

Upravljanje softverskim licencama, Open Source softver

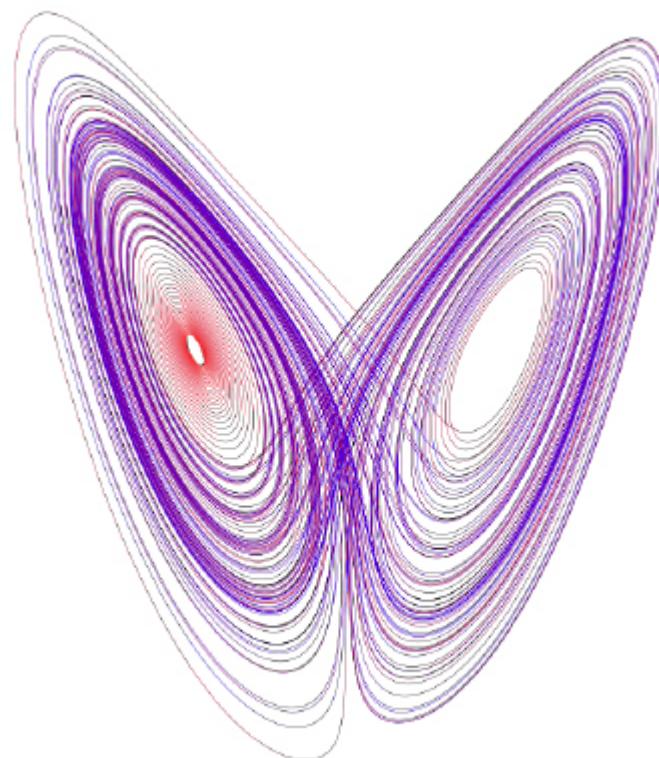
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**Upravljanje informacionim tehnologijama
UDG-P12UIT**



Word of the day

- Chaos



Slika: <https://plus.maths.org>

Software Licenses

- Can be **chaotic**
- Not as **simple** as it may look
- License cost can be **reduced by 30%** (Gartner)

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What? How?

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- Software License Management

Software License Management

- Maintain **a list of commercial / non-commercial software** used in the company
- Assess and identify **over licensed / under** licensed products
- **Avoid the penalty** for non-compliance during software license audits
- **Save money** by canceling the licenses of unused software

Software License Inventory

- For each software package:
 - Name
 - Vendor
 - Version
 - Number of licenses purchased
 - Date of purchase
 - Date of license expire

Software License Reports

- **License Compliance Report**
 - Inventory list of the software that is in compliance
 - List of over licensed software
 - List of under licensed software
- **Licenses To Be Renewed Report**
 - Software with licenses that need to be renewed soon
 - Typically generated for a specific time frame

Software Metering

- Software Metering (Tracking Software Usage)
- Software Usage by Computer Report
 - Each package listed
 - Frequency of usage (rarely, occasionally, frequently)

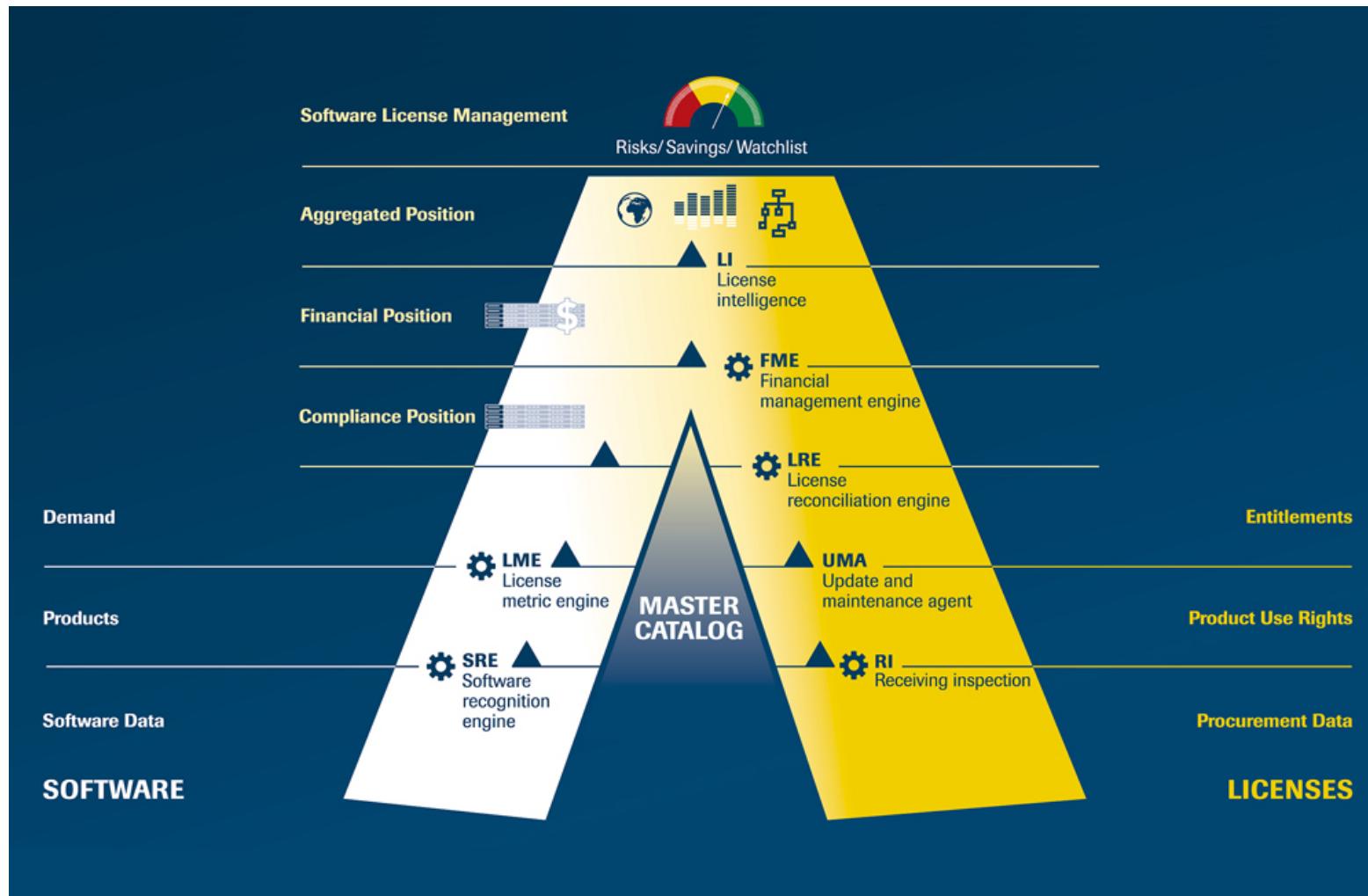
Prohibited Software

- Blacklisted software
- Maintenance of prohibited software
 - Examples: games, social networking applications, insecure applications
- May seriously affect productivity
- Updating company policies

Approach

- Software World vs. Procurement World

Example: Aspera A model



Example: A model

- Software Data and Procurement Data
- Products and Product Use Rights
- Demand and Entitlements
- Compliance Position
- Financial Position
- Aggregate Position
- Software License Management

Primjer: Software License Manager

The screenshot shows the 'Manage License' page in the ManageEngine Desktop Central 8 software. The left sidebar has sections for 'Views' (Computers, Hardware, Software, Alerts, Inventory Reports) and 'Actions / Settings' (Scan Systems, Software Metering, Manage Licenses, Configure Prohibited Software, Manage Software Category, Configure Alerts, Schedule Scan). The main content area shows a table of software licenses with columns: Software Name, Total Purchased, Installed, Licensed To, and Expiry Date. Two error messages are displayed at the top: 'Under licensed Software detected in the network.' and 'License Expired for 10 software in the network.' A search bar and column chooser are also present.

Software Name	Total Purchased	Installed	Licensed To	Expiry Date
2dpainting	0	0	--	--
7Zip	10	33	--	Thu, Aug 30 2012
e	20	13	--	--
Accessibility Verifier	121	0	--	--
Acrobat.com	1	0	--	Wed, Apr 04 2012
AddressBookManager	10	0	--	Sun, Aug 12 2012
Adobe AIR	2	0	--	Fri, Apr 26 2013
Adobe Flash Player 11 ActiveX	0	1	VIJAY-1539,dc-w8s-rp	Wed, Sep 19 2012
Adobe Reader X (10.1.1)	10	0	--	Mon, Aug 13 2012
Dell ControlVault Host Components Installer 64 bit	15	15	--	--
Gemini	15	0	--	Tue, Apr 17 2012
Microsoft .NET Framework 2.0	10	1	--	--
gmedioplayer	1	0	--	--
ZD	111	0	--	--

Open Source Software



Free software and open source

- The freedom to run the program as you wish, for any purpose (**freedom 0**).
- The freedom to study how the program works, and change it so it does your computing as you wish (**freedom 1**). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help your neighbor (**freedom 2**).
- The freedom to distribute copies of your modified versions to others (**freedom 3**). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

Open Source Initiative

- Familija OSI kompatibilnih licenci
- Razni poslovni modeli



Firme koje podržavaju OSS

- IBM
- Oracle
- Intel
- Red Hat
- Suse
- Google
- Mercedes
- BMW
- ...



Microsoft ❤️ Linux

Apple

“Open Source software is at the heart of Apple platforms and developer tools, and Apple continues to both lead and make significant contributions to many Open Source projects. Major components of Mac OS X, including the UNIX core, are made available under Apple’s Open Source license, allowing developers and students to view source code, learn from it and submit suggestions and modifications”



Types of Software

- System
 - Operating systems and networking
 - Visualization tools
 - Utilities
 - Applications
 - Universal
 - Specific
 - Development Tools
 - Wide variety



Open Source Family



Gdje se OSS najviše koristi?

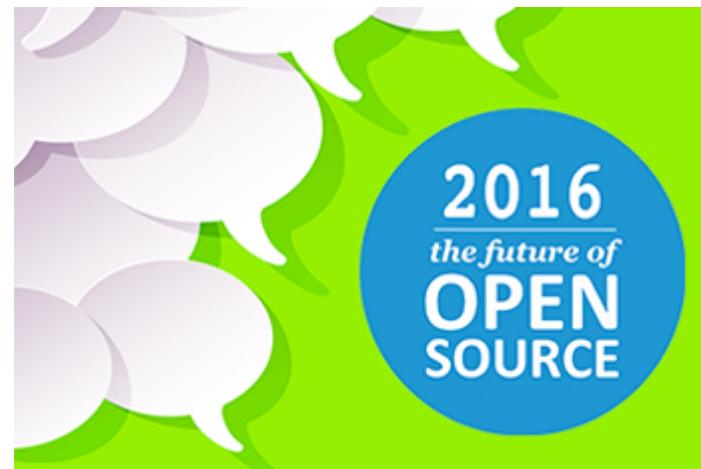
- Operativni sistemi
- Serveri i mreže (Internet)
- Baze podataka
- Razvojni alati
- Mobilne platforme i uređaji
- Super kompjuteri
- Desktop i laptop računari

Zašto OSS?

- Kvalitet rješena
- Mogućnost prilagođavanja i izmjena
- Nezavisnost od kreatora rješenja
- Smanjenje troškova

OSS Presence

- Survey: Future of Open Source 2016
 - 65% of companies uses OSS
 - 67% of those actively contributes to OSS projects
 - In 34% of those, more than half employees actively participate in OSS projects



OSS in Enterprise Environment

- Right choice and OSS adoption
 - Understanding licensing
 - Assessing maturity of OSS project/software
 - Understanding versions
 - Follow activities of OSS projects of interest
 - Assess community behind projects
 - Big company support
 - Know how (training)

Modeli zarade

- Donacije
- Podrška
- Plaćene ekstenzije i dodatne podrške
- Održavanje prethodnih stabilnih verzija
- Crowdfunding
- Know how consulting

Obuka IT kadra

- Obuka je neophodna da bi se ostvarili benefiti korišćenja OSS
- Perspektiva:
 - “Šta se desi ako obučavamo IT kadar i oni nas posle toga napuste?”

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 - “Šta se desi ako ih ne obučavamo i oni ostanu?”

Osvrt na region i svijet

- IT u ogromnom rastu (eksponencijalno)
- Outsourcing
- OSS vještine absolutno neophodne



OSS Zajednica u Crnoj Gori

- Prezentacije i skupovi
- Ubuntu zajednica
- Montenegro Open Source blog
- Saradnja sa medijima
- Saradnja sa univerzitetima
- Prevodenje materijala
- Install day



Personalna upotreba

- Kućni računari
- Učenici i studenti



Zvanični
priručnik za korisnike



Linux Mint
Cinnamon Edicija

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Računari u školama

- Microsoft
 - Windows OS
 - MS Office
- Open Source
 - Libre Office
 - VLC Player
 - 7-zip
 - Notepad++
- Open Source (cont.)
 - GeoGebra
 - FileZilla
 - Dia
 - Gimp
 - Firefox
 - Thunderbird



Trendovi i mogućnosti

- IT i OSS u svim granama nauke i privrede
- IT kao privredna grana, outsourcing u dva smjera
- Start up
- Spremnost i vještine za najnovije tehnologije (IoT, Cloud, Big Data, Data Science,...)
- **Akcioni plan** (Strategija za OSS Vlade Crne Gore)

OSS u svijetu

- Usvojeno preko 350 inicijativa u više od 65 zemalja svijeta
 - Britanska vlada 2011. godine usvojila Smjernice za IT rješenja na bazi OSS
 - Italijanska vlada 2015. godine u Zakonu o javnim nabavkama daje prednost OSS
 - EU je 2010. godine krirala Open Source Observatory and Repository OSOR.EU
 - Francuska žandarmerija, 65000 računara
 - Lokalna uprava Minhena, 14000 računara
 - Regija Extramadura, 40000 računara
 - Italijanska vojska, 100000 računara, ...



<https://www.csis.org/analysis/government-open-source-policies-0>