

# Aamot Research & Innovation

Pioneering Open-Source Internet Radio & Audio Recording Software

**Company:** Aamot Research & Innovation / Aamot Innovation

**Focus:** Internet Radio Software & Audio Recording Software for the Open Web

[gnomeradio.org](http://gnomeradio.org) | [garagejam.org](http://garagejam.org)

# Open-Source Software Shapes the Future of Audio on the Internet

The global internet radio market is growing rapidly, with millions of listeners accessing free, open audio streams daily.

Proprietary platforms restrict access, impose licensing fees, and limit freedom of speech in many regions.

Open-source software built on open standards — such as **Ogg Vorbis** and **XSPF** — democratizes audio access worldwide.

Aamot Research & Innovation was founded to address this gap: building free, open, and academically grounded audio software for the GNU/Linux ecosystem and beyond.

Rooted in research published at **GUADEC** (GNOME Users and Developers European Conference) and a BSc Thesis (2020), the company bridges academic rigor with practical software engineering.

# Aamot Research & Innovation: Research-Driven Audio Software for the Open Web

Founded and led by Ole Aamot, researcher and software engineer.

Operates at the intersection of open-source software, internet radio, and audio recording.

Academic publications presented at **GUADEC 2022, 2023, and 2024**; BSc Thesis published 2020.

Software distributed freely under open-source licenses for Linux, macOS, and GNOME desktop environments.

[ole@aamot.org](mailto:ole@aamot.org) | [gnomeradio.org](http://gnomeradio.org) | [garagejam.org](http://garagejam.org)

## GNOME Radio

Flagship Internet Radio software delivering hundreds of global stations and map-based discovery directly to the desktop.

## GarageJam

Flagship Music Studio Recording software enabling musicians to compose, record in Ogg Vorbis, and share seamlessly.

# GNOME Radio 75.0 Delivers 240 Stations and Global Map Discovery to GNOME Users

GNOME Radio is free Internet Radio software for the GNU Network Object Model Environment (GNOME).

Latest release: **Version 75.0** — released March 27, 2026, for GNOME 50.

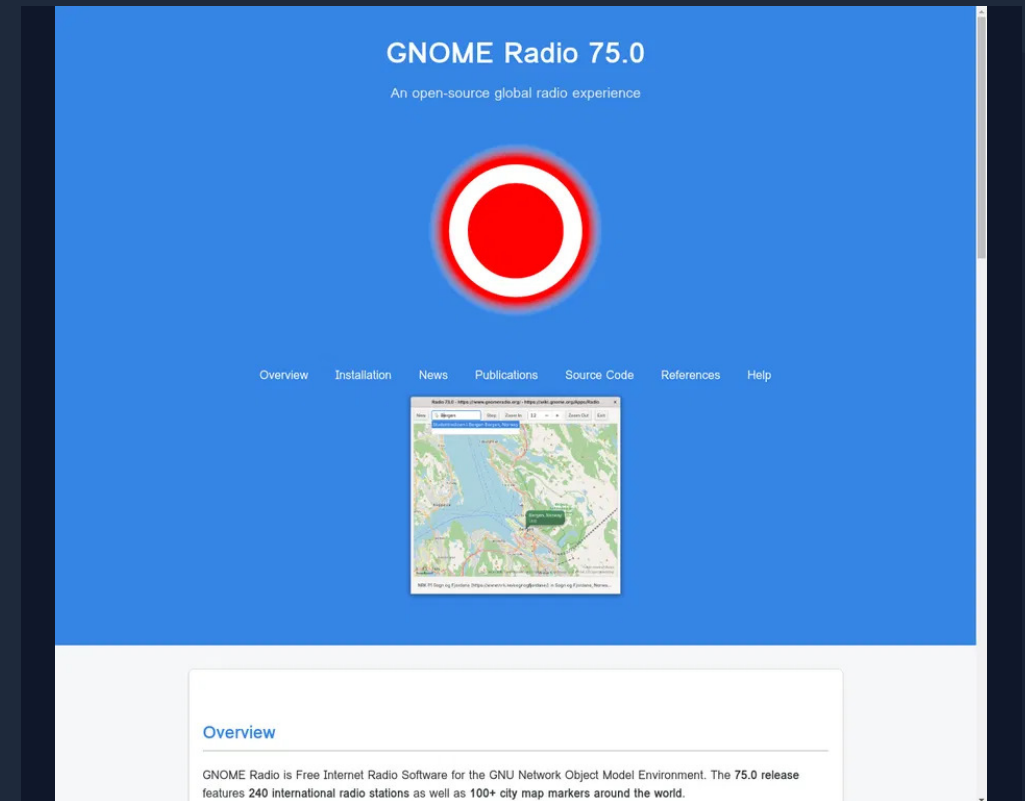
Features **240 international radio stations** covering diverse genres and languages.

Includes **100+ city map markers** around the world for geographic radio discovery.

Available on: Debian 14 / Ubuntu 26.04, Fedora Asahi Remix 43, Fedora Core 43, macOS (via MacPorts).

Repo: [gitlab.stud.idi.ntnu.no/olekaam/radio.git](https://gitlab.stud.idi.ntnu.no/olekaam/radio.git)

Web: [www.gnomeradio.org](http://www.gnomeradio.org)



# GNOME Radio Is Backed by Peer-Reviewed Research and GUADEC Presentations

## BSc Thesis (2020)

"Public Internet Radio Client for Accessing Free Audio Maps in Countries with Free Speech" — foundational academic work establishing the project's mission.

## GUADEC 2022

"GNU Network Object Model Environment Radio 16 on GNOME 42"

## GUADEC 2023

"GNU Network Object Model Environment Radio 64 on GNOME 44"

## GUADEC 2024

"GTK Radio on GNOME 46"

## Grounded in Seminal Works

Shannon (1948) *A Mathematical Theory of Communication*

Nielsen & Chuang (2021) *Quantum Computation and Quantum Information*

Piccardo et al. (2019) *Laser Radio Transmitter*, MIT Lincoln Laboratory

*This academic lineage distinguishes GNOME Radio from commercial alternatives.*

# GarageJam Empowers Musicians to Compose, Record, and Share Music on the Open Web

GarageJam is an open-source music recording studio for GNOME, enabling musicians to compose, record, and share original music on the Internet.

## Latest Release

GarageJam 6.0.1

## Seamless Sharing

Auto-generates **XSPF 1.0 playlists** for easy distribution.

## Professional Workflows

Integrates the **Gingerblue Recording Studio API**.

## Open Audio Codec

Supports immediate audio recording in **Ogg Vorbis (.ogg)** format.

## Metadata Editing

Built-in editing via **.jam XML files** using a GTK+/GNOME Wizard interface.

# GarageJam's Cross-Platform Support and IETF Standard Maximize Developer and User Reach

## Platform Support

Fedora Core 42 (aarch64 & x86), Fedora Core 43 (x86), Ubuntu 24.04 LTS, macOS Tahoe 26.3 (DMG, PKG, MacPorts).

## Gingerblue Studio

The commercial counterpart: a professional Music Recording and Audio Recording App for the World Wide Web, written by Aamot Innovation.

## Open-Source Ecosystem

Open-source licensing ensures community adoption and long-term sustainability.

Repository: [gitlab.gnome.org/okaamot/garagejam.git](https://gitlab.gnome.org/okaamot/garagejam.git)

## IETF Draft Standard

GarageJam XML (draft-aamot-garagejam-xml-01) — a proposed internet standard for music metadata interoperability.

## Developer API

Available in C with comprehensive HTML and PDF documentation to support third-party integrations.

# Both Products Are Built on a Robust, Open, and Interoperable Technology Stack

Component	GNOME Radio 75.0	GarageJam 6.0.1
Desktop Environment	GNOME 50	GNOME (GTK+)
Audio Format	Internet Radio Streams	Ogg Vorbis (.ogg)
Playlist Standard	—	XSPF 1.0
Metadata Format	—	.jam XML (IETF Draft)
API	—	Gingerblue Recording Studio API
Platforms	Linux, macOS	Linux, macOS
License	Open Source	Open Source
Repository	GitLab (NTNU)	GitLab (GNOME)

Both products adhere to free and open standards, ensuring long-term interoperability and community trust.

# The Global Internet Radio Market Presents a Significant Opportunity for Open-Source Solutions

Internet radio listenership continues to grow globally, driven by mobile access and broadband expansion.

Existing commercial platforms (Spotify, Apple Music, iHeartRadio) are closed, subscription-based, and restrict free speech in certain jurisdictions.

**GNOME Radio** uniquely addresses the need for free, open, map-based radio discovery in countries with free speech protections.

**GarageJam** targets independent musicians and developers who need a free, open-source studio alternative to proprietary DAWs (GarageBand, Audacity).

The **GNOME desktop ecosystem** has millions of active users worldwide — a ready, technically literate audience.

Open-source adoption in audio software is accelerating, with communities actively seeking libre alternatives.

# Aamot Research & Innovation Is Positioned for Continued Growth and Academic Impact

## **GNOME Radio**

Continued version releases aligned with GNOME release cycles; expanding station database beyond 240; deeper map integration and geolocation features.

## **GarageJam**

Advancing the IETF GarageJam XML standard toward formal RFC status; expanding Gingerblue Studio API capabilities; growing cross-platform support.

## **Research**

Continued presentations at GUADEC and other open-source conferences; potential journal publications building on BSc Thesis work.

## **Commercial**

Gingerblue Studio as a commercial SaaS offering for professional musicians and broadcasters.

## **Community**

Growing open-source contributor base via GNOME GitLab; developer documentation and API expansion.

# Aamot Research & Innovation Combines Academic Credibility, Open-Source Traction, and Commercial Potential

## Proven Track Record

Multiple GUADEC publications, BSc Thesis, and active software releases since 2020.

## Standards Leadership

IETF draft standard (GarageJam XML) positions the company as an authority in open audio metadata.

## Mission-Driven

Committed to free speech, open access to audio, and democratizing music creation globally.

## Dual Product Strategy

Free open-source products (GNOME Radio, GarageJam) drive adoption; commercial Gingerblue Studio generates revenue.

## Platform Alignment

Deep integration with GNOME ecosystem — one of the most widely used open-source desktop environments.

## Low Overhead, High Impact

Lean research-driven team with strong academic and open-source community ties.

# Partner with Aamot Research & Innovation to Build the Open Audio Future

## Try the Products

GNOME Radio 75.0: [www.gnomeradio.org](http://www.gnomeradio.org)

GarageJam 6.0.1: [www.garagejam.org](http://www.garagejam.org)

## Contribute & Partner

Join our GitLab repositories for community contributions.

Explore opportunities for research collaboration, API integration, and commercial licensing of Gingerblue Studio.

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*"An open-source global radio experience"*