Open Source in Thales

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WHO AM I?

- **Software** Architect, Technical Directorate
- 20 years of dev / architecture / design
- Open Source **enthusiast**, help people in Thales to **share** and **contribute**
Over 77000* employees

68 Countries
Global presence

€1 bn Self-funded R&D**

Sales in 2022 €17,6 bn

* Excluding ground transportation

** Does not include externally financed R&D
Thales’s Mission

WE HELP CUSTOMERS MASTER DECISIVE MOMENTS BY PROVIDING THE RIGHT INFORMATION AT THE RIGHT MOMENT
Thales Open Source Hardware

- Sovereignty
- Open source community
- Security & Safety
- SWaP & customization

Invests in RISC-V

Open Hardware group technical LEADER

- No vendor-locking
- Large ecosystem
- Performance

Image source: Internet, Fotolia / psvetlana
Objectives

THALES

to become a first class actor

FOSTER

OSS model across all GBUs

DEVELOP

software hardware communities
Strategy

RELY ON
the success
of Inner Source

PROVIDE
an unique
OSS process

FACILITATE
communication
between all
contributors
Thales OSS governance

**COMMITMENT**
- Technical experts
- Legal experts
- Management
- Strategic support

**ACTIVE MEMBERSHIPS**
- Linux Foundation
- OpenHardware Group
- RISC-V International
- Eclipse Foundation
- OSPO Alliance / GGI
- Systematic OSS Hub
- OASIS

**THALES OSPO**

**USE**

**CONTRIBUTE**

**PUBLISH**

Image source: Internet, Fotolia / psvetlana
Thales OSS process & tools

- Publication requests
- Contribution requests
- Approval steps
- Efficiency over process
- Shared by all Thalesians

OSS CLEARANCE

- Mandatory step
- Vulnerability Assessment
- OSS compliance
- Continuous Risk management
- SCA tooling

Image source: Internet, Fotolia / psvetlana
Follow the Thales OSS process to publish
- New OSS asset **MUST** be deployed here
- Monitor security alerts
- Templates for best practices

**OUR OSS ASSETS**

Ranking made by Clarivate Analytics

**https://github.com/thalesgroup**

Thales GitHub organization
Thales GitHub organization

- 180 repositories
- 160 users
- 50% forks
- 50% assets
You are free to contribute to any project on any foundation.

**Our Rules**
- Preserve Thales reputation
- Follow the Thales OSS process
- Respect the foundation rules
- Fork into our GitHub
FREYJA

**BL: SIX – Theresis CYBER**
VM MANAGER, CLI, ROOTLESS, KVM/QEMU/LIBVIRT BUT EASIER, IMMUTABLE OS.

Freyja is a solution developed by ThereSIS Cyber to help developers deploying virtual guests very easily, on a daily basis, with simple YAML configurations. Working with KVM, QEMU and LIBVIRT, it is compliant with almost every Linux distribution for hypervision. Starting from an OS image for QEMU, just configure your virtual guests in one YAML file and deploy them with one single command.
It also supports Cloud-Init and Ignition for OS configurations and provisioning, even if they are read-only.

Open & Inner Source

**Official documentation:** [https://theresis.pages.thalesdigital.io/freyja/](https://theresis.pages.thalesdigital.io/freyja/)
**Main contacts:** louis.cailliot@thalesgroup.com; olivier.bettan@thalesgroup.com;
Return of experiences after 3 years

From cost reduction to **Open Innovation**

**OSS mindset**: use, contribute, publish

Open Source initiates **synergies**

Towards OSS **business models**

Image source: Internet
THANK YOU

STAY IN TOUCH!

- https://github.com/thalesgroup
- oss@thalesgroup.com