

OpenMeetings4IPBrick Guide

iPortalMais 2010

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1 Introduction

Always catering to your needs, *iPortalMais* has created a solution to address the issue of an increasing collaborative workplace, by integrating a browser-based software solution such *Openmeetings* in *IPBrick*. This solution can be used for presenting, online training, web conferencing, collaborative whiteboard drawing and document editing, user desktop sharing etc. Communication takes place in meeting rooms which are set to different communication, security and video quality modes.

Besides the obvious economic benefits, the privilege of every employee to participate in a meeting or the real-time sharing of ideas as well and data transmission can help your organization complete common everyday tasks with an added benefit and web conferencing can offer, to people who lack physical participation, the use of tools to counteract their absence.

2 Features

Openmeetings has the following features:

- Audio communication
- Video conferencing
- Meeting recording
- Screen sharing
- Collaborative document editing
- Chat and whiteboarding
- User and room management

3 Requirements

- *IPBrick* v5.2 or a later version;
- `Openmeetingspackages_1.0.deb`;
- `Openmeetings4ipbrick_1.2-1.deb`;
- **Optional:**
 - `moodle4ipbrick_1.9.3_all.deb`
 - `openmeetings4moodle_0.8.deb`
(both these packages are optional, for more information please consult the *Moodle Integration* subsection of this document)

4 Installation Procedure

In order to install *OpenMeetings* please follow these steps in order:

1. Access the *IPBrick's* web interface: Advanced Configurations > IPBrick > Update
2. Install the `openmeetingspackages_1.0.deb`
Please follow the installation instructions.
3. Apply Configurations
4. Repeat the procedure for the `openmeetings4ipbrick_1.2-1.deb` package
Please follow the installation instructions.
5. Apply Configurations

By default, *OpenMeetings* can be accessed at:

- `http://192.168.69.199:5080/openmeetings`

These are the Authentication Credentials:

- Login: `omadmin`
- Password: `omadmin`

Note: Users created in IPBrick (at the Users Management page) can also access the OpenMeetings web interface without the need of further configuration. The Authentication is through the LDAP. User passwords should be at least 4 characters long

4.1 Moodle Integration

After the previous installation procedure and if you wish to take advantage of the *OpenMeetings* for *Moodle* module please follow these steps in order:

1. Install the `moodle4ipbrick_1.9.3_all.deb`
Please follow the installation instructions.
2. Apply Configurations
3. Repeat the procedure for the `openmeetings4moodle_0.8.deb` package.
Please follow the installation instructions.
4. Apply Configurations

VERY IMPORTANT!: The `openmeetings4moodle_0.8.deb` package must be installed **LAST!!!**

4.2 OpenMeetings4Moodle Configuration

After installing the last update you must do the following configurations at the Moodle's web interface (by default: `moodle.domain.com`):

Configure the *OpenMeetings* module at: **Module -> Activities -> OpenMeetings** with the following parameters:

- OpenMeetings/Red5 server link: By default, `192.168.69.199` or `ipbrick.domain.com`
- OpenMeetings/Red5 HTTP server port: by default, `5080`
- OpenMeetings Admin Username: By default, `omadmin`
- OpenMeetings Userpass Admin: By default, `omadmin`
- Language Conference: By default, `1`
- Conference Width: By default, `1000`
- Conference Height: By default, `640`

To use this feature:

- Create/Join a course.
- Use the option `Turn editing on`
- Add a new activity: `OpenMeetings`, create a conference room and set it as you wish.

5 SMTP server configuration

The SMTP server configuration enables you to configure your own machine or use a remote SMTP server for the sending of emails and invitations.

Access:

`Administration > Configuration > smtp_server`

At `Value` type the SMTP server's IP or its FQDN;

Home | Recordings | Rooms | Administration |

Users | Connections | Organisations | Conferencerooms | Configuration | Language-Editor | Backup |

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ID	Key	Value
2	imap_config_path	/usr/lib/imap/webapps/op
3	screen_viewer	4
4	allow_frontend_register	0
5	default_group_id	1
6	default_domain_id	1
7	smtp_server	
8	smtp_port	
9	system_email_addr	
10	email_username	
11	email_userpass	
12	default_lang_id	1
13	swftools_path	
14	imagemagick_path	
15	sox_path	
16	ffmpeg_path	

Configuration

Key: smtp_server

Value: 192.168.69.199

last update: null

updatedby:

comment: this is the smtp server to send messages

Figure 1: Send invitation form

Click on the Save icon.

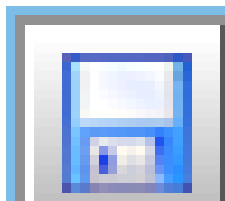


Figure 2: Save Icon

Note: Please don't forget to click on the Save icon every time you perform a configuration change.

The next is to configure the SMTP port.

Access : Administration > Configuration > smtp_port

At Value type the SMTP port number, e.g: 25

Click on the Save icon.

The screenshot shows the Administration Configuration page. A table lists various configuration keys and their values. The key 'smtp_port' is highlighted in blue. To the right, the configuration details for 'smtp_port' are shown, including the key name, the value '25', the last update time (null), the user who updated it (null), and a comment: 'this is the smtp server port normally 25'.

ID	Key	Value
2	ldap_config_path	/usr/lib/red5/webapps/op
3	screen_viewer	4
4	allow_frontend_register	0
5	default_group_id	1
6	default_domain_id	1
7	smtp_server	
8	smtp_port	
9	system_email_addr	
10	email_username	
11	email_userpass	
12	default_lang_id	1
13	swftools_path	
14	imagemagick_path	
15	sox_path	
16	ffmpeg_path	

Configuration

Key: smtp_port

Value: 25

last update: null

updatedby: null

comment: this is the smtp server port normally 25

Figure 3: SMTP port configuration

The final step is to configure the system email address, i.e: the Sender of all emails, including invitations.

Access : Administration > Configuration > system_email_addr

At Value type the system's email address, e.g: openmeetings@domain.com

The screenshot shows the Administration Configuration page. A table lists various configuration keys and their values. The key 'system_email_addr' is highlighted in blue. To the right, the configuration details for 'system_email_addr' are shown, including the key name, the value 'openmeetings@domain.com', the last update time (Tue Oct 30 16:58:53 GMT+0000 2012), the user who updated it (omadmin), and a comment: 'all send EMAILS by the system will have this address'.

ID	Key	Value
1	crypt_ClassName	org.openmeetings.utils.cr
2	ldap_config_path	/usr/lib/red5/webapps/op
3	screen_viewer	4
4	allow_frontend_register	0
5	default_group_id	1
6	default_domain_id	1
7	smtp_server	192.168.69.199
8	smtp_port	25
9	system_email_addr	openmeetings@domain.co
10	email_username	
11	email_userpass	
12	default_lang_id	1

Configuration

Key: system_email_addr

Value: openmeetings@domain.com

last update: Tue Oct 30 16:58:53 GMT+0000 2012

updatedby: omadmin

comment: all send EMAILS by the system will have this address

Figure 4: System email address configuration

Click on the **Save** icon.

To send invitations just enter a conference room and click on:

Actions > Send Invitation

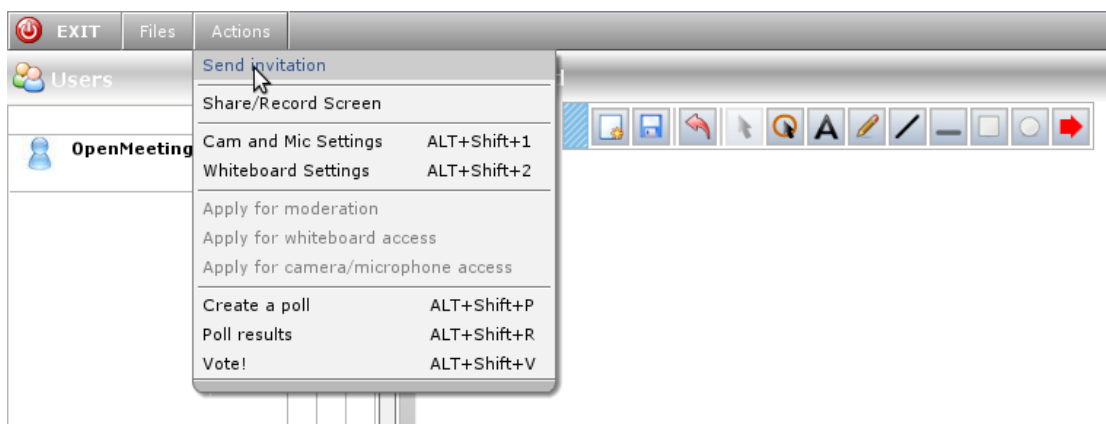


Figure 5: Send invitation

Fill the form with the required info.

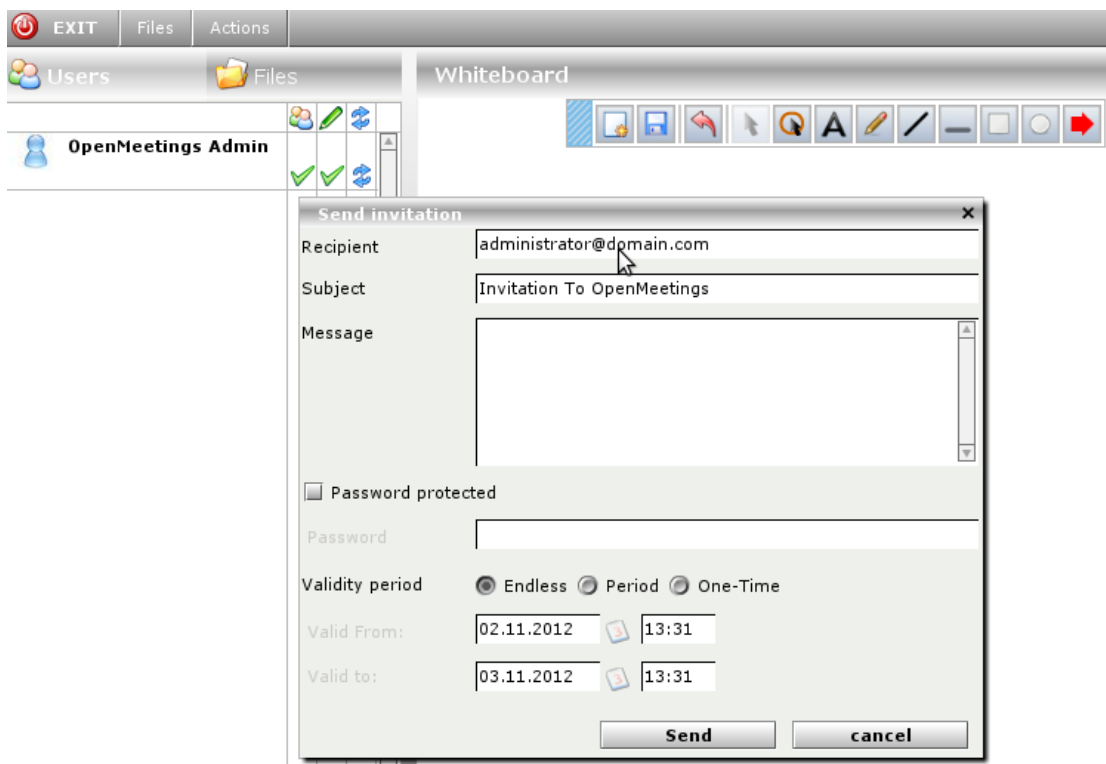


Figure 6: Send invitation form

6 Known Issues

- Password protected invitations do not work, since no login can be made.
- It's not possible to play videos via *OpenMeetings* web interface. If you want to watch the videos you can access the *OpenMeetings* share, as an Administrator and download the recordings made.
- There is no integration with Asterisk.
- The first login of an LDAP user does not not function properly.
- The browser is limited to a specific update in order to run the `.swf` files:

Eg: At Opera(11.62) (Figure 7) you should press CTRL+F12 or, at Settings:

Click on the Advanced tab and then on Downloads;

Edit the `.swf` `.swt` files to use only the following plug-in (and no other):

Shockwave Flash `-/usr/lib/adobe-flashplugin/libflashplayer.so` that was previously installed.

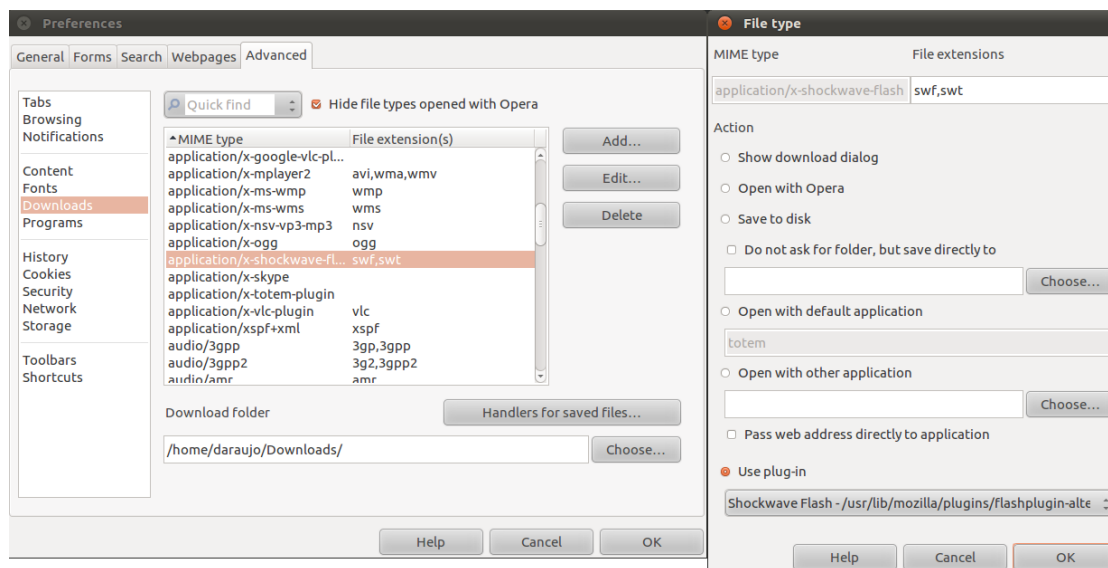


Figure 7: Opera Browser

7 Placing OpenMeetings on the Internet

In order for OpenMeetings to be available on the Internet, please make these configurations at the firewall to forward these ports to the IPBrick where the OpenMeetings software is installed:

- 1935 (RTMP),
- 8088 (RTMP-Over HTTP),
- 5080 (HTTP),

8 Bibliography

<http://code.google.com/p/openmeetings/wiki/MoodlePlugins>

<http://code.google.com/p/openmeetings/wiki/InstallationDebian>