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Section 1

GNOME Radio 16 on GNOME 42

GNOME Radio 16 National Public Radio broadcasts for GNOME 42

GNOME Radio 16 is available with Hawaii Public Radio (NPR) and 62 British Broadcasting Corporation (BBC) live audio broadcasts for GNOME 42. The latest GNOME Radio 16.0.43 release during GUADEC 2022 (between July 20-25, 2022) features 200 international radio stations and 110 city map markers around the world, including National Public Radio, 62 BBC radio stations broadcasting live from United Kingdom and 4 SomaFM radio stations broadcasting live from San Francisco, California.

National Public Radio (NPR) broadcasts on GNOME 42

GNOME Radio 16 for GNOME 42 is available with National Public Radio (NPR) live audio broadcasts.

GNOME Radio 16 is the successor to GNOME Internet Radio Locator built for GNOME 42 with Cairo, Clutter, Champlain, Maps, GStreamer, and GTK+.

GNOME Radio 16 for GNOME 42 is a Free Software program that allows you to easily locate Free Internet Radio stations by broadcasters on the Internet with the help of map and text search.

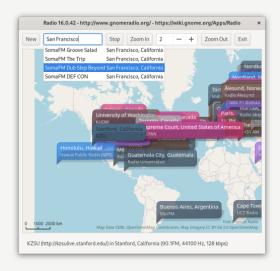
National Public Radio (NPR) broadcasts on GNOME 42



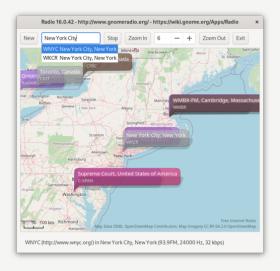
GNOME Radio 16 for GNOME 42 Stanford (KZSU) broadcasts on GNOME 42



San Francisco (SomaFM) broadcasts on GNOME 42



New York Public Radio (WNYC) broadcasts on GNOME 42



Packaging

Fedora Core 36 software installation packages of GNOME Radio 16.0.43 for the computer hardware architecture x86_64 and Source are now available for download and installation with the package management and network installation system tools rpm and dnf.

Fedora Core 36 x86_64 RPM installation

sudo dnf install http://people.gnome.org/~ole/fedora/RPMS/x86_64/gnome-radio-16.0.43-1.fc36.x86_64.rpm

Fedora Core 36 Source RPM Installation

- 👸 sudo dnf install gnome-common
- 👸 sudo dnf install intltool libtool gtk-doc geoclue2-devel yelp-tools
- 👸 sudo dnf install gstreamer1-plugins-bad-free-devel geocode-glib-devel
- 👸 sudo dnf install libchamplain-devel libchamplain-gtk libchamplain geoclue2
- sudo rpm -Uvh http://people.gnome.org/~ole/fedora/SRPMS/
 gnome-radio-16.0.43-1.fc36.src.rpm
- sudo rpmbuild -ba /root/rpmbuild/SPECS/gnome-radio.spec
- sudo rpm -Uvh /root/rpmbuild/RPMS/*/gnome-radio-16.0.43*.rpm

Section 2

Compiling from Source

Compiling GNOME Radio 16 on GNOME 42 gnome-radio 16.0.43

```
git clone https://gitlab.gnome.org/ole/gnome-radio.git
cd gnome-radio
./autogen.sh
./configure
make
sudo make install
gnome-radio
```

GNOME Radio Future

org.gnome.Radio

The new application org.gnome.Radio is available with live audio broadcasts for GNOME 42.

org.gnome.Radio is developed on the GNOME 43 desktop platform with GNOME Maps, GeoClue, libchamplain and geocode-lib and it requires at least GTK4 and GStreamer 1.0 for audio playback.

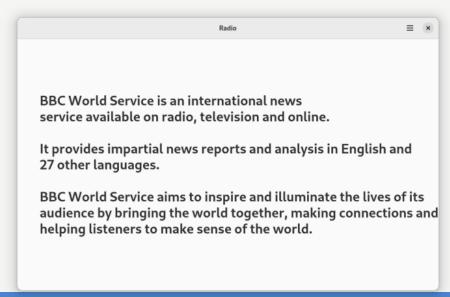
The latest org.gnome.Radio release during GUADEC 2022 (between July 20-25, 2022) features BBC World Service from London, United Kingdom and is available from https://www.gnomeradio.org/~ole/radio/

GNOME Radio 43 - org.gnome.Radio

org.gnome.Radio.c

```
#include <gst/player/player.h>
#include <gtk/gtk.h>
static void activate (GtkApplication * app, gpointer user data) {
  GtkWidget *window; GstPlayer *player;
  window = gtk application window new(app);
  gtk window set application (GTK WINDOW (window),
                               GTK APPLICATION(app)):
  gtk window set title(GTK WINDOW(window), "Radio");
  gtk_window_set_default_size(GTK_WINDOW(window), 800, 600);
  gtk widget show (window);
  player = gst player new (NULL,
    gst player g main context signal dispatcher new(NULL));
  gst player set uri (GST PLAYER (player),
    "http://stream.live.vc.bbcmedia.co.uk/bbc world service");
  gst player play (GST PLAYER (player));
int main(int argc, char **argv) {
  GtkApplication *app;
  int status:
  gst init(&argc, &argv);
  gst init(NULL, NULL);
  app = gtk application new ("org.gnome.Radio",
                             G APPLICATION FLAGS NONE):
                             g signal connect(app, "activate",
                             G CALLBACK (activate), NULL);
  status = g application run(\overline{G} APPLICATION(app), argc, argv);
  g object unref(app);
  return status;
```

org.gnome.Radio for GNOME 43 BBC World News (BBC) broadcasts on GNOME 43



Compiling org.gnome.Radio in GNOME Builder

org.gnome.Radio is available with meson build system

GNOME Builder is a Graphical Development Tool released by Christian Hergert who presented it at GUADEC 2015.

See https://wiki.gnome.org/Apps/Builder for details on how to install it. After you have installed GNOME Builder, you can clone the GNOME Radio 45 for GNOME 42 repository on Gitlab and built it.

- git clone https://gitlab.gnome.org/ole/gnome-radio.git
- meson build .
- cd build/
- 👸 sudo ninja install
- org.gnome.Radio

Running org.gnome.Radio on GNOME 43 gnome-radio 45.0 is available

Three options for running the new application gnome-radio from GNOME Shell and GNOME Terminal:

- 1. Click on Activities and select the GNOME Radio icon.
- 2. Search for "gnome-radio" in the search box.
- 3. Type "gnome-radio" and hit Enter in GNOME Terminal if you are unable to find the Radio icon in GNOME 43 and GNOME Shell.

Questions? ole@gnome.org



- * https://gitlab.gnome.org/ole/gnome-radio.git
- * https://wiki.gnome.org/Apps/Radio
- * https://www.gnomeradio.org/~ole/radio/