

Open Source in Thales

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Sébastien **LEJEUNE**



WHO AM I?

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





Thales overview

77000*
employees

68
Countries
Global presence

€1 bn 💍
Self-funded R&D**

* Excluding ground transportation

** Does not include externally financed R&D

Sales in 2022 € 17,6bn



Thales's Mission

SENSING & DATA GATHERING

DATA TRANSMISSION & STORAGE

DATA PROCESSING & DECISION MAKING



Digital Identity and Security



Defence and Security



Aerospace



Space



Ground Transportation

WE HELP CUSTOMERS **MASTER DECISIVE MOMENTS**BY PROVIDING THE RIGHT INFORMATION AT THE RIGHT MOMENT



Thales Open Source genesis

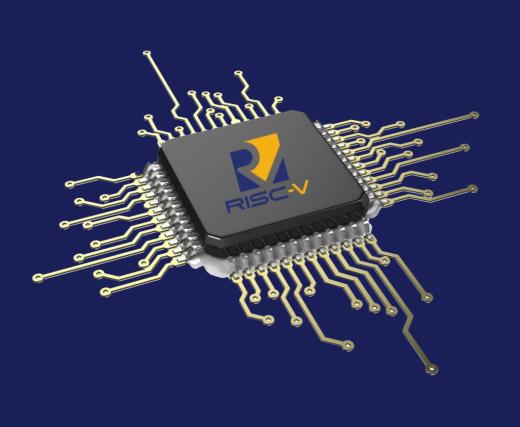


THALES OPEN SOURCE

Thales Open Source Hardware

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

in RISC-V



Open Hardware group technical **LEADER**

- No vendor-locking
- Large ecosystem
- Performance



Objectives

to become a first class actor

FOSTER

OSS model
across
all GBUs

DEVELOP software hardware communities

Strategy



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

THALES OSPO



USE

CONTRIBUTE

PUBLISH

MINDSET

ACTIVE MEMBERSHIPS

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



Thales OSS process & tools

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

OUR PROCESS

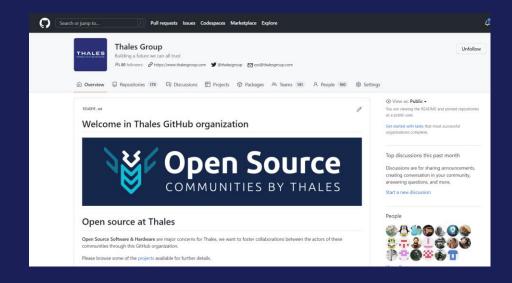


OSS CLEARANCE

- Mandatory step
- Vulnerability Assessment
- OSS compliance
- ContinuousRisk management
- SCA tooling



Thales GitHub organization



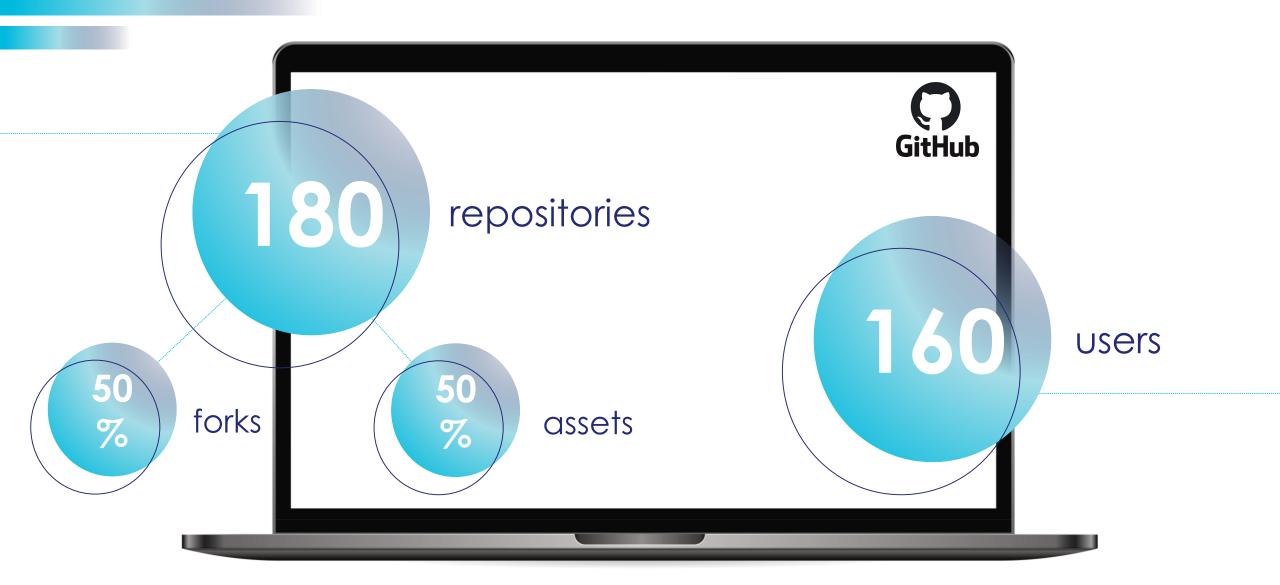
OUR OSS ASSETS

https://github.com/thalesgroup

- Follow the Thales OSS process to publish
- New OSS asset MUST be deployed here
- Monitor security alerts
- Templates for best practices



Thales GitHub organization





Thales GitHub organization

You are **free**to **contribute**to any project on any **fundation**

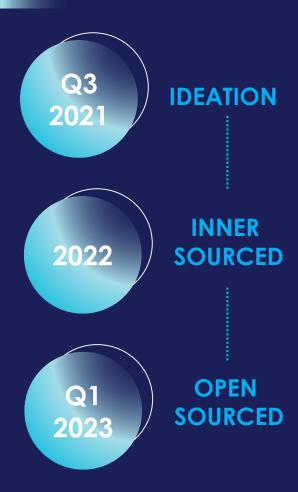
OUR CONTRIBUTIONS

Our Rules

- Preserve Thales reputation
- Follow the Thales OSS process
- Respect the fundation rules
- Fork into our GitHub



From Inner to Open source



FREYJA

BL: SIX - Theresis CYBER

VM MANAGER, CLI, ROOTLESS, KVM/QEMU/LIBVIRT BUT EASIER, IMMUTABLE OS.

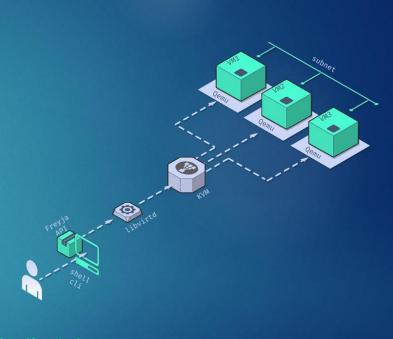
Freyja is a solution developed by ThereSIS Cyber to help developers deploying virtual guests very easily, on a daily basis, with simple YAML configurations.

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/
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









