

10 years Open Source event in Zug

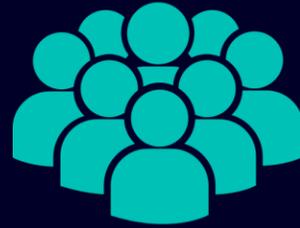


Great to have you here!

Technology & Collaboration Culture

Some little guidance regarding logistics

We have no special event team, the people running our internal social coding platform `code.siemens.com` are serving you here as guests.



It's kind of a **family like event**, you get served by SREs, GitLab MVPs, python-gitlab maintainers and friends ... people having Open Source within their blood.

01 Remote participants

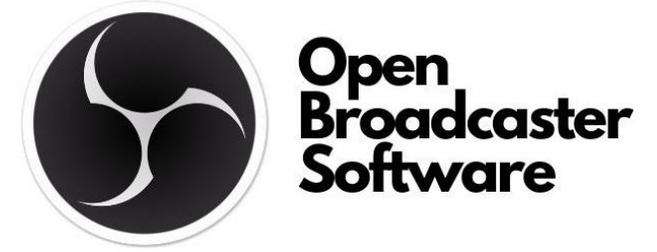
- Feel free to ask any question on the chat during the presentation
- The moderator will address them during the talk or Q&A
- Hint: You can set your Name after clicking on the profile icon

02

Presentations & recordings will be published on the event site

03 On-site

- Please use a microphone when speaking so the remote participants can hear you
- Vegan / vegetarian food is marked
- Keep the venue tidy
- Empty bottles > bar
- Trash > recycle bin
- Just as you behave at family events ;-)



Thanks!



CANONICAL



The last 10 Years

Open Source track record



2014 - 2016

Open Source @ BT in Zug



2020 - 2022

Open Source @ Siemens at the GALVANIK



2017 - 2019

Open Source @ BT at the GALVANIK



2014 – 2016 Open Source @ BT (internal only) at the Siemens Visitor Center in Zug

Topics

- License Compliance, SPDX Contributions, Apache Foundation
- Git, GitLab, Embedded Linux, C++, CMake, 2038 challenge
- Dependency Management: Java Script, NuGet

Presenters

- 2014: only Siemens people
- 2015-2016: guest speakers from HSR, Denx, Applied Informatics, Panter
- Panel Discussions
- Barbecue at the lake Zug

Title	
Open Source @ BT	
Software Clearing Process	
SPDX - Software Package Data Exchange Format	
Lunch Break	
Redistribution of Siemens Software that includes 3rd Party Software	
Title	
Using Cmake to build cross platform	Open Source @ BT
Using profiling and tracing tools or	Looking inside DCT
Git and Gitlab	FOSSologyNG and sw360
Lunch Break	
Barbecue at the Zuger Lake (Dea	IPR Infringement Risks when using 3rd Party Software - war stories fantez, VMware
DCT Support Team and collaborati	Why shall we use PostgreSQL instead of MySQL anc
Product Clearing	The Yocto testing framework
Reading Clearing Reports for Dum	POCO C++ Libraries – looking insight an Open Sou
Lunch Break	
Commercial Software Handling	DCT Support Team in Pune / Clearing Process incl.
How ASF (Apache Software Founda	License compliance in to cloud
Contributions - How to create a pa	Using Cmake to build cross platform software comp
Lunch Break	
JavaScript Dependency Management Systems	Microservices, (Docker) Container and Continuous Delivery
NuGet - Boon or Bane	Common Controller Platforms - VM, Debian Packages, CCP common
Open Source Contributions @ BT	Discussion: Topic List (we chose one of them)
Discussion: Open Source Concepts adoption within	Discussion: Open Source Concepts adoption within
mission complete & good bye	mission complete & good bye
Lunch Break	
Barbecue at Lake Zug (Details are available below)	UPDATE 30th of May: Weather condition are more than uncertain
Topic Cluster: License Compliance & Security	
FOSSology development by Siemens (e.g. experience with the comm	Clearing Operations within BT (DCT Support Team, Backlog Planning
Clearing Operations within BT (DCT Support Team, Backlog Planning	Vision and Strategy on Identifying Software and Hardware assets int
Security Vulnerabilities, up-to-date software and software distributo	
Lunch Break	
Topic Cluster: Embedded Linux	
2038 - the end of the UNIX epoch	
Annexa: First insight of eMMC	
Yocto and meta-siemens (the Layer currently managed by Common	
Discussion: see topics list above	

Innovation & Technology



Discussion with Roger Meier (second from right) during the 2015 OSS@BT Event in Zug

Basis for digitalization

Open source software (OSS) is gaining momentum at BT: certification and registration are progressing, databases are being expanded, the community is growing, and OSS use is brisk. BT is on the right track since digitalization is based on software.

OSS@BT is a model project within the Siemens group. Roger Meier, who champions OSS at Building Technologies, believes it is important to apply best practices from the OSS world throughout the entire company. The 2015 OSS@BT Event that he and his team organized took place recently in Zug.

About 50 people are participating, 20 of them via Live Meeting. Over the next two days, software experts from various Siemens Divisions, Corporate Technology (CT) and external companies will share their experiences involving platforms, technologies, trends and continued cooperation. Kicking off the event, Meier makes clear why BT is investing in OSS, the economic benefits it brings in the form of shorter throughput and development times, and how OSS helps achieve greater security. The key to success is active software management. It is important to select the existing

2017-2019 Open Source @ BT (internal only) at the GALVANIK

Topics

- Infrastructure As Code, IoT
- Containers, serverless, service mesh, APIs, SDKs
- Copyright Law, Inner Source
- Open Source within public administration, Inner Source

Presenters

- Panter, Bearing Point, RedHat, Adfinis, GitLab, Applied Informatics, 56k.cloud, Schindler, Roche

Due to construction work at the campus Zug we changed to the GALVANIK location, yeah!

Title	Topic Cluster
Door opens	
Open Source @ BT	Digital Culture
code.siemens.com - operations	Door opens
How to have as many merge requests contributing to GitLab CE on behalf of	Digital Culture
Open Source @ BT	
Lunch Break @Ristorante Prisma, Ch Please inscribe you to the lunch list @c	code.siemens.com, Infrastructure as Code & Security
Topic Cluster: Cloud, APIs, & The Open Organization @ RedHat	
SORRY, delay over her in Zug, we will	Lunch Break
API the SIMPL way: building and docu	Special Guests
*Continuous Delivery, Continuous Com	Introducing a global Linux client in a highl
Why we need to fix licensing problems	Evolution of GitLab UI over the last years
Break	Lightning Talks
BT Idea Booster - API Team Overview - Environment	<ul style="list-style-type: none"> • https://github.com/jazz-community/ • Success Factors for Knowledge Manag
Lightning Talks (15min each)	Talk at the bar: Remote Working, Sharing
<ul style="list-style-type: none"> • Blockchain introduction • LORA - Wide Area Network for IoT • Smartbuilding Recorder • 10 years CCP VM, 1 year CCP Docke 	Barbecue @Galvanik
Talk at the bar: transform Siemens to	Roche Linux Client and usage of https://www.discourse.org/ as QA platform for the community
Barbecue @Galvanik	Service Mesh (Istio), https://istio.io/
Door opens	Inner and Open Source approaches within Swiss Cantons http://www.camac.ch/de https://caluma.io/
Topic Cluster: Software Cor	Software Component Manag GitLab contributor program
Using binaries not built by Siemens	pw360 - REST API Introduction
SW360 for SW Management	Vulnerability Handling - A Legal View
DCT Support Team	Open Source in Pune
Comparison of processes and tools	Topic Cluster: Open Source & Inner Source
Innersourcing @ Pune	OSS Software Update and the MindSphere
Product Clearing	macchina.io - a powerful application so
Lunch Break @Ristorante Mediterr Please inscribe you to the lunch list @c	Metadata Management the open source v
Topic Cluster: Embedded Li	good bye
we will start at 14:00 (half hour later as planned)	Docker & Serverless
meta-siemens & Yocto way forward	Automation in Software Clearing
Collaborating on building long-term stable Linux systems - CIP, EBS and beyond	Open Source usage within Embedded System Development
talk at the bar: Collaboration within Siemens on embedded Linux	Product Translation - Inner Source Approach: bmx-translation GitLab pages
mission complete & good bye	Lunch Break
	Inner Source Bot, technical insights and usage
	Analyzing embedded devices with Prometheus and Grafana
	OSS License Compliance @Pune
	Lightning Talks:
	<ul style="list-style-type: none"> • sign commits with x509 • Thingweb
	code.siemens.com - a Gall's Law story
	Talk at the bar: The future of this event



2020-2022 Open Source @ Siemens (evolves from internal to public) at the GALVANIK

Topics

- Open Hardware, Inner Source, Community building, Security, IAM, Xenomai, 2038 journey, tracing, graphql, python-gitlab

Presenters

- White Source Software, GitLab, CAOS, Sly, University of Bern, 8gears, Denx, RedHat, bitkom, Noser, ZITADEL, Canonical, Exoscale, Dynatrace

2020: COVID mini edition internal

2021: morning internal, afternoon public video stream, new web site

2022: full public video stream

Title	Title
Speaker - Connectivity Check	latest news, Open Source and Inner Source way of working @ Siemens
Welcome to Open Source @ Siemens , past & future	libuta - The rocky road to GitHub
Simplified security with IaaS modules provided by CT CYS	OPC UA PubSub - https://github.com/siemens/opc-ua-pubsub-dotnet
OpenHardware based on RISC-V	Latest insights on container compliance - What you do wrong today!
AsciiDoc@Siemens: When to use, Tooling and Experience	lunch break
Barbecue @ Home on an individual basis => we hope t	Open Source @ Siemens
Speaker - Connectivity Check	Unsolved Problems in Open Source Security
OpenChain Conformance @ Siemens	From Monitoring to DevOps: 10+ years OSS community building
Software Clearing tooling for multiple languages and Debi	Why we built a cloud-native Open Source IAM
OSS clearing automation at DI	Insights on Open Source and Inner Source
Fossology project status and CI integration with code.siem	virtual hangout at the play.bar.siemens.chat
Looking forward for Open Source @ Siemens 2021 in G	Barbecue @ Galvanik
	Pluralistic deployment Pipelining
	<ul style="list-style-type: none">• Reusable Siemens Web Components including latest design, a SIMPL• BACK to the net: A SIMPL story
	API Management Pattern with a Focus on Collaboration and Knowledge S
	lunch break
	5 years Civil Infrastructure Platform Project - Achievements, Next Goals and Challenges
	Container Management Solutions with CNCF Project Harbor - Good cont than storing artifacts
	The year 2038 journey
	Where standard solutions fail
	Let's get technical and hands on recent open source innovations, kubevir (serverless java) and some words on the CentOS story
	virtual hangout at the play.bar.siemens.chat

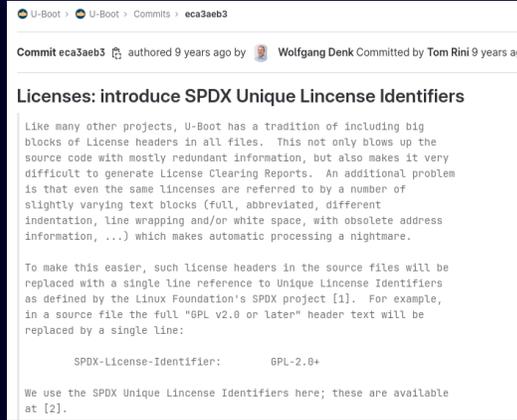


- <https://opensource.siemens.com/events/2021/>
- <https://opensource.siemens.com/events/2022/>

Some achievements to mention

Back in 2014 I talked with Wolfgang Denk here in Zug and we discussed how we could solve it with a machine-readable identifier.

SPDX-License-Identifier was born.



Nowadays used within Linux kernel and many other projects as well.



Wolfgang was such an inspiring and open-minded person; we will always remember you.



code.siemens.com
from 0 to >60k users



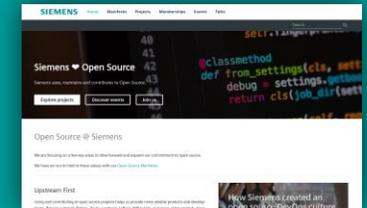
First OSADL license compliance audit



10 MVPs
>450 MRs



Inner Source
Internal yearly Summit
>1k re-use components



Public Open Source Portal
opensource.siemens.com

Latest News

The Siemens Open Source Manifesto

Inspired by the *Mercedes-Benz FOSS Manifesto*, now online at <https://opensource.siemens.com/manifesto/>

Company Principles

- Encourage Open Source
- Facilitate Participation
- Grow Through Exposure
- Promote Visibility

Employee Principles

- Prefer Open Source
- Contribute
- Foster Teamwork
- Be Responsible Citizens



Blog Post: <https://blog.siemens.com/2023/05/open-source-manifesto/>

Special Thanks to:

- Hanna Hennig (Chief Information Officer) and Peter Körte (Chief Technology Officer and Chief Strategy Officer) for supporting us!
- Florian Greinacher, Nejc Habjan and Oliver Fendt for driving the topic in-house!
- All the signatories from C-Level to apprentice all on the same list, we act as a team!

Next topics



We joined GitHub secret scanning program, this will be activated soon to further improve security on our in-house platform code.siemens.com

[GitHub sponsors](#) is in progress on our side, quite some effort to achieve this in a compliant way, but within a cross discipline team we will make it happen later this year

More contributions and [additional open-source projects](#) from Siemens

Help us to improve and provide feedback!

Remote participants

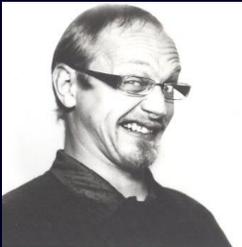


On-site guests



Thank you!
Enjoy the conference
and have fun!

Contact



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