



EU-FOSSA – Work Package 5

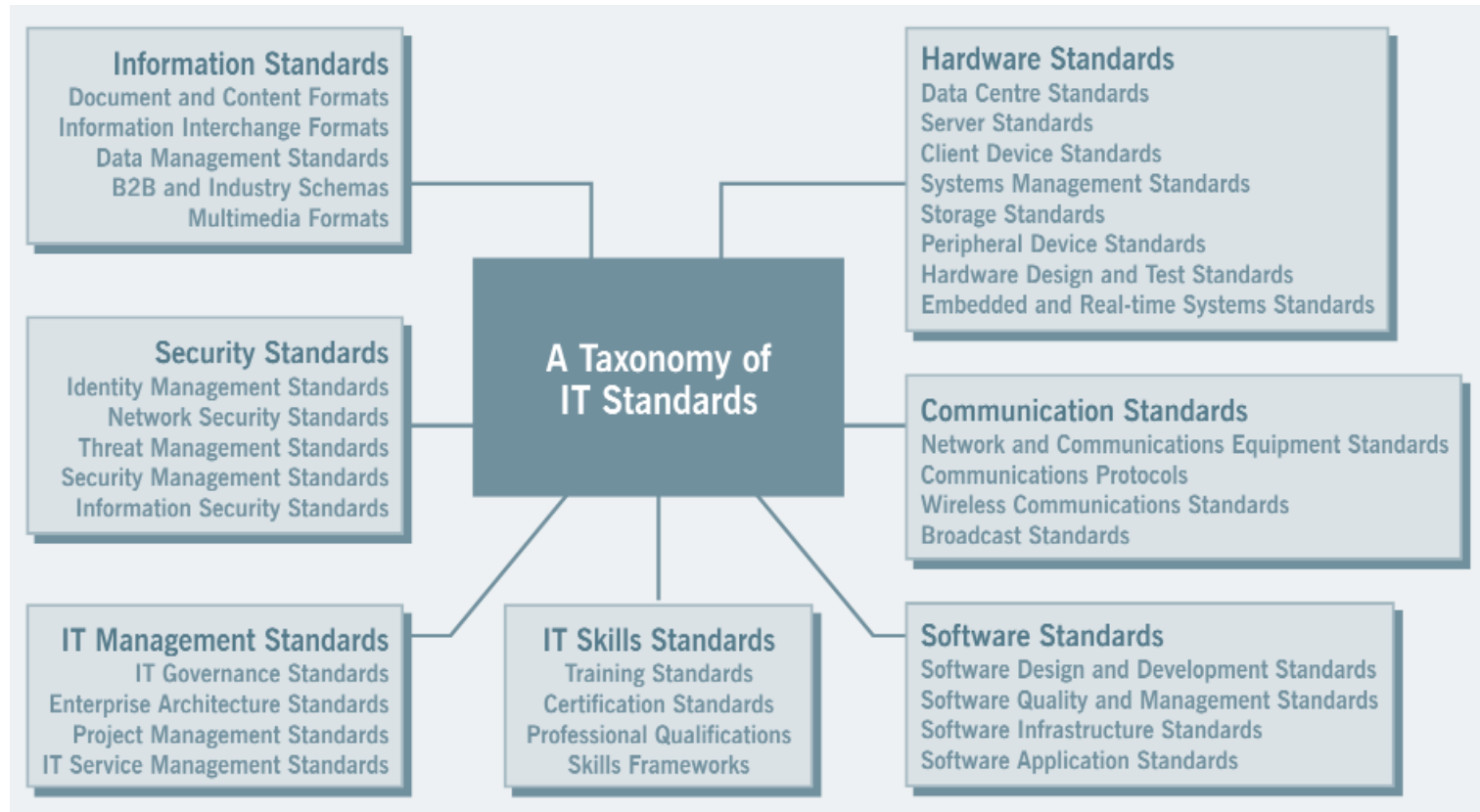
**The inventory of
open technical
specifications used
in the European
Commission**

Standards inventory taxonomy



Two classification levels:

- Areas (as per the EC standards inventory of 2011)
- Sub-areas (level not applied in 2011)



Inventory repository application



A web application developed to:

- Manage the standards inventory, adding attributes (properties) to each standard;
- Associate the standards to the pertinent software.

The screenshot shows the application's user interface. At the top is a green navigation bar with 'Home', 'Back', 'Help', 'Fossa', and 'Exit' buttons. On the left is a tree view of categories, with 'SSL v3/TLS' selected under 'Networking'. An orange arrow points from this category to the main content area. The main area displays a table of software items under the 'SSL v3/TLS (654)' category. The table has columns for 'Software', 'Properties', and 'Actions'. One item, 'openssl', is listed with the URL 'https://www.openssl.org/'. Below the table are buttons for 'Save software' and 'Clear software'. At the bottom, a section titled 'Properties of the category:' lists 'Standardization body: IETF', 'Reference: RFC 2246', and 'URL:' with edit and delete icons for each.

Standards properties

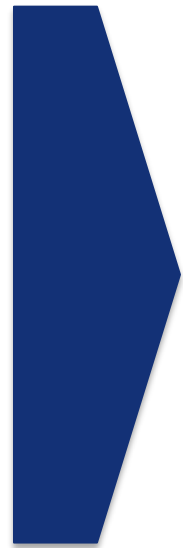


Properties searched for and verified on official sources of the standardisation bodies and on other supporting sources (e.g. Wikipedia)

Tracked properties:

- Mandatory
- Optional

Additional optional properties can be tracked by the application in the future

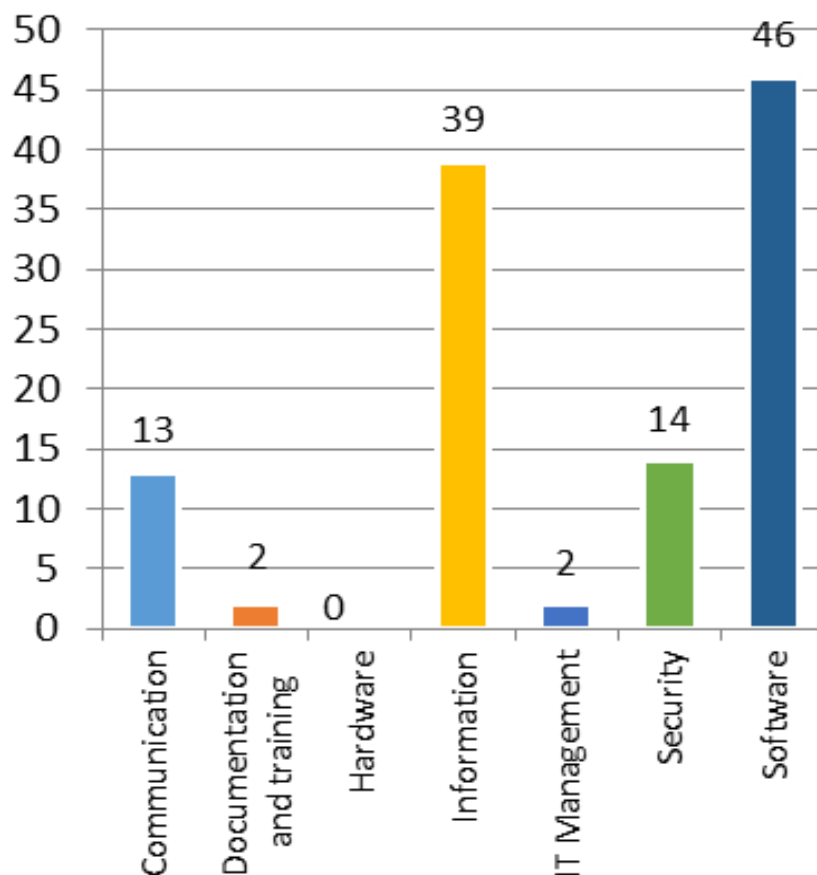


Mandatory properties	Area
	Sub Area / Functional Domain
	Name
Optional properties	Standardization Body
	Reference
	URL
	Description
	...

Inventoried standards (1/2)



The inventory has identified 116 standards, divided by the following areas /sub-areas:



Due to the inventory scope, focused on OSS, the areas with the most standards are: Communication, Information, Security, Software.

12 more standards inventoried in 2016 vs 2011



10 of which are in the Information standards area



6 of which are used by the VLC software

Inventoried standards (2/2)



Below some examples of the inventoried standards, divided by area (in **bold** the standards not inventoried in 2011, in parenthesis the respective sub-areas):

Area	Examples of standards
Communication	S/MIME (E-mail), SFTP SSHFTP (Networking), NNTP (Newsgroup), RTSP (Streaming)
Information	AAC , MP3 (Audio), Unicode (Character sets), PDF (Complex documents), AVI, MIDI, MP4 (Container format), Atom , RSS (Content syndication), HTML (Hypertext documents), GIF, JPG (Raster graphics), CSV (Structured data), SVG (Vectorial graphics), H264 MPEG-4 (Video)
Security	RSA (Cryptography), AES (Encryption), TLS (Networking), ISO/IEC 27000:2009 (Policy)
Software	JCE (Cryptography), SQL (Database), Javamail (Email), SAML (Identity management), JCA, SOAP, WSDL (Interoperability), EJB, JSON (Languages), JMS (Messaging), BPML (Process), UML (Structured data)

Most frequently used OSS standards



Standard name	Applied on
SSL v3/TLS	Filezilla, openssl, Winscp
SFTP SSHFTP	Filezilla, Putty, Winscp
JavaScript (ECMAScript)	Eclipse, Firefox, Netbeans
HTTP/S	Filezilla, VLC
HTML5	Firefox, Netbeans
IP	Filezilla, Putty
RSS	Firefox, VLC
CSS	Netbeans, Firefox
FTP	Filezilla, Winscp
Atom	Firefox, VLC

For more details on the inventory, please refer to the project documents published at:

https://joinup.ec.europa.eu/community/eu-fossa/og_page/project-deliveries