

The image features a dark blue background with a white silhouette of a suspension bridge and a city skyline. The word "TIZEN" is written in a large, white, 3D-style font, with the letter "Z" highlighted in blue. To the right of "TIZEN" is the text "DEVELOPER CONFERENCE MAY 7-9, 2012" in a white, sans-serif font.

TIZEN™ DEVELOPER CONFERENCE MAY 7-9, 2012

Platform Building OBS Light

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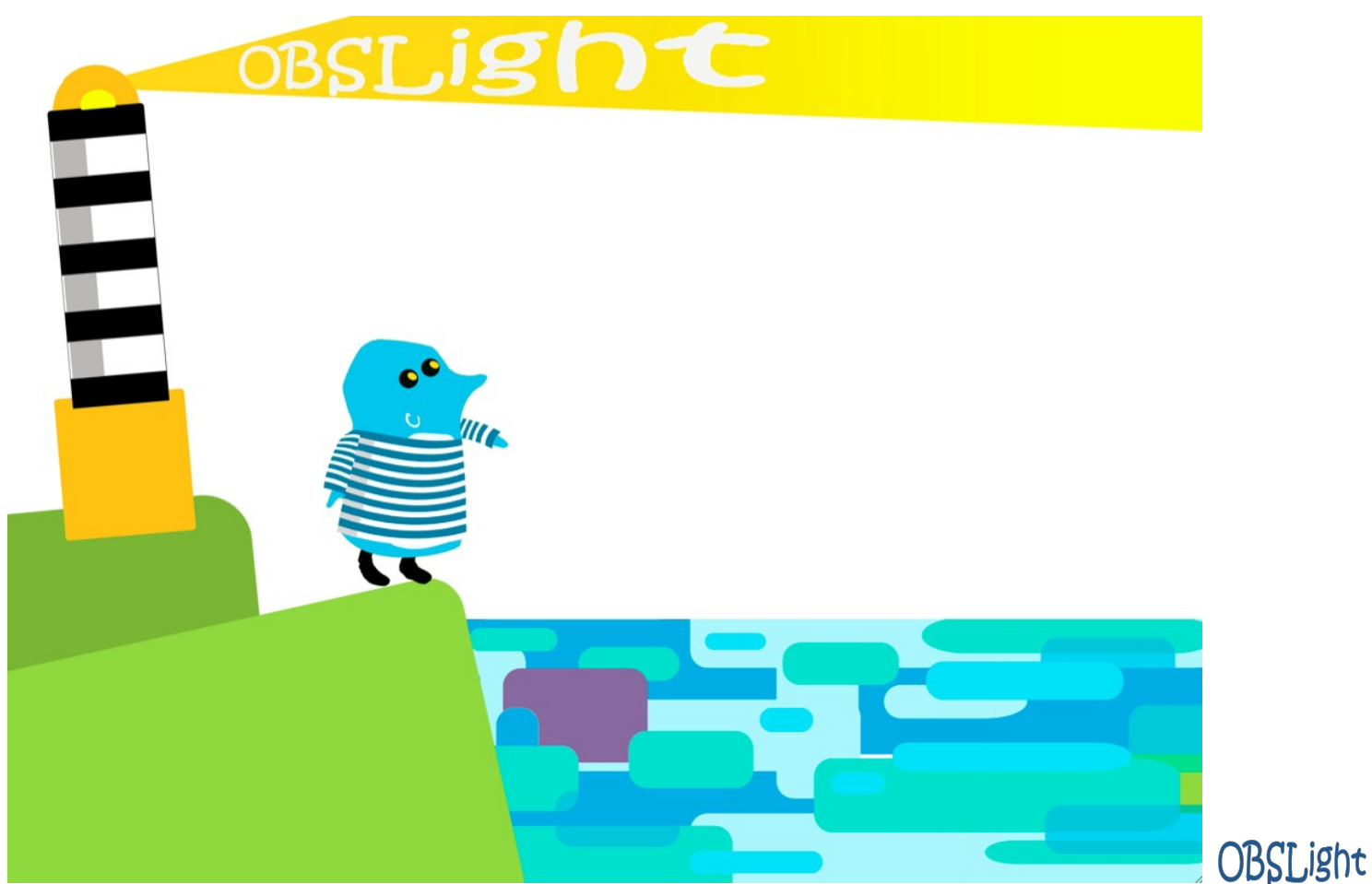
Agenda

- Platform Development Requirements
- Vision
- Development process
- OBS Light Concepts
- Modifying your first package
- Building, testing creating a patch into OBS
- Creating a target image
- Todo list
- How to know more ?

Vision

OBSLight

Guide me



Platform Building Requirements



- Set of Tools optimising Tizen port on bespoke platform
- Easy to Start and powerful in Finishing
- Simplify mixing of Open Source and Private Code
- Enable controlled reuse of ready made packages
- Reduce access complexity to OBS, Build and Image Creation
- Offer an “embedded friendly” view of Tizen
- Provide a GUI for easy access and Command Line for production
- Can grow with the team when the project is confirmed

OBSLight

A tool set to guide you

OBSLight



Discovery timeline

< 1/2 day

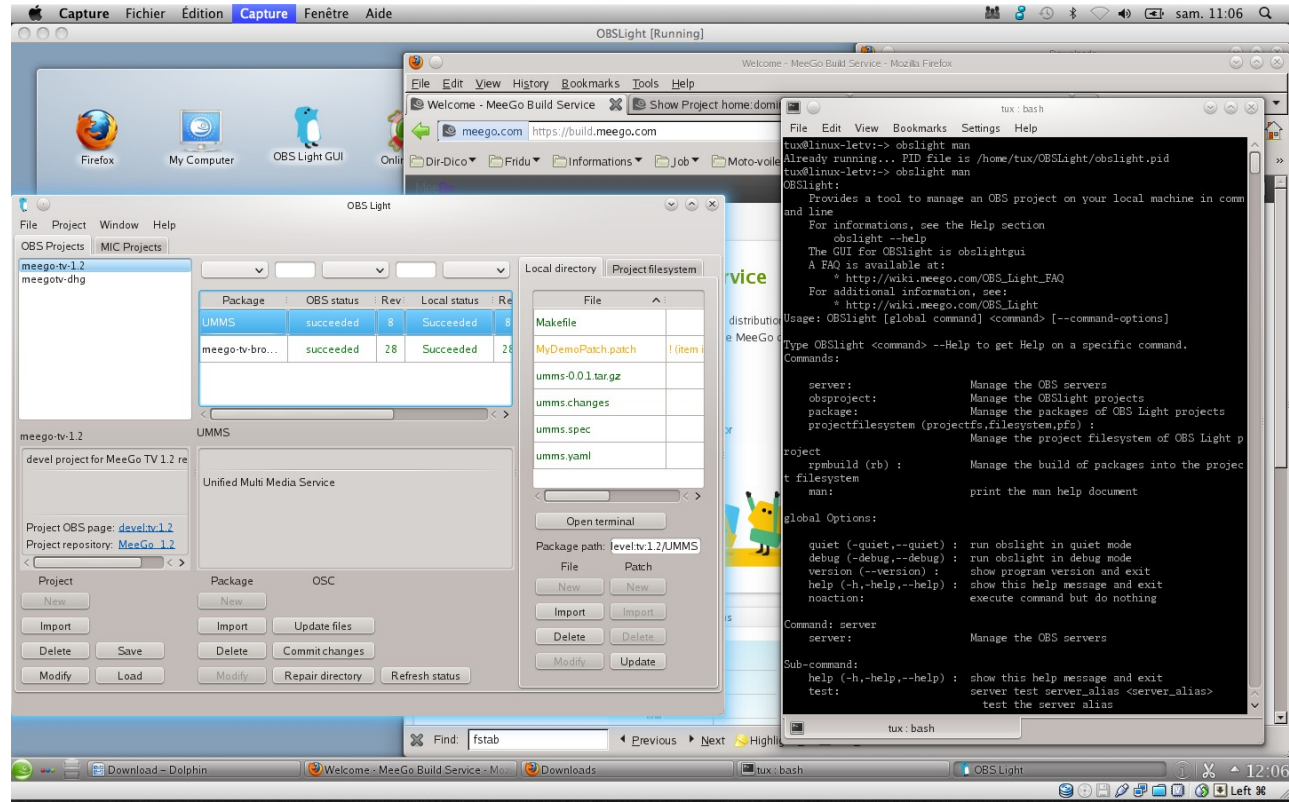


- Start the download of the tools (5mn)
- Watch the intro & training video (45mn)
- Install a private OBS to host the non open source code (10mn)
- Import the packages that you want to modify (20mn)
- Install OBS Light tool kit (10mn)
- Do your modifications in the code (2h)
- Build and test locally (1h)
- Create patches for the existing OBS packages (5mn)
- Create a target image (10mn)
- Test on a target or QEMU (as long as needed)

OBSLight

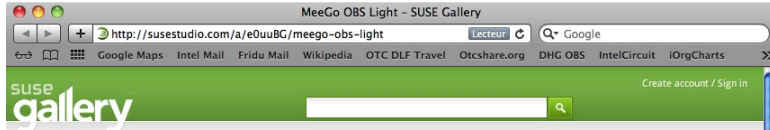
Easy Start

- Tizen Packages
- VM Appliance
- Cloud appliance
- Integrated GUI
- Command line
- API
- Sources in Public Git
- Ready made images



OBSLight

Install OBS Light Tools



MeeGo OBS Light

Published by ronan Based on openSUSE 12.1 32-bit x86
Homepage at http://wiki.mee-go.com/OBS_Light

If you have (or are thinking about) selecting MeeGo but you can't on OBS, the public, cloud-based MeeGo building tool, or if you want a tradition of local build tools based on a chroot than with a full distro might find the learning curve a bit steep.

While OBS will provide you with a very powerful and adapted tool, its cost can be perceived to be too high. This issue is particularly strong in segments where recompilation of the Linux kernel and adding distro early phases of a project and compiling in the public domain is common.

Traditional Embedded developers who are selecting MeeGo are often of local build tools based on a chroot than with a full distro. This provides them with a very powerful and adapted tool to their long term perceived to be too high. This issue is particularly strong in TV.

Under a simple UI, it reuses the osc command line tools delivered plugin are created and on an extension of mic2 and remains core of OBS. It will be published under License: GPLv2.

The osc plugin for automatic patch creation are designed to be re-used.

wiki: http://wiki.mee-go.com/OBS_Light
GIT: <https://mee-go.gitorious.org/mee-go-developer-tools/obs-light>
Bug: <https://bugs.mee-go.com/buglist.cgi?product=Development>

root Password: opensesue
tux Password: opensesue

Download

Downloaded 34 times Cloned 9 times

Media Virtual

VMware /VirtualBox /KVM image

Whether you use VMware, VirtualBox, or KVM, this vmdisk is a ready-to-use image.

View install instructions... VMware Image, 529 MB, MDS: 3c1b8443ca501b79de2a2a

Oracle VM VirtualBox Manager

Details Snapshots

with stem long early right al) ch a ble OBS

General

Name: OBSLight
OS Type: openSUSE

Preview

Appliance Import Wizard

MeeGo_OBS_Light-0.4.32

- ht-0.4.32
- MeeGo_O...sk1.vmdk
- MeeGo_O...0.4.32.mf
- MeeGo_O...4.32.ovf

Aperçu :

Nom MeeGo_OBS_Light-0.4.32.ovf
Type Open Virtualization Format
Taille 8 Ko sur le disque
Créé le avant-avant-hier 15:57
Modifié le avant-avant-hier 15:57
Dernière avant-avant-hier 15:57

Nouveau dossier Annuler Open

Build Status

OS	Architecture	Status	Count
Debian_6.0	armv8el	disabled	8
Debian_6.0	i586	disabled	8
Fedora_15	i586	disabled	8
Fedora_15	x86_64	disabled	8
Fedora_16	i586	failed	7
Fedora_16	x86_64	failed	7
Ubuntu_10.04	i586	failed	1
Ubuntu_10.04	x86_64	failed	7
Ubuntu_11.04	i586	disabled	8
Ubuntu_11.04	x86_64	disabled	8
Ubuntu_11.10	i586	failed	1
Ubuntu_11.10	x86_64	failed	7
openSUSE_11.4	i586	failed	1
openSUSE_11.4	x86_64	failed	7
openSUSE_12.1	i586	failed	1
openSUSE_12.1	x86_64	failed	6
openSUSE_12.1	x86_64	excluded	1
openSUSE_12.1	x86_64	failed	1
openSUSE_12.1	x86_64	excluded	1

OBSLight

Modify – Create your packages

120mn

The screenshot shows the OBS Light interface. At the top, there are menu options: File, Project, Window, Help. Below that, there are tabs for 'OBS Projects' and 'MIC Projects'. A list of packages is shown, including 'meego-tv-1.2' and 'meegotv-dhg'. A table displays package details:

Package	OBS status	Rev	Local status	Rev	Filesystem status
UMMS	succeeded	8	Succeeded	8	Installed
meego-tv-bro...	succeeded	28	Succeeded	28	Not installed

A dialog box titled 'obs lightgui' is open, displaying 'Executing %build section of UMMS'. Below the dialog, there is a section for 'meego-tv-1.2' with a description 'Unified Multi Media Service'. At the bottom, there are buttons for 'Project' (New, Import, Delete, Save, Modify, Load) and 'Package' (New, Import, Update files, Delete, Commit changes, Modify, Repair directory, Refresh status). On the right, there are buttons for 'Repository', 'Project filesystem', and 'Spec file' (New, Import, Delete, Modify), with the 'New' button for 'Spec file' circled in blue.

The screenshot shows a file manager window titled 'Local directory' and 'Project filesystem'. It displays a tree view of the project structure:

- root
 - UMMS
 - rpmbuild
 - BUILD
 - umms-0.0.1
 - autom4te.cache
 - config
 - intl
 - libummsclient
 - spec
 - src
 - glue
 - audio-manager-e...
 - audio-manager-e...
 - audio-manager-in...
 - com.UMMS.conf
 - com.UMMS.service
 - com.UMMS.servic...
 - dvb-player.c
 - dvb-player.h

Below the file manager, a text editor window titled 'dvb-player.c - KWrite' is open, showing C code with various includes and macros:

```
#include <string.h>
#include <stdio.h>
#include <netdb.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <unistd.h>
#include <netinet/in.h>
#include <fcntl.h>
#include <gst/gst.h>
#include <gst/interfaces/xoverlay.h>
/* for the volume property */
#include <gst/interfaces/streamvolume.h>
#include <gst/app/gstappsink.h>
#include <X11/Xlib.h>
#include <X11/Xatom.h>
```

OBSLight

Auto create your patches

5mn

The screenshot shows the OBSLight interface with several components:

- Local directory:** A tree view showing the project structure under 'root' and 'UMMS'. The 'UMMS' directory is expanded, showing sub-directories like 'rpmb...' and 'obsli...'. The 'Open terminal' button is circled in blue.
- Project filesystem:** A list of files and folders, including 'engine-gst.h', 'umms_server-audio-manager-interface.o', 'Makefile', 'media-player.c', etc. The 'Documents : bash' window is also visible.
- Terminal:** A terminal window showing the command `diff --git a/src/umms-object-manager.c b/src/umms-object-manager.c` and its output, which includes a patch header and code changes. The terminal output is:

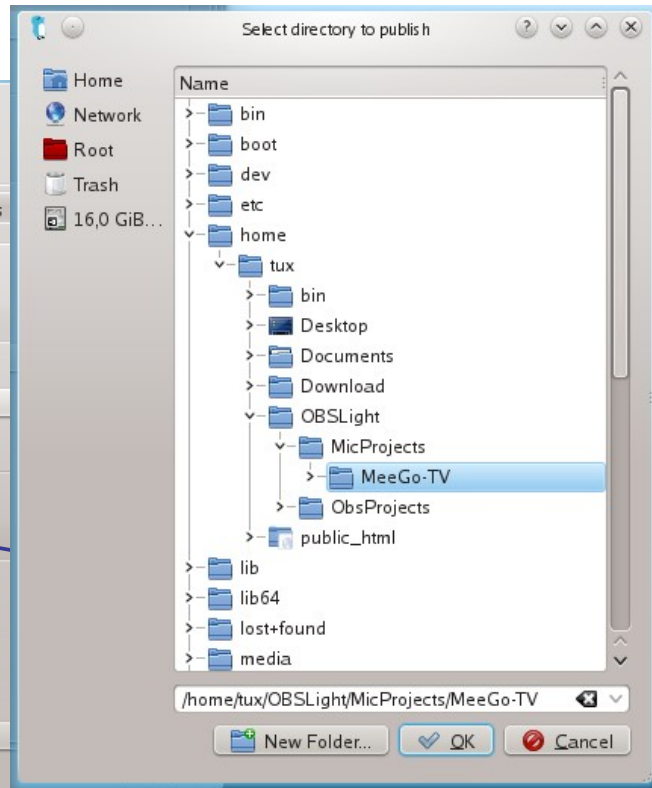
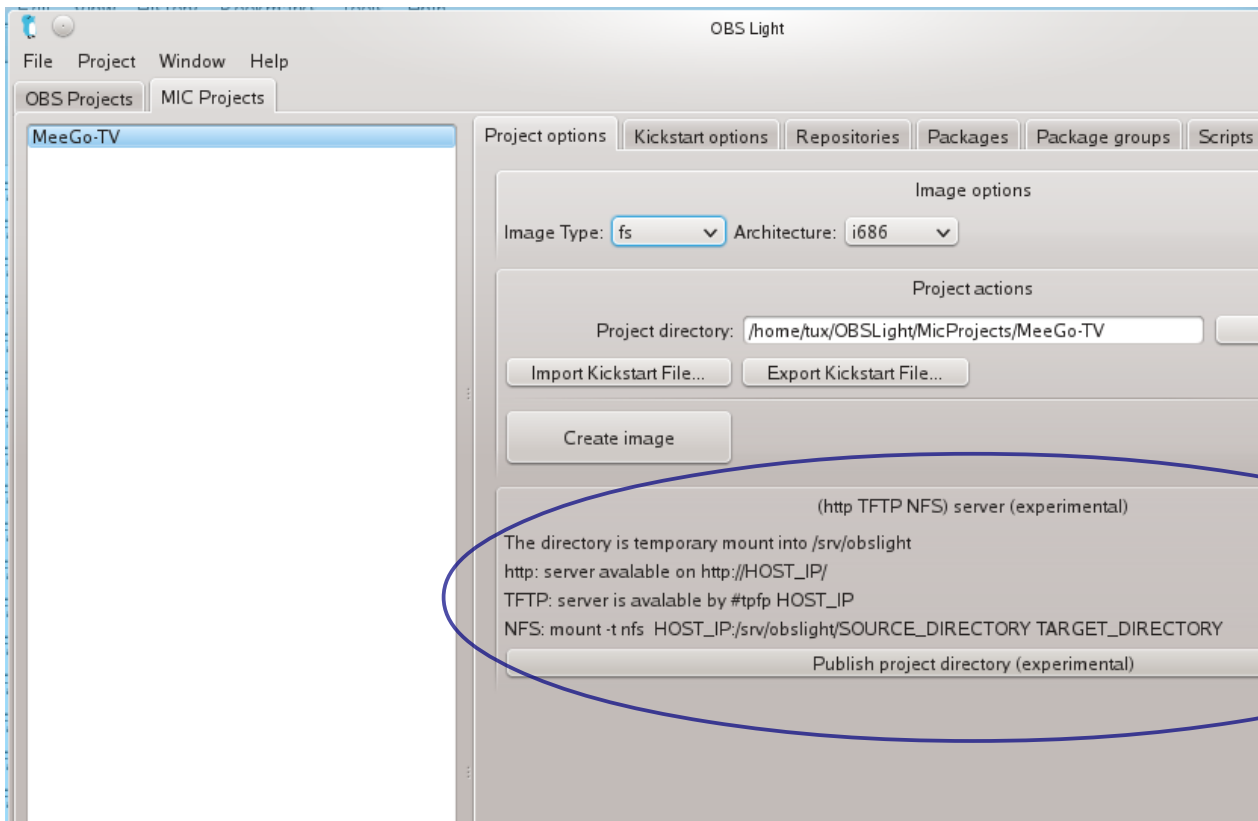
```
diff --git a/src/umms-object-manager.c b/src/umms-object-manager.c
index 01cfb59..2744b67 100644
--- a/src/umms-object-manager.c
+++ b/src/umms-object-manager.c
@@ -21,6 +21,9 @@
 *
 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 0
 */

+/* This is my fake addition of new code
+ * which demonstrates the automation of patch creation
+ */
#include <dbus/dbus-glib-lowlevel.h>
#include <dbus/dbus-glib.h>
```
- File browser:** A window showing the 'Local directory' and 'Project filesystem' tabs. The 'Project filesystem' tab is active, showing a list of files: 'Makefile', 'MyDemoPatch.patch', 'umms-0.0.1.tar.gz', 'umms.changes', 'umms.spec', and 'umms.yaml'. The 'MyDemoPatch.patch' file is selected. The 'Open terminal' button is circled in blue.
- Package path:** A text field containing the path `light/ObsProjects/meeego-tv-1.2/devel.tv:1.2/UMMS`.
- Buttons:** 'New' and 'Patch' buttons are visible at the bottom, with the 'Patch' button circled in blue.

OBSLight

Create an Image for target

60mn



OBSLight

First Test user feedback

WIND RIVER

We have used OBS Light to successfully deploy Tizen on our Berryville-based Intel development board and integrate Intel TPV library (Third Party Vendor) to control the hardware instrumentation blocks in the SoC.

The OBSLite appliance comes with lots of sensible presets that render package development seamless be they coming from our own local tree or pulled down from an official Meego repository. Nice extras such as git integration in local chrooted RPM builds allow for easy patch revision. Thanks to the prepackaged development environment and server setup done by OBSLite, **we were able to build and deploy an entire Meego distribution and integrate a few of our own packages in less than a week!**

Vincent Rubiolo Technical Staff

Sébastien Douheret Technical Staff

Wind River Tools R&D Vannes (Fr)

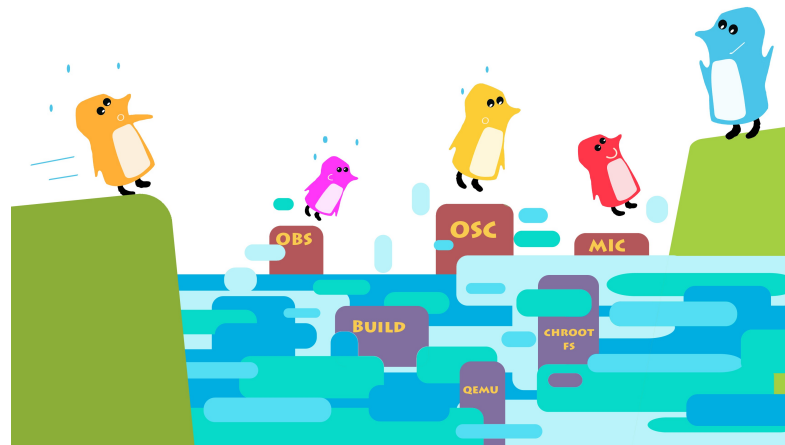


OBSLight

Todo

- GUI for obstag and obscopy
- Boot Strap without a private OBS
- Wizard for packages creation from scratch
- Import of other package format
- More better nicer documentation
- Integration into Eclipse
- Integration of QEMU

OBS LIGHT



OBSLight

More

- Intro videos
http://wiki.meego.com/OBS_Light_Manual#Videos_training
- Appliances
<http://susestudio.com/a/e0uuBG/meego-obs-light>
- Tools Kit for various distro
<http://wiki.meego.com/ObsLightDeliverable>
- User Manual
http://wiki.meego.com/OBS_Light_Manual
- FAQ
http://wiki.meego.com/OBS_Light_FAQ
- Bug and Missing Features
<https://bugs.meego.com/buglist.cgi?product=Development%20Tools&component=OBS%20Light>
- The Mailing list
<http://lists.meego.com/listinfo/meego-distribution-tools>

obsight - Recherche Google

http://www.google.fr/search?client=safari&rls=en&q=obsight&ie=UTF-8&oe=UTF-8&red

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Add Repository - openSUSE Bui... openSUSE:Build Service private i... Show Project Project:OBS_Li

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<http://www.google.com>

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wiki.meego.com/OBS_Light - Traduire cette page

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Maps

Vidéos [OBS Light FAQ - MeeGo wiki](#)
wiki.meego.com/OBS_Light_FAQ - Traduire cette page

Actualités 17 Feb 2012 - While running an **OBS Light** appliance is simple and easy and just requires 1GB of RAM allocated to the virtual machine, running an OBS ...

Shopping

Plus [OBS Light Manual - MeeGo wiki](#)
wiki.meego.com/OBS_Light_Manual - Traduire cette page

Rennes
Changer le lieu

Le Web [MeeGo OBS Light - SUSE Gallery](#)
susestudio.com/a/e0uuBG/meego-obs-light - Traduire cette page

Pages en français 23 Feb 2012 - If you have (or are thinking about) selecting MeeGo but you cannot put all the code you want to build on OBS, the public, cloud-based MeeGo ...

Pages en langue étrangère traduites [obs-light in MeeGo Developer Tools - MeeGo](#)
gitorious.org/meego-developer-tools/obs-light - Traduire cette page

Plus d'outils **obs-light**. TV Integrators are coming from the embedded world and are more ... The project's propose is to create and to publish a **OBS light** which can be ...

[OBS Light Sources and Photodetectors](#)
www.d-a-instruments.com/diodes.html - Traduire cette page

OBSLight

Q&A



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