





OPEN SOURCE + INDUSTRY = OSADL

OSADL































































































OSADL IS THE COMMUNITY FOR OPEN SOURCE IN INDUSTRY

The Open Source Automation Development Lab (OSADL) eG provides everything that is needed to use, distribute and license Open Source software components in industrial products. This includes the software itself, but also considers quality, licensing and compliance as well as safety and security aspects.

The OSADL business model is based on the principle: Develop once for the use of many.



OSADL TECHNICAL SERVICES

OSADL delivers expert technical support for using Open Source software in industrial products.

OSADL QA Farm Real-tire









The OSADL QA Farm

www.osadl.org/qa

- → is a quality assurance and assessment test center for embedded systems
- → monitors and optimizes hardware and software of about 200 Linux and other computer systems
- → ensures general reliability and stability and provides fine-tuning of individual systems
- → helps companies select the most appropriate embedded system for a particular application
- → offers a wide variety of research opportunities for scientific studies
- → rack space is included in the regular OSADL membership

The OSADL real-time Linux services

www.osadl.org/rt

- → are based on the so-called PREEMPT_RT patches of the Linux kernel
- → help companies get the most out of Linux-based real-time systems
- → include kernel additions to detect the origin of unsatisfying real-time behavior ("latency fighting")
- → are closely coordinated with the Linux Foundation RTL Collaborative Project and include funding of the work



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The OSADL OPC UA PubSub over TSN project

www.osadl.org/opcua

- → is committed to foster the development of next generation real-time communication via Ethernet
- → is closely related to the open62541.org project on an Open Source implementation of OPC UA PubSub
- → includes activities to improve TSN support of the Linux kernel
- → uses the OSADL QA Farm to continuously demonstrate the performance progress of the project

Safety and security projects

www.osadl.org/safety

- → include the SIL2LinuxMP project that aims to provide documents to facilitate safety certification
- → support development of methods and services to protect embedded systems against malware
- → intend to develop a pentesting service to ensure systems withstand cyber attacks
- → help improve organizational processes of safety and security

The OSADL portfolio of technical services is continuously expanded and adapted to OSADL members' requests.



OSADL LEGAL SERVICES

OSADL has developed a broad portfolio of tools and services for Open Source license compliance and is a partner and know-how supplier for companies that use Open Source software in industrial products.















OSSelot – The Open Source Curation Database



The OSADL Open Source Policy Template

www.osadl.org/os-policy

- ightarrow helps companies establish a company-wide Open Source policy with appropriate processes
- \rightarrow is used to instruct all employees of a company how to deal with Open Source software
- → consists of a collection of documents which can be adapted to create an individual policy
- ightarrow contains supplements with in-depth training material and background information
- → is planned to take product security processes into account

The OSADL License Checklists

- → contain transcripts of over 100 Open Source licenses with respect to license obligations
- → allow to select particular use cases (e.g. source code delivery or binary delivery)
- ightarrow allow to merge the obligations of multiple licenses and check for license compatibility
- ightarrow are recommended to be included into a company's Open Source policy
- ightarrow have been developed in close collaboration with international legal experts

www.osadl.org/checklists



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The OSADL FOSS Legal Knowledge Database

www.osadl.org/legal

- → is a practical collection of recommendations how to convey Free and Open Source software (FOSS) compliantly
- ightarrow consists of FAQ and legal assessments based on questions of general interest asked by OSADL members
- ightarrow is established and continuously expanded in close collaboration with OSADL's General Counsel
- \rightarrow is available exclusively to OSADL members

The OSADL License Compliance Audit (LCA)

www.osadl.org/lca

- ightarrow is an audit undertaken by a software specialist and a specialized lawyer
- ightarrow helps companies distribute a Linux-based system compliantly
- → focuses on the Linux kernel, C library and relevant company documents
- → provides a detailed audit report including hints to close possible gaps detected during the audit
- → if successful, is rewarded with a certificate



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The OSADL Container Base Image

www.osadl.org/base-image

- \rightarrow is a universally applicable container layer including complete licensing information
- → is available as binary-only image with template for written offer to provide the complete corresponding source code on request
- → is also available with complete corresponding source code included in the image for immediate distribution without written offer
- → is continuously updated for various architectures and frequently used distributions such as Alpine, Debian and Ubuntu

OSSelot - The Open Source Curation Database

www.osselot.org

- ightarrow provides diligently curated licensing information of commonly deployed software packages
- → is available in standardized SPDX formats for import into various tools and as ready-to-use disclosure documents
- → can easily be re-used and adapted to clear earlier or later versions of a particular software package
- ightarrow is licensed under CCO-1.0 to grant maximum freedom
- → includes tools, use cases and explanations to help benefit from the material

The OSADL portfolio of legal services is continuously expanded and adapted to OSADL members' requests.



OSADL SEMINARS & WORKSHOPS

OSADL offers a broad range of training courses, seminars and workshops (online, in-house or in Heidelberg) covering legal and technical aspects of using Open Source software in industry. Current topics include license compliance, advanced network protocols, software scanning with FOSSology, real-time Linux latency fighting, security challenges of embedded systems, safety certification of Open Source software, etc.

















The Heidelberg OSADL Talks (HOT) give an overview of the fundamental legal aspects (Legal HOT) and technical aspects (Technical HOT) to have in mind when using Open Source software in industrial products. HOT usually takes place once a year as online event.

In addition, OSADL also offers individual
Open Source information days
- a so-called "OSADL Day" – to interested
companies, either online or in-house.
Interested? Then write to office@osadl.org.

Participation in HOT and individual Open Source information days are free of charge

The Compact OSADL Online Lectures (COOL) are monthly OSADL webinars.
COOL brings new and current topics on Open Source software in industry with every edition, alternating between legal and technical aspects. Each COOL session usually consists of two lectures, the first focusing on mostly theoretical or introductory aspects of the topic of the day, while the second gives practical examples that build on the theory or introduction presented before.

Participation in COOL is free of charge

The OSADL Networking Day is a yearly OSADL member event which traditionally takes place in Heidelberg, Germany. One of the main goals of the Networking Day is to provide OSADL members a forum for technical and scientific exchange as well as networking. The Networking Day consists of various presentation sessions on a selected Open Source topic followed by a joint evening event. A limited number of places is reserved for non-member companies who would like to know what OSADL is all about and meet the community.

OSADL member event with invited guests

OSADL also offers workshops on particular topics related to Open Source software in industry. Member companies are welcome to submit suggestions for topics. Recently covered topics include license compliance, advanced network protocols, software scanning with FOSSology, real-time Linux latency fighting, security challenges of embedded systems, safety certification of Open Source software, etc.

Members: free access, Non-members: paid events

HOT event page: www.osadl.org/HOT

COOL event page: www.osadl.org/COOL

Event Overview: www.osadl.org/events



OSADL MEMBERSHIP

The Open Source Automation Development Lab (OSADL) eG is a registered cooperative and welcomes members from all over the world.





To become a regular cooperative member of OSADL, one or several shares each of 1,000 euros must be acquired once.

Regular Members can choose between three membership levels: Bronze with one share, Silver with two shares or Gold Member with three or more shares. The votes a member has in the General Assembly equals the number of shares up to three.

Most OSADL services are provided based on an annual membership contribution as flat-rate service fee of 8,000 euros per share.

Different rules apply for Associate and Academic Members.



www.osadl.org/regular-members



www.osadl.org/assoc-members



www.osadl.org/academic-members

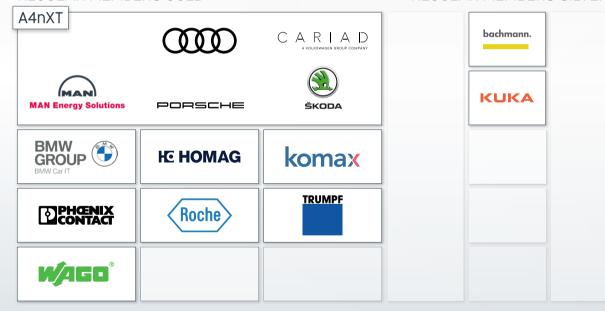
How to join the OSADL Community? www.osadl.org/join



OSADL MEMBERS As of February 2024

REGULAR MEMBERS GOLD

REGULAR MEMBERS SILVER REGULAR MEMBERS BRONZE



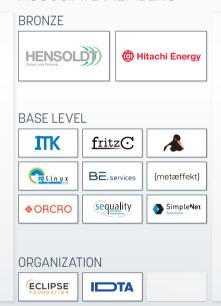
Agilent	ASEM• ASSOCIAL LUTTERSTON COPPLINT	AVL 💑	\(\triangle \triangle \tr	BACH MANN We power your life	BALLUFF
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LIEBHERR	LINUTRONIX	Mahr	MicroSys	Míele	nest field
PILZ THE SPIRIT OF SAFETY	C Polytec	PRECITEC	protonic •holland industrial electronics	RATIONAL	rexroth A Bosch Company
Sensopart	SEW EURODRIVE	SICK Sensor Intelligence.	Dentsply Sirona	stratec●●	52%
TO	TFFech industrial	utimaco°	VAILLANT GROUP	VEGA	VIESMANN
шеѕтегто	WIBU SYSTEMS	WIKAL MOBILE CONTROL	YASKAWA	✓ YELLOWTEC	



REGULAR MEMBERS BRONZE



ASSOCIATE MEMBERS



ACADEMIC MEMBERS



Updated versions of OSADL member posters: www.osadl.org/Members



INTERESTED?

Ask for an in-depth introduction to OSADL's Open Source world.

Such "OSADL Days" are free of charge and offered either via video conference or on-site.

Join OSADL and benefit from a unique experience!



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