



Open Source and
Standards in 5G
May 2016, San Diego



CONVERGENCE, COLLABORATION AND SMART SHOPPING in OPEN STANDARDS AND OPEN SOURCE

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OASIS INTRODUCTION

- 📌 OASIS Open is a global, not-for-profit consortium that creates market-driven open data standards
- 📌 Founded in 1993 as SGML Open
- 📌 Over the years, from SGML to XML to multiple methods & models, business processes and policies, (JSON, XML, UML, ASN.1, custom notations ...)

The image shows two screenshots. On the left is the OASIS website homepage, featuring the OASIS logo and the tagline 'Advancing open standards for the'. The navigation bar includes links for '关于 OASIS', '成员', '加入', '新闻', '活动', '成员专区', 'COVER PAGES', and 'XML.ORG'. A sidebar on the left lists categories like 'OASIS标准', '如何参与政策和章程', and '技术工作'. The main content area has a headline: 'OASIS是一个推进电子商务标准的发展、融合与采纳的非盈利性国际化组织。' Below this are sections for '新闻发布' and '参加', with news items dated from 2010. On the right is a poster for the 'INTERNATIONAL CONFERENCE ON ADVANCING PUBLIC-PRIVATE PARTNERSHIPS FOR E-BUSINESS STANDARDS', held from 18-19 September 2008 at the World Meteorological Organization in Geneva. The poster features logos for ISO, IEC, ITU, OASIS, UNECE, and UPU, and mentions the Management Group of the MoU on e-Business.

“The largest standards group for electronic commerce on the Web”

The New York Times
ON THE WEB

OASIS INTRODUCTION



- 5,000+ participants
- 600+ organizations & experts
- 80+ countries
- 70+ technical committees

Cooperation, liaison and harmonization with other open development organizations is a first-class OASIS priority.

ISO, IEC, ITU, UN-ECE and the global MoUMG for E-Business

ITU-T SG 17; ISO TCs 154, 184, 211; IEC PC 57, 118; ISO/IEC JTC 1 SC34, SC38, SC40

CNIS, ETSI, ANSI, European Commission's MSP on Standards

CSCC, EEMA, Eclipse, FIRST.org, HL7, Kantara Initiative, NAESB, NSTIC IDESG, OECD, OIX, OpenGeoSpatial, ODCA, SNIA, UPU, World Bank, W3C, WCO

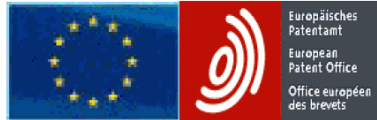
OASIS standards also have been co-issued as ISO, ITU, ISO/IEC and W3C specifications

5G is a global standardization priority



- The European MSP on ICT Standardization (<http://j.mp/MSPstds>) identifies open standards plans, and prioritization, and makes annual recommendations to the European Commission: <http://j.mp/EURollingPlan2016>
- The Commission identified five priority areas for ICT standardization growth to promote its *Digital Single Market* strategy: **IoT, 5G, cloud, big data and cybersecurity**.
<https://j.mp/euDSMpriorities>

O.S. and O.S. at OASIS



IPR and ICT standardisation
A conference organised jointly by the EPO and the European Commission
22 November 2010
Brussels, Belgium

Open source, freely available software and standardisation

James Bryce Clark, OASIS
Scott Peterson, Hewlett-Packard
Karsten Gerloff, FSF Europe
David Hammerstein, TACD
Erwin Tenhumberg, SAP

Brussels, November 2010

This topic isn't new for us. OASIS has been working with open source communities, and promoting open standards-open source collaborations, for a long time.

ETSI
World Class Standards

ETSI SUMMIT ON
**STANDARDIZATION
AND OPEN SOURCE**

**OPEN STANDARDS AND OPEN SOURCE
DEVELOPMENT AT OASIS**

Dr Carol Cosgrove-Sacks, Senior Advisor on
International Standards Policy, OASIS

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19 November 2015, Sophia Antipolis

Open Source, Open Standards
OPEN MINDS

Open Source + Open Standards
Making Hybrids Happen

Scott McGrath
OASIS

Washington, DC
April 15, 2016

In partnership with: AMERICAN UNIVERSITY GW LAW

The right types of open standards groups ... and the right kinds of open source projects ... can work together very well



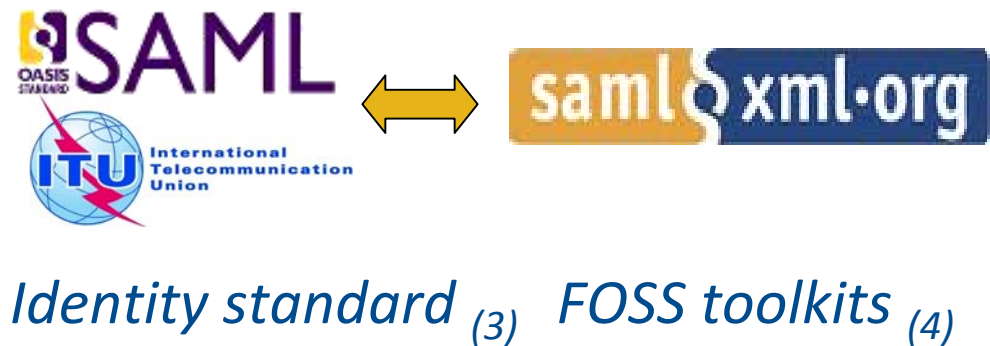
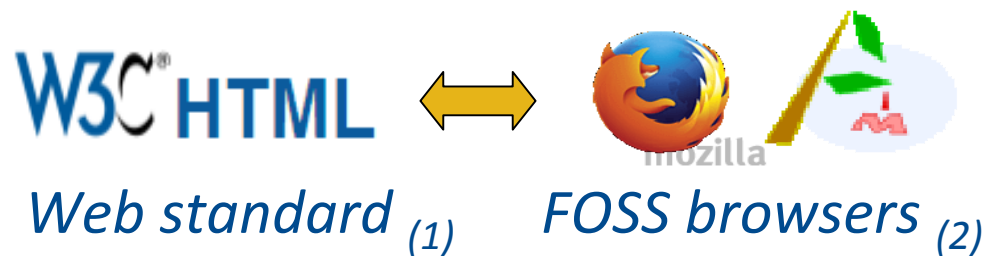
There are some wacky cowboys in both open source and open standards



There are slow projects and fast ones in both places, too

In practice, fast open standards groups ... and solid open source projects ... usually work together very well

Many open standards projects are robustly supported by free & open source software.



Giant ecologies can grow from open projects, promoting widespread use and adaptation. Sometimes the standard comes first.

PEPPOL PAN-EUROPEAN PUBLIC PROCUREMENT ONLINE

making procurement better.eu

fe Fatturazione Elettronica

<UBL: Italia />

epoca

SOURCEforge

OIOUBL Offentlig Information Online Universal Business Language Dokumentation

UBL OASIS STANDARD

UBL4J

DIGITALISERINGSTYRELSEN

Grant Thornton

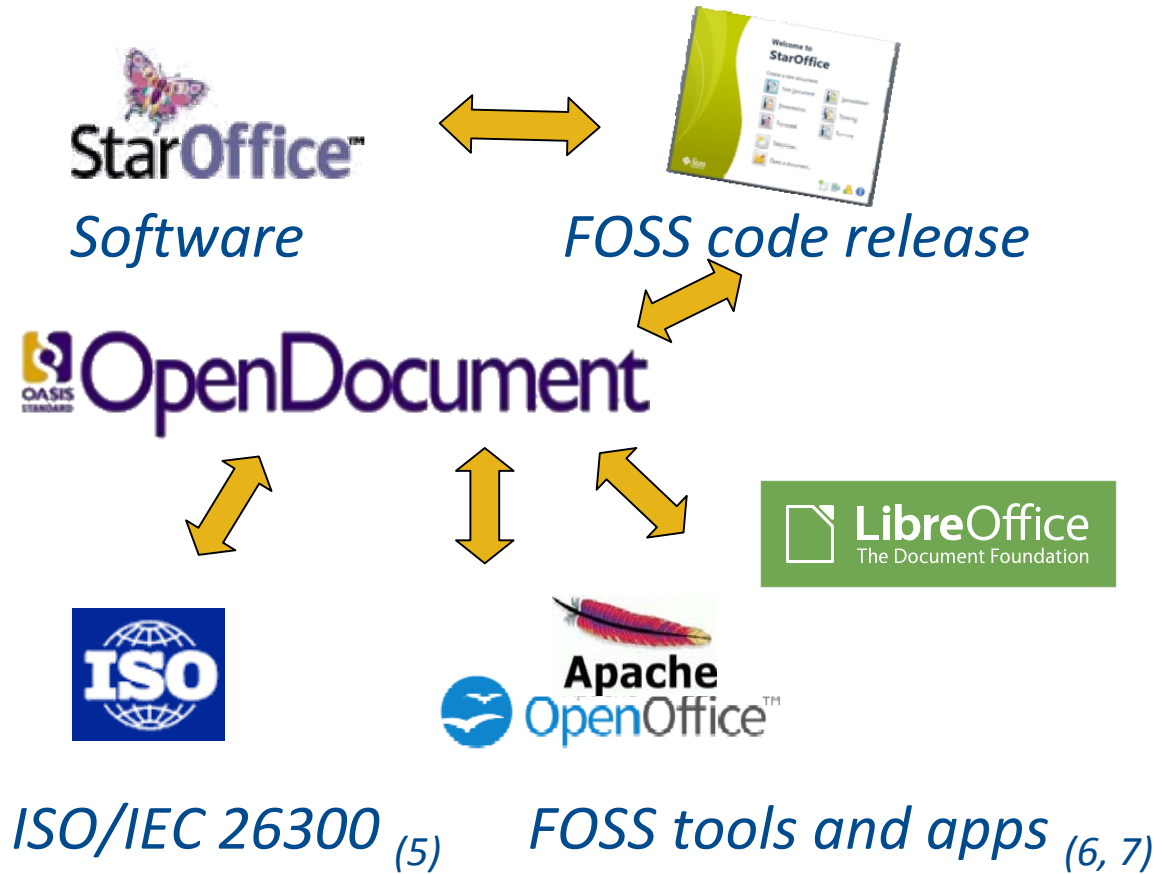
SimpleUBL

e-Fatura Uygulaması Nedir?
*e-Fatura Uygulaması, UBL TR(Universal Business Language) standardında hazırlanan e-Faturaların, taraflar arasında güvenli ve sağlıklı bir biçimde dolaşımını sağlamak amacı ile T.C. Maliye Bakanlığı Gelir İdaresi Başkanlığı (GİB) tarafından oluşturulan uygulamaların genel adıdır.

One open standard (*UBL for e-invoicing*) generated many local profiles, regional public projects and open source tools. (8)

Giant ecologies can grow from open projects, promoting widespread use and adaptation. Sometimes the CODE comes first.

StarOffice led to an FOSS release, and the OASIS OpenDocument Format (ODF), which enabled FOSS suites of royalty-free office document, spreadsheet and presentation software



Giant ecologies can grow from open projects, promoting widespread use and adaptation. Sometimes they develop in PARALLEL.



OPEN SOURCE REPOSITORIES & OASIS WORK

OASIS technical projects have long benefited from independently-developed code contributions and examples, as far back as ebXML implementations on SourceForge in 1999



OASIS provides its own GitHub-based repositories under FOSS licenses for code supporting developing standards:

<https://www.oasis-open.org/resources/open-repositories>

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Open Standards and Open Source Projects

- What makes them so different and how they are becoming more alike
- How OASIS is using a hybrid approach

ANSI American National Standards Institute

Hybrids Happen.

Ligers happen too.

They don't happen naturally.

Human intervention helps.

ANSI American National Standards Institute

WE'RE SEEING CONVERGENCE OF OPEN SOURCE AND STANDARDS METHODOLOGIES

- OPEN: ***Both work well.*** Easy to join, transparent to review.
- FAST: ***Open source methods*** work well. Meritocracy, rapid iterations, ease of contributions promote rapid development.
- SAFE: ***Open standards*** with strong IPR rules, balanced participation in a “symbiocracy” promotes stability, interoperability and usable work.



Open Source and Open Standards: BEING A SMART SHOPPER



- Standards projects with more agile implementations
- Open Source projects with more interoperability and stable interfaces
- Hosts that readily collaborate and share across organizational lines
- Weighing the criteria used by governments: vendor-neutrality, fairness, transparency, genuine public comment, and clear and suitable licensing. See the WTO TBT treaty⁽⁹⁾, and government purchasing criteria like US OMB Circular A-119⁽¹⁰⁾

Open Source and Open Standards: BEING A SMART SHOPPER FOR LICENSES



- First: What parts of a project should be open and shared, to expand a market by network effects, and what parts should be kept as proprietary? (11)
- Thoughtful intake! Who are your stakeholders? What are their claims? Code-first or data-first?
- Not all 'open' rules work with other rules! Combinations of multiple open licenses may conflict unexpectedly. This is a non-trivial problem that Bruce Perens called 'combinatorics'. (12)
- You're usually best served by communities with licensing experience and catholicity. (13)



Footnotes

1. HTML: <http://www.w3.org/html/>.
2. HTML FOSS Browsers: <http://www.mozilla.org/en-US/firefox/new/> (Mozilla);
<http://www.w3.org/Amaya/> (Amaya).
3. SAML: <https://www.oasis-open.org/committees/security>.
4. SAML FOSS Toolkits: <http://saml.xml.org/wiki/saml-open-source-implementations>.
5. ISO/IEC 26300, the OASIS Open Document Format as approved by ISO/IEC :
http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=66363
6. Apache OpenOffice: <https://www.openoffice.org/>
7. LibreOffice, from the Document Foundation: <http://libreoffice.org>; see also
<http://planet.documentfoundation.org/>



Footnotes

8. UBL: <https://www.oasis-open.org/committees/ubl> (OASIS); <http://www.nesubl.eu/>, <http://en.wikipedia.org/wiki/OIOXML>, <http://www.peppol.eu/pilot-reporting>, <http://www.ibm.com/developerworks/library/x-ind-disrubl/>, <http://www.opensourceacademy.eu/index.php?id=59> (guides); <http://openinvoice.org/ubl4j/>, <http://sourceforge.net/projects/freeb-ubl>, <http://xmltools.oio.dk/oioonlinevalidator/ehandel/0p71/Invoice/>, <http://www.ubl-italia.org/ubl-italia/implementazione/pgcl.asp?p=418>, <http://www.simpleubl.com/articles/what-is-nes/> (tools).
9. MQTT: <https://www.oasis-open.org/committees/mqtt> (OASIS); <http://wiki.eclipse.org/Paho> (Eclipse); <http://mqtt.org/news> (industry).



Footnotes

9. WTO Technical Barriers to Trade agreement: see the criteria in Annex 3:
http://www.wto.org/english/docs_e/legal_e/17-tbt_e.htm
10. US OMB Circular A-119 on using standards, and stable open sources:
https://www.whitehouse.gov/omb/circulars_a119/
11. Shapiro and Varian, Information Rules (1999)
12. License collisions: <http://www.talkstandards.com/standards-and-oss/>;
https://en.wikipedia.org/wiki/License_compatibility
13. Winging it: See choosealicense.org, GitHub's advice for the many open projects that simply omit a license.