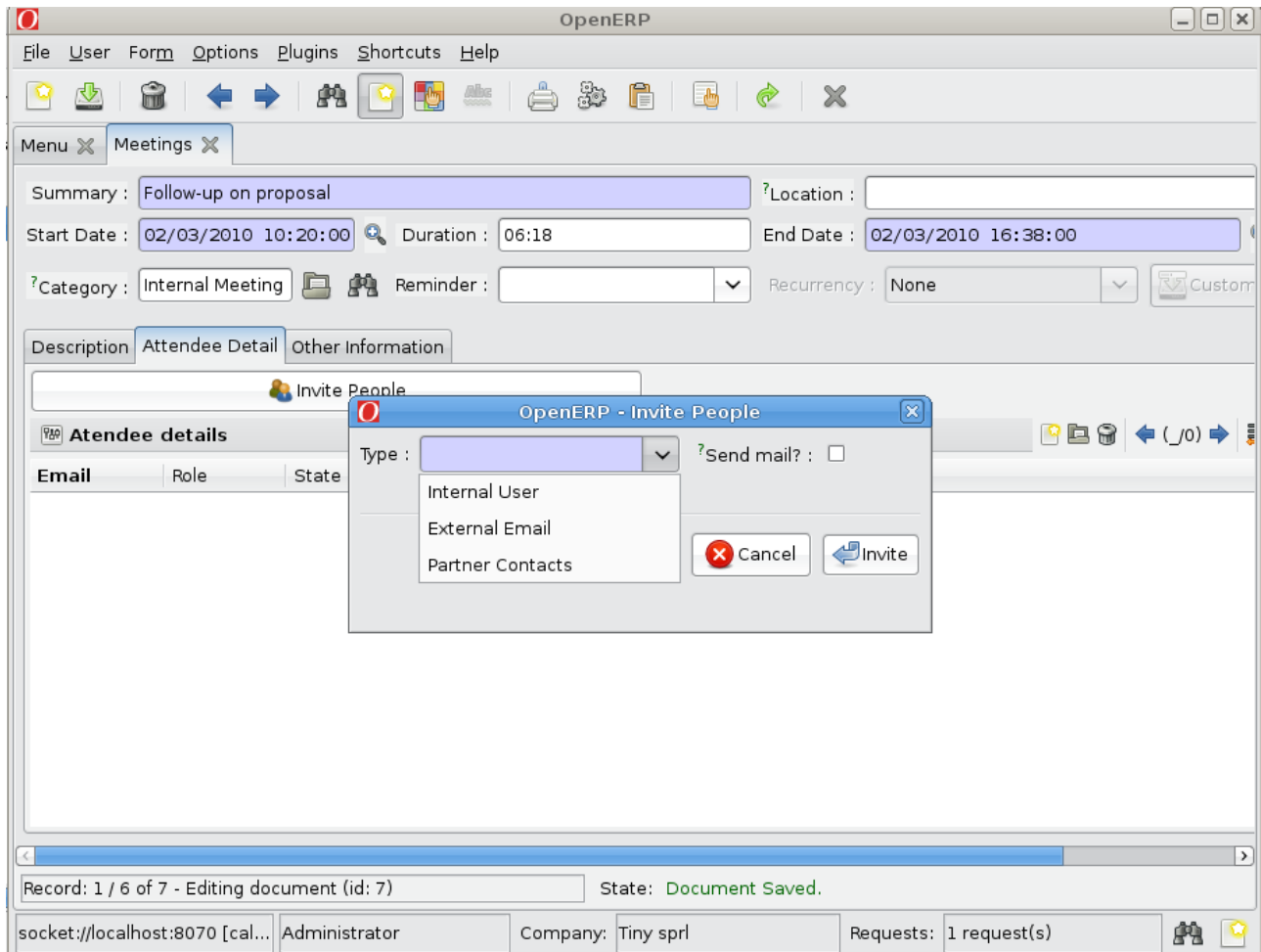
The 'Description' tab is active, showing the text: 'Meeting to discuss project plan and hash out the deta'. Below the description, there is a 'Modify this Occurrence' button.

At the bottom of the window, the status bar displays: 'Record: 9 / 16 of 6-20100218131249 - Editing document (id: 1-2010021...' and 'State:'. The bottom-most bar shows 'socket://localhost:8070 [cal...', 'Administrator', 'Company: Tiny sprl', and 'Requests: No request'.

## Invite Attendee:

You can invite people for event or define assignee for task.

If you select boolean **“Send Mail”**, it will send an invitation mail.



The screenshot shows the OpenERP Meetings form with the following fields and values:

- Summary: Follow-up on proposal
- Location: (empty)
- Start Date: 02/03/2010 10:20:00
- Duration: 06:18
- End Date: 02/03/2010 16:38:00
- Category: Internal Meeting
- Reminder: (empty)
- Recurrency: None

The 'Attendee Detail' tab is selected, showing a table with columns: Email, Role, State. An 'Invite People' dialog box is open over the table, with the following fields and options:

- Type: (dropdown menu showing Internal User, External Email, Partner Contacts)
- Send mail?: ☐
- Buttons: Cancel, Invite

The status bar at the bottom shows: Record: 1 / 6 of 7 - Editing document (id: 7) State: Document Saved. socket://localhost:8070 [cal... Administrator Company: Tiny sprl Requests: 1 request(s)

If you select boolean “**Send Mail**”, it will send an invitation mail.

**Subject:** [Tiny sprl Invitation][3] Follow-up on proposal

**From:** [admin@tinyerp.com](mailto:admin@tinyerp.com)

Hello,

You are invited for *Tiny sprl* Event.

Below are the details of event:

### Follow-up on proposal

<b>Start Date</b>	: 2010-02-03 10:20:00	<b>End Date</b>	: 2010-02-03 16:38:00
<b>Description</b>	: Meeting to discuss project plan and hash out the details of implementation		
<b>Location</b>	: Chaussee de Namur 40		
<b>Event Attendees</b>	: Administrator - Status: Needs-Action rpa@tinyerp.co.in - Status: Needs-Action		
<b>Are you coming?</b>	: <ul style="list-style-type: none"><li>• YES</li><li>• NO</li><li>• MAYBE</li></ul>		

**Note:** If you are interested please reply this mail and keep only your response from options *YES*, *NO* and *MAYBE*.

From:

Demo User

-----  
Mr Demo

The invited people can reply for his response.

You can link this response with “**Email Gateway**” by creating gateway for “*Attendee information*” model.

This will change attendee's status according to reply.

**Define Gateway and Gateway Server:**

OpenERP - Gateway Server

Type of Server : Imap

Server Address : imaps.yourserver.com

User : username

SSL : ☒

Port : 993

Password : ●●●●●●●●

Active : ☒

Cancel

OK

OpenERP

File

User
















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Menu

Email Gateway

Name : Attendee Gateway

Model : Attendee information

Fetch Mail

Gateway Server : imaps.yourserver.com

To :

Default eMail :

Email History

No record selected



State:

socket://localhost:8070 [cal...

Administrator

Company: Tiny sprl

Requests: 1 request(s)



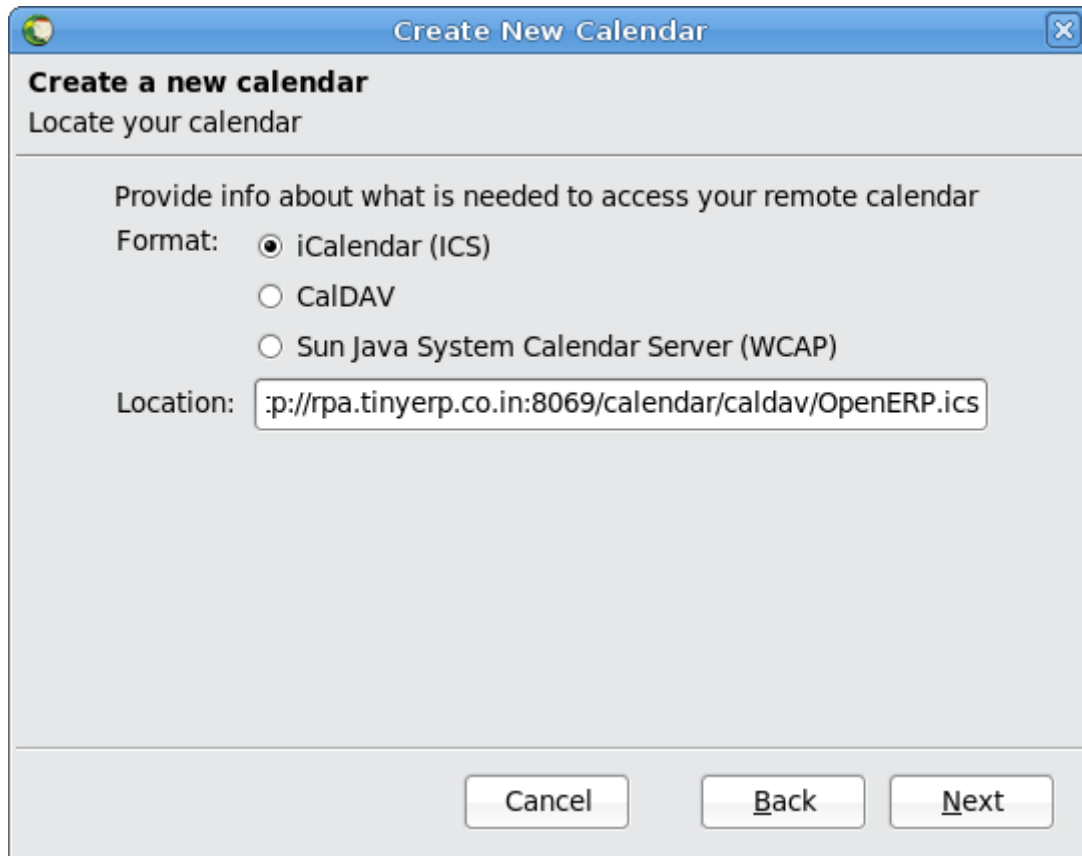
### Synchronization with Sunbird:

Here is an example to synchronize OpenERP calendar into Mozilla sunbird.

You can access to a remote OpenERP calendar using webdav.

The URL path of calendar is defined as follow:

[http://host:port\(by default 8069\)/calendar/dbname/calendar\\_name.ics](http://host:port(by default 8069)/calendar/dbname/calendar_name.ics)



**Create New Calendar**

**Create a new calendar**  
Locate your calendar

Provide info about what is needed to access your remote calendar

Format: ☒ iCalendar (ICS)  
☐ CalDAV  
☐ Sun Java System Calendar Server (WCAP)

Location: :p://rpa.tinyerp.co.in:8069/calendar/calDav/OpenERP.ics

Cancel Back Next



After subscribing it you can see OpenERP event and todo in sunbird.

February 2010 - Sunbird

File Edit View Go Tools Help

New Event New Task Delete Import Export Reload Today Day Week Multiweek Month Find Events Choose Date

Date Calendars

☐ Home  
☒ OpenERP

All Events contain

Title	Start	End	Category
Changes in Designing	Mon 22 Feb 2010 11:05 AM	Mon 2...	
Discuss pricing	Fri 12 Feb 2010 03:55 PM	Fri 12 ...	
Follow-up on proposal	Tue 9 Feb 2010 02:50 PM	Tue 9 ...	
Initial discussion	Fri 5 Feb 2010 12:01 PM	Fri 5 F...	
Review needs	Sat 20 Feb 2010 10:02 AM	Sat 20 ...	
Update the data	Thu 18 Feb 2010 01:12 PM	Fri 19 ...	

February 2010 Calendar Weeks 5-8

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 Feb	2	3	4	5	6	7
		02:50 PM Fo...		12:01 PM Ini...		
8	9	10	11	12	13	14
In hous...	MRP; fu...	In hous...		03:55 PM Di...	02:50 PM Fo...	
Validati...	Validati...	Specific...				
15	16	17	18	19	20	21
02:50 PM Fo...		02:50 PM Fo...	01:12 PM ...	02:30 AM ...	10:02 AM ...	
					02:50 PM ...	
22	23	24	25	26	27	28 Feb
02:50 PM ...		02:50 PM Fo...			02:50 PM Fo...	
11:05 AM ...						

Click Here to Add a New Task

Tasks

☒ Show completed Tasks

<input checked="" type="checkbox"/>	Title	Start
<input type="checkbox"/>	In house trai...	Mon 8 Feb 2...
<input type="checkbox"/>	MRP; functio...	Mon 8 Feb 2...
<input type="checkbox"/>	Specific ada...	Mon 8 Feb 2...
<input type="checkbox"/>	Validation + ...	Mon 8 Feb 2...

Creating/Updating task or event will reflect in OpenERP.

If we create task in Sunbird like:

**New Task: New Task from Sunbird**

File Edit View Options Help

Save and Close Privacy Attach

**Title:** New Task from Sunbird

**Location:** Location

**Category:** None **Calendar:** OpenERP

**Start (B):** ☒ Tuesday 09 February 16:00 [Asia/Kolkata](#)

**Due Date:** ☒ Tuesday 09 February 16:00

**Status:** Not specified Tuesday 09 February 0 % complete

**Repeat:** Does not repeat

**Reminder:** No reminder

**Description:** This is the OpenERP task created from Sunbird.

OpenERP

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Tasks

Description : New Task from Sunbird

Project :

Total Hours : 10:00

Deadline : \_/\_/\_ \_:\_:\_

Responsible : Administrator

Progress (%) : 0.00 %

Recurrency :

Custom

Information

Delegations

Extra Info

Assignees Detail

Planned Hours : 10:00

Delay Hours : 00:00

Remaining Hours : 10:00

Hours Spent : 00:00

This is the OpenERP task created from Sunbird

Task Work

Work summary

Time Spent

Done by

Date

Record: 1 / 1 of 1 - Editing document (id: 26)

State:

socket://localhost:8070 [caldav]

Administrator

Company: Tiny sprl

Requests: 1 request(s)

Gantt

Comp

Impor

Subsc

Expor