



23.-26. Mai 2012 in Berlin  
**EUROPE'S LEADING  
OPEN SOURCE EVENT**

## LinuxTag 2012 Highlight-Report

From 23. until 26. May the LinuxTag 2012 offers news and trends related to Linux and Open Source. The highlight-report presents - arranged alphabetically by participant name – selected exhibits, services and offers from the companies and projects. The compilation will be updated regularly with further news and pictures until the start of the fair.

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### Medienpartner:



## Identity checks for the Web of Trust

CAcert is a community-based certificate exhibitor, for example, for the operation for web- and e-mail-servers. Furthermore, client certificates for securing e-mail correspondence and documents, as well as code-certificates for software developers will be issued. The, for the Web of Trust required, **identity-checks** will take place at the stand at the LinuxTag 2012. Therefore officially issued documents are required, such as an identity card, passport or driving license. At the same time the stand-team is giving tips on how to integrate the CAcert certificate in typical programs. As certificate-exhibitor is CAcert especially dependent on trust. At the LinuxTag, interested people can learn about the measures, how their personal data is being protected, especially in a Web of Trust.

### CAcert

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Abb. 1.: CAcert-Zertifikat für The Document Foundation

## KIX4OTRS 4.1 – second largest additional module for OTRS

The **Module KIX4OTRS** of the c.a.p.e. IT PLC makes service-processes more user friendly, more capable of being integrated and faster. It incorporates many improvements for the standard OTRS, which are based on an usability study. This includes the simple navigation using tabs and tree structures such as the opportunity to provide process documents for customers and service employees with “quick tickets”, to use text templates context-dependent or to staple IT inventory with a click to the process. The intelligent integration of data from CRM, ERP, telephone systems, and inventory of knowledge bases in KIX4OTRS accelerates the service work many times. Advantages: cost reduction in service and friendlier help desk.

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## Further education for professionals and executives

Cross-vendor and product neutral seminars and practical workshops for professionals and executives of the IT and computer science are being offered by the 'Deutsche Informatik Akademie' (= German Computer Sciences Academy), a subsidiary of the 'Gesellschaft für Informatik' (= Company for Computer Sciences), all across Germany with their trainer and speaker network from research and practice. At the LinuxTag 2012 interested people can inform themselves about special **offers for further education**. This applies, for example, all relevant issues about the development of high quality software and robust architectures, as well as cross-section themes such as IT project management, product management or legal knowledge for IT project managers. In addition, the 'Deutsche Informatik Akademie' will moderate the Academy Day at the LinuxTag on the 26. May, and is available for any further concerns or questions about the topic "Trends in IT – training".

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Strategisch	Praktisch	Individuell
<p><b>Seminarangebot für Führungskräfte:</b></p> <p>Strategisch relevante IT-Themen herstellerübergreifend und produktneutral aufbereitet. Themenbeispiele: Möglichkeiten und Grenzen des Cloud Computing, Neueste Verfahren und Tools des Softwaretesting, SE für Multicore usw.</p>	<p><b>Praxis-Workshops für IT-Praktiker:</b></p> <p>Bedarfsorientierte Schulungen, Trainings, Anwendungs- und Programmierworkshop sowie Best Practices. Vorbereitung zur Zertifizierungsprüfungen wie etwa ITIL, Requirements Engineering u.v.m.</p>	<p><b>Inhouse-Schulungen und Coachingangebote:</b></p> <p>Unterstützung bei individuellen Fragestellungen zu strategischen und praktischen IT-Themen direkt vor Ort im Unternehmen. Aufbauunterstützung bei Schulungsprogrammen.</p>

Fig.2.: DIA - Custom-made further education

## Advanced Operating System

**FreeBSD**<sup>®</sup> is an advanced operating system for modern servers, desktops, appliances and embedded computer platforms. It looks back on a 30-year long development-history and is being further developed by a large team of volunteers. FreeBSD is the basis for an extensive ecosystem of specialised progeny. These include for example the firewall pfSense, the PC-BSD-desktop and the FreeNAS Storage Appliance. The operating system offers highly developed network features, exceptional security features and very high speed. It comes into operation on some of the largest and busiest websites and is present in many embedded networking and storage solutions. The current version FreeBSD 9.0 can be downloaded from “[www.freebsd.org](http://www.freebsd.org)”.



### FreeBSD

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### Forth on the TI Launchpad Board

How Forth can be used on the **TI Launchpad Board**, will be explained by members of the Forth association at the LinuxTag 2012 in a little workshop at the booth. This, very inexpensive, microprocessor board has an USB interface and a MSP430-microcontroller. It can be purchased for less than five Euros and can be used for various handicraft works. How the board can be interactively programmed with the Forth language, will be demonstrated. Furthermore, those who are interested will receive information about Open Source Forth-projects, such as **GNU Forth**, **GLForth** (Forth on Linux with OpenGL interface for game programming) and **amForth** (Forth for the well-known Arduino Boards). Even a self-made “**Pick’n’Place**”-Robot with Forth-control can be seen at the booth. He plays nine men’s morris or other board games and works with an almost magical grasp function.

### Forth Gesellschaft e.V.

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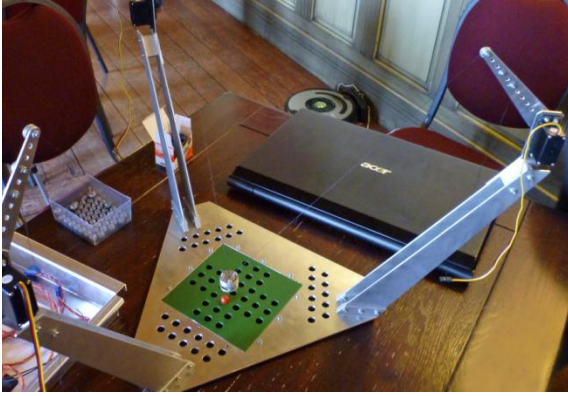


Abb.3. : „Pick'n'Place“-Roboter

### **Linux-Services on land, sea and air**

Particular challenges in unusual environments characterise GONICUS. This also includes, besides the traditional data centre, the use on board of aircrafts or cruise ships. In addition to the consulting and implementation business, are the following topics focused on: **enterprise virtualisation, VoIP integration** as well as **client- and system-management**. The specialist from Arnsberg for Linux and Open Source software can refer to the implementation of Germany's first RHEV 3.0-project as a Red Hat-partner at the enterprise virtualisation. In the field of Voice over IP, GONICUS is engaged with the integration of speech as a software-service in IT processes. The certified support, maintenance and development completes it's product range.

**GONICUS**

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## Hellfire 2012-05 and Preview on Dragonfire

For LinuxTag 2012 Kanotix will present an update **release 2012-05** of the current stable series Kanotix Hellfire (Debian Squeeze based). On board will be a 3.2 kernel, updated versions of Iceweasel, Icedove and Pidgin. In addition there will be the latest version of LibreOffice 3.5.

Beside Kanotix Hellfire you will see a preview of the current development state of the Hellfire successor **Kanotix Dragonfire**. Kanotix Dragonfire will base on Debian 7 alias Wheezy. Currently we offer live images to test Kanotix Dragonfire with KDE 4.8 based backports. Another highlight could be the first preview of a **Kanotix version with LXDE** instead of KDE as default desktop environment.

### Kanotix

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### “Beta”-tests of LPI Linux Essentials

The Linux Professional Institute (LPI), Bronze Partner of the LinuxTag 2012, calls on volunteers to participate in the first **“Beta”-test** for the new certification Linux Essentials at the LinuxTag in Berlin. Linux Essentials is an innovative program, with whose help the basic knowledge in Linux and Open Source can be tested. These “Beta”-tests are offered for free. At each session the number of seats is limited to a maximum of ten. The process takes at the most two hours and consists of 80 questions. To participate a pre-registration at <http://lpievent.lpice.eu> is required. More information about LPI Linux Essential can be found on the web: <http://www.lpice.eu/lpi-certification-contents/exam-linux-essentials-objectives.html>.



### Linux Professional Institute (LPI), D-Kassel

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## Open Source-based two-factor authentication

**LSE LinOTP** is an Open Source-based two-factor authentication. Due to its modular and vendor-independent design, it supports the token of any manufacturer for authentication with one-time passwords. Being based on Linux and open standards makes LinOTP flexible and highly scalable and suitable for the use both in small environments and large corporations, as well as internet- and application service providers. This is also reflected in the recently released appliance, which will be on display at the LinuxTag 2012. LinOTP will cover the topic of identification proof even stronger in the future and support further factors for a strong authentication, emphasized the exhibitor. Thereby RIF, Near Field Communication and biometric procedures would also be on the roadmap next to the identification proof via Smartcard.

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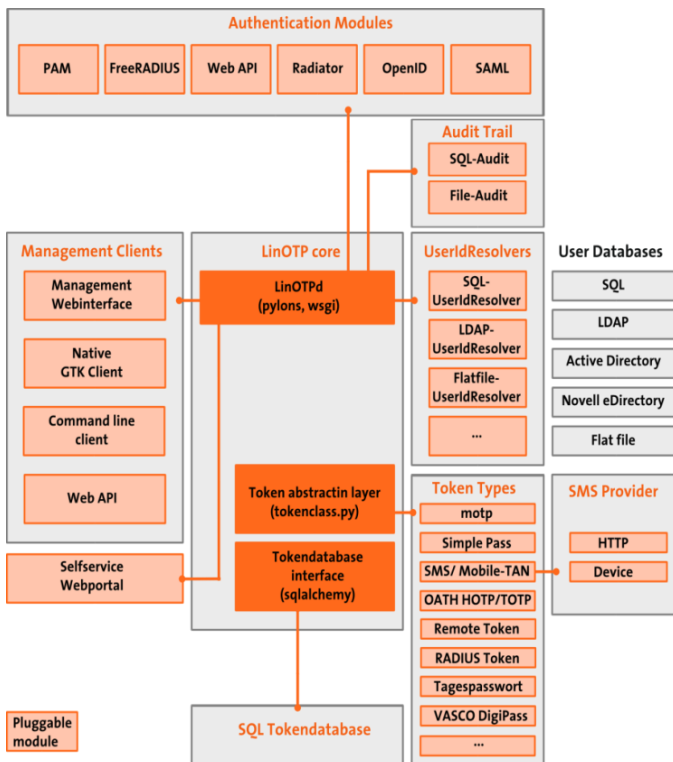


Fig. 4.: Modular architecture of LinOTP

## Tux as a quizmaster

At the stand of **m23**, the software distribution system for Linux, Tux will be there in person. As a quizmaster he is going to ask the visitors in an amusing and entertaining quiz about Linux, the world of computers and also the presented software. For successful participants Tux even has small surprises. On an ice floe the little penguin will be watching over a lot box – and every evening the draw will decide the daily winner of a geeky T-shirt. Apart from that, there are multifaceted information available at the booth: A three-dimensional diagram which pictorially describes the functionality of the software, participants of the m23-team will demonstrate the program and will answer user questions. Apart from that visitors of the stand can get information for reading later on.



### **m23 Softwareverteilung**

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## Professionally manage meetings

**OpenSlides** is a free, web-based presentation system for the professional illustration and control of the agenda, requests and elections of an event. The decisive advantage over conventional office presentation systems: the direction of the meeting controls and processes all content interactively by a reaction system in the browser. The presentation mode on the projector does not have to be left for changes. A big strength of the software is the increasing of interactivity and transparency by incorporating the present participants: each participant can log in to OpenSlides with his or her mobile phone and, for example, read proposals, election results of the current agenda. Download and further information can be found on the official website “[www.openslides.org](http://www.openslides.org)”.

### **OpenSlides**

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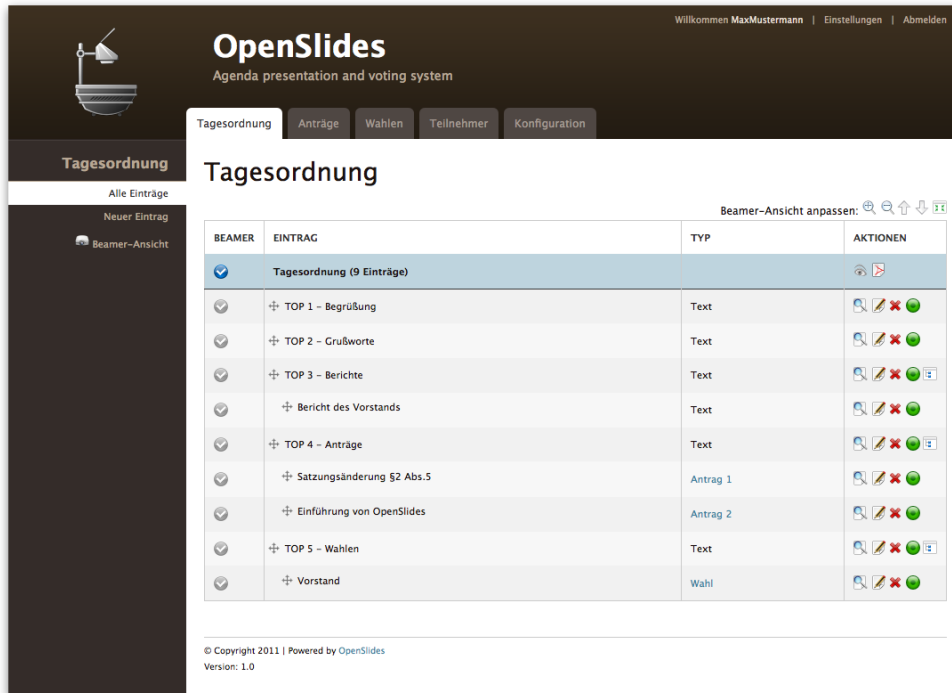


Fig. 5.: Screenshot agenda

## Current Desktops

Community members of openSUSE are going to present a preview of the coming **Version 12.2**. Furthermore, the tablet surface KDE Plasma Active, as well as the new GNOME 3.4 will be displayed. Further current Linux-Software will also be presented. Apart from that, the visitors of the fair can inform themselves about the development of tools. This concerns for example the **Open Build Service** (packaging of 27 Linux distributions), **Studio** (build your own OS in your browser) and **Tumbleweed** ("Rolling Release" for openSUSE). – openSUSE is a global community that promotes the usage of Linux and develops Linux even further. Interested people are invited to use the distribution and tools, to develop and above all to be part of the community.

## openSUSE

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Fig. 6.: openSUSE-Conference 2011

## Individual communication solution

Open-Xchange offers scalable and integrated E-Mail- and collaboration-solutions based on Open Source to companies, academic institutions and the government. The software combines E-Mail, scheduling, contact- and task-management with an intelligent document management in an integrated application. Open-Xchange users have, due to appropriate extensions, anytime and anywhere and on virtually any mobile device access to their data. At the LinuxTag 2012, the company will show its **Open-Xchange Server Edition**. It is aimed at medium-sized to large organisations, which need a customised communication solution. In addition, the exhibitor will present its **Open-Xchange Advanced Server Edition**, a “turn-key” and cost-effective complete solution for small- and medium-sized companies.

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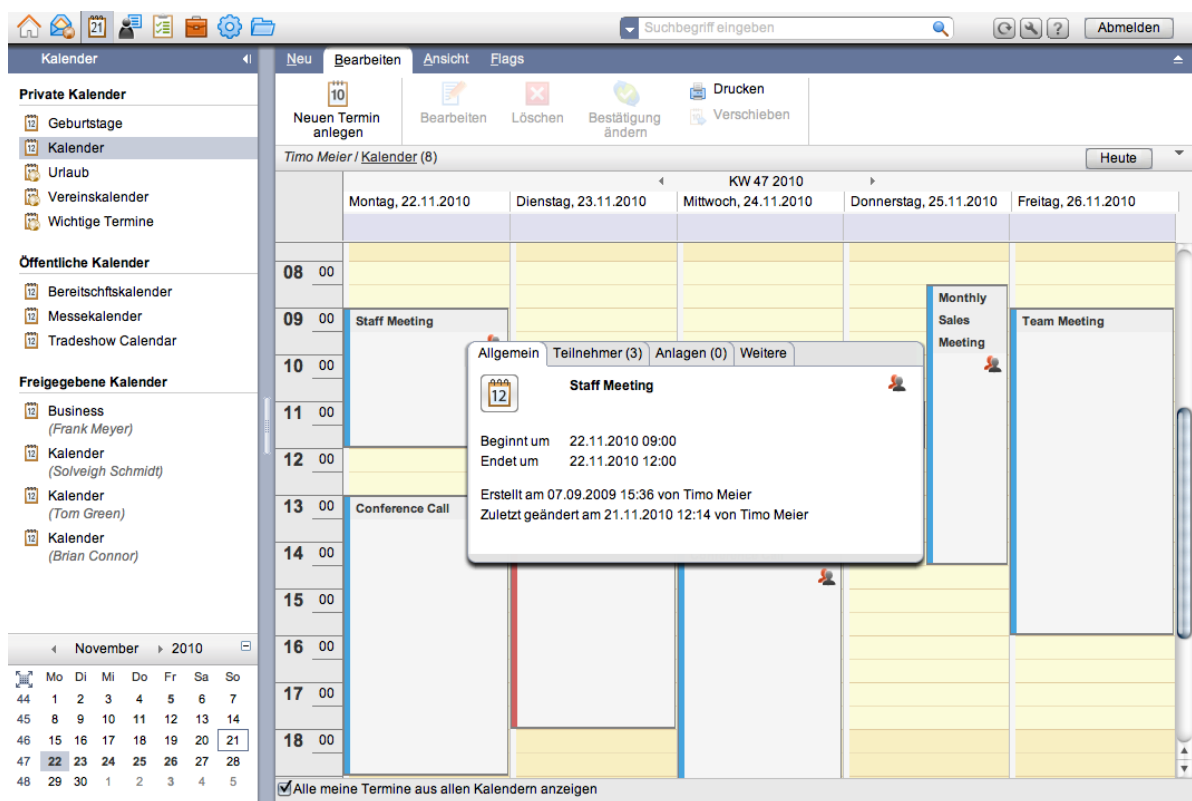


Fig. 7.: Open-Xchange-Calendar

## Hackers shower – short & geek

The O'Reilly publisher is the German branch of the international publishing company O'Reilly Media, Inc., which has been engaged with Open Source technologies for decades. The authors are part of the different developer- and user-communities and have great practical knowledge. Current focal point themes of the specialised books are **programming of software, websites and mobile applications, operating systems, networks, digital photography and social media**. In the field of "Sysad and networks", books about high availability, computer forensics and virtualisation were published. And: O'Reilly has a soft spot for geeks and hobbyists. In addition to an Arduino- / electronic-program, "Cooking for geeks" and "Hackers shower – short & geek" were released.

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## Training of system administrators

ProfitBricks – an IaaS provider based in Berlin – has a great need for system administrators. In the recently founded **ProfitBricks Academy** the company offers a free, six-month intensive training to become a Linux system administrator, to qualified trainees. Amongst other things, knowledge of the system-, network- and storage-administration for all requirements in complex, virtualised cloud research centres are being conveyed. In line with the training, the ProfitBricks Academy offers the opportunity to take recognised certifications, for example, Linux LPIC-2, Juniper and JNCIS-SP. In addition, the trainees of this qualified further education receive a financial compensation.

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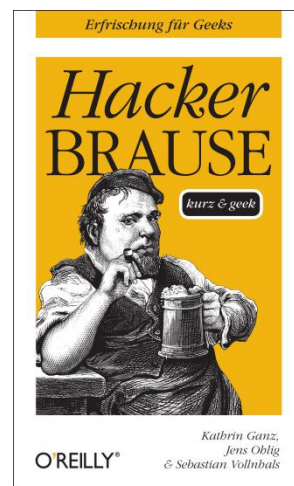


Fig. 8.: Hackershower – short & geek

## Follow the construction phase via beamer

The project seduction is going to host a release party at the LinuxTag 2012, Friday night (25.05.12). At the party, a **siduction release** with the new desktop environment Razor-Qt will take place. The release will be built during the little party and uploaded to the mirror server. The participants can follow the construction process via beamer. Razor-Qt is a, still very young, desktop environment. It is based on the Qt-framework and has a very small footprint, compared with the LXDE. The team at the booth wants to promote this desktop environment with the development release and make it better-known, to then quickly incorporate it into the official release schedule as an adequate seduction release in addition the already published KDE SC, XFCE and LXDE. The goal is to offer a lightweight desktop to users, which is not based on the GTK-framework.

### siduction

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## Interactive police patrol car

For the central service of the police Brandenburg the tarent solutions PLC has developed the **key components** of an “interactive police patrol car”. The name of the, fully with Open Source components developed, project: police, automobile-based, resource-controlling IT-system, short PolarIS. Advantages: the work with the permanently increasing electronic components in the police patrol car is becoming a lot easier, the police officer greatly relieved and the safety of operations increased significantly. All functions are accessed via a touch-sensitive screen. PolarIS also serves the coordination of operations, the provision of location information for the emergency vehicles and the virtualization of geographical locations of all police patrol cars. Technically, the system consists of central service systems in the control centre, as well as the small computers installed in the emergency vehicles.

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## System - Infrastruktur

→ tarent  
solutions

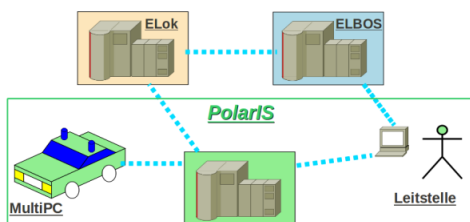


Fig. 9.: PolarIS

## UCS und UCS@school with numerous new features

The manufacturer of integrated Open Source infrastructure products, from Bremen, is going to present how users with **Univention Corporate Server (UCS)** in the company network and the IT-services carried out in the cloud – like identity- and access-management – can be connected and centrally managed at the LinuxTag 2012. In addition Univention presents in **Active Directory Services** which are integrated in UCS, based on the software Samba 4. For this reason, for example, Windows 7 clients can seamlessly be inserted in an Open Source infrastructure. Furthermore, the software developers provide, in UCS integrated, services for the **virtualization management**. The third focus at the Univention booth is built by the new version of **UCS@school**, the IT solution for schools and education authorities, with numerous new features and improvements.

**Univention GmbH**, D-Bremen

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## UCS domain model - Mixed cloud

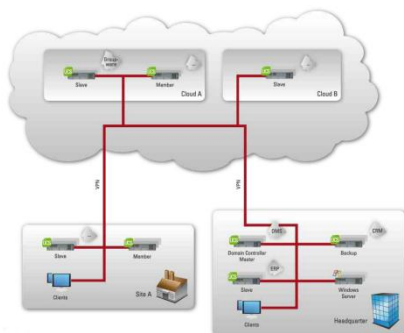


Abb. 10: Univention Corporate Server UCS