



OPEN SOURCE + INDUSTRY = OSADL

Community

Industry 4.0

Business  
Process  
Consulting

Events,  
Seminars &  
Workshops

Community

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Industry 4.0

Community

Business  
Process  
Consulting

Safety &  
Security

License  
Compliance  
Audit (LCA)

OSADL  
Open Source  
Policy Template

OSADL  
Technical Tools  
and Services

OPC UA  
TSN

Safety &  
Security

Open Source  
License  
Compliance Tools

OSADL License  
Checklists

OSADL  
Container  
Base Image

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Quality  
Assessment  
OSADL QA Farm

Open Source  
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Real-time

Linux

OSADL  
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FOSS Legal  
Knowledge  
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OSSelot –  
The Open Source  
Curation Database

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# 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.*

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# OSADL TECHNICAL SERVICES

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



Quality  
Assessment  
OSADL QA Farm



Real-time



OPC UA  
TSN



Safety &  
Security

## The OSADL QA Farm

[www.osadl.org/qa](http://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](http://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](http://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](http://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

# 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.



OSADL  
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## The OSADL Open Source Policy Template

[www.osadl.org/os-policy](http://www.osadl.org/os-policy)

- helps companies establish a company-wide Open Source policy with appropriate processes
- 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
- contains supplements with in-depth training material and background information
- is planned to take product security processes into account

## The OSADL License Checklists

[www.osadl.org/checklists](http://www.osadl.org/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)
  - allow to merge the obligations of multiple licenses and check for license compatibility
  - are recommended to be included into a company's Open Source policy
  - have been developed in close collaboration with international legal experts
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## The OSADL FOSS Legal Knowledge Database

[www.osadl.org/legal](http://www.osadl.org/legal)

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

## The OSADL License Compliance Audit (LCA)

[www.osadl.org/lca](http://www.osadl.org/lca)

- is an audit undertaken by a software specialist and a specialized lawyer
  - 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
-

# 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.

An icon representing a document with a checklist and a magnifying glass.

OSADL  
Open Source  
Policy Template

An icon representing a document with a checklist and a pencil.

OSADL License  
Checklists

An icon representing a lowercase 'i' inside a circle.

FOSS Legal  
Knowledge  
Database

An icon representing a gear with a checkmark and an upward arrow.

License  
Compliance  
Audit (LCA)

An icon representing a stack of books or documents.

OSADL  
Container  
Base Image

The OSSelot logo, featuring a stylized cat silhouette above the text 'OSSelot' and the tagline 'THE OPEN SOURCE CURATION DATABASE' below it.

OSSelot –  
The Open Source  
Curation Database

## The OSADL Container Base Image

[www.osadl.org/base-image](http://www.osadl.org/base-image)

- 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](http://www.osselot.org)

- 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
- is licensed under CCO-1.0 to grant maximum freedom
- includes tools, use cases and explanations to help benefit from the material

# 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.



Events,  
Seminars &  
Workshops



Technical  
Open Source  
Topics



Legal  
Open Source  
Topics



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](mailto: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](http://www.osadl.org/HOT)

COOL event page: [www.osadl.org/COOL](http://www.osadl.org/COOL)

Event Overview: [www.osadl.org/events](http://www.osadl.org/events)

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# 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](http://www.osadl.org/regular-members)



[www.osadl.org/assoc-members](http://www.osadl.org/assoc-members)



[www.osadl.org/academic-members](http://www.osadl.org/academic-members)











How to join the OSADL Community? [www.osadl.org/join](http://www.osadl.org/join)

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# OSADL MEMBERS

As of February 2024

## REGULAR MEMBERS GOLD

A4nXT		
		 <small>A VOLKSWAGEN GROUP COMPANY</small>
 BMW Car IT		
		
		

## REGULAR MEMBERS SILVER

## REGULAR MEMBERS BRONZE

## REGULAR MEMBERS BRONZE



## ASSOCIATE MEMBERS

### BRONZE



### BASE LEVEL



### ORGANIZATION



## ACADEMIC 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!



[www.osadl.org](http://www.osadl.org)

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