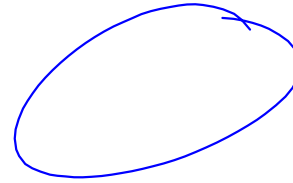
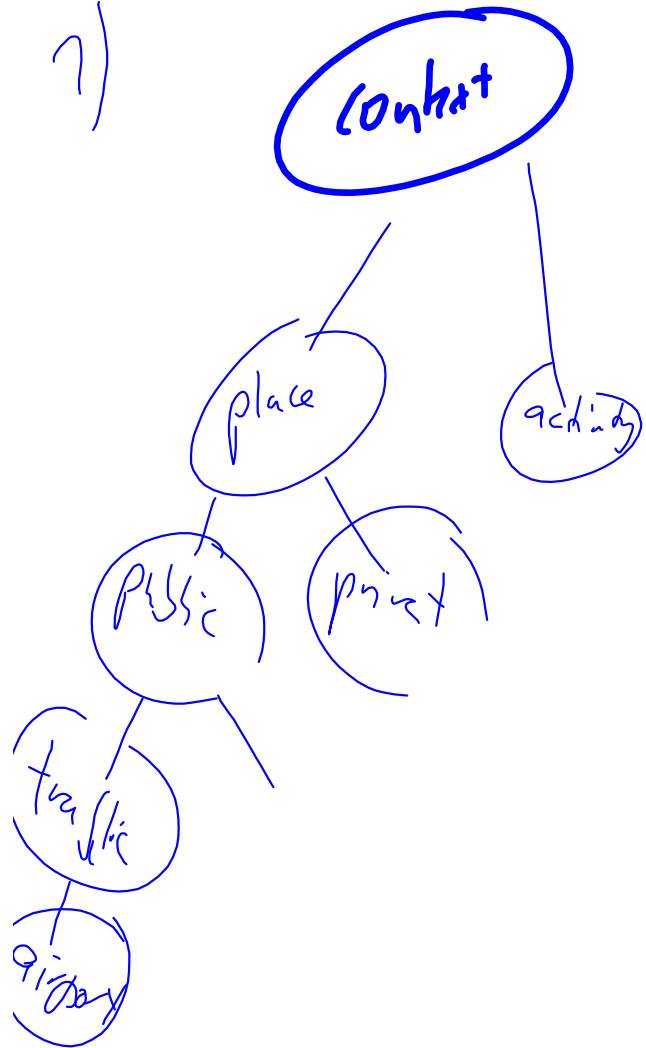


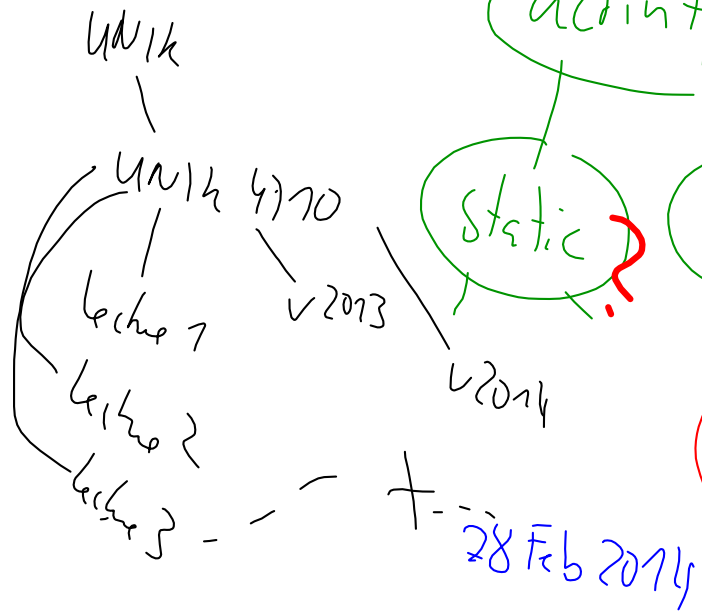
7)



- goal
- Swamp
- layers, what

3) Subjective

you decide



2) Goal-driven? \uparrow

- for what?

Example:

activity

rules define problems

static?

moving

KISS

simple, stupid

World is complex

↳ describe parts

Swamp 6%

> 90%

IBM:

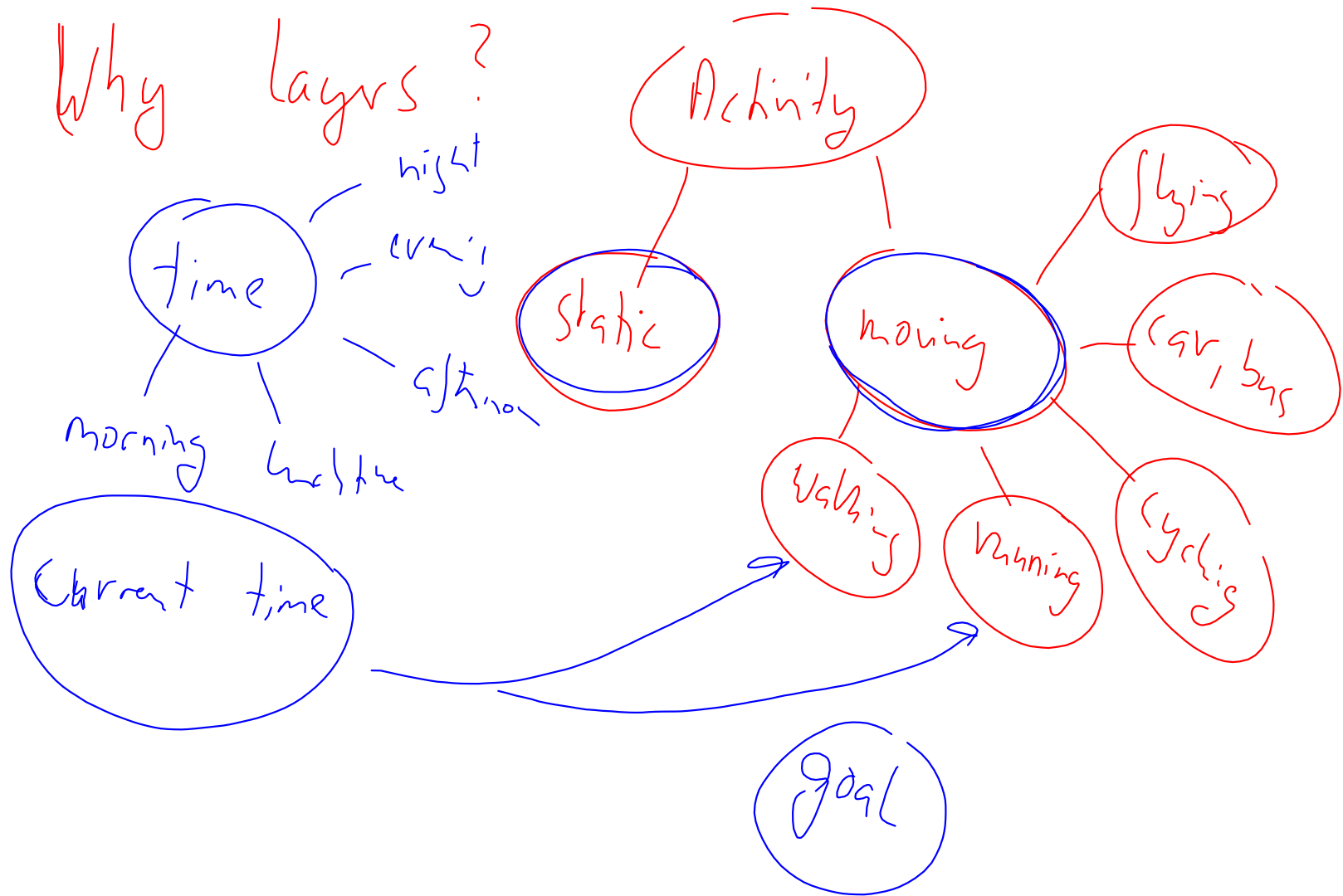
6% of our knowledge is structured

Rule-driven development: [MaraL]

- health monitoring & context

Example: puls rate > 120 & sleeping \Rightarrow alarm

Why layers?



Firefox | Hand's on experience with Ontologie... | Context-aware Scenarios - cwi.unik.no | LocalPresence - cwi.unik.no | UNIK4710MobileSemantics - Commu... | +

https://plus.google.com/communities/104779606787074263655?cfem=1&partnerid=gplp0

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UNIK4710 Mobile Semantics
Master and PhD Course at UiO and UNIK

UNIK4710 - Mobile Service Delivery

Abstract
Personalised and context-aware (location, activity, ...) generation Web technologies.
The course links the mobile and Internet service world context information (e.g. location, people, activity). The situations where Mobile Semantic Service Delivery is

Example 1: The way mobile advertisements are being your situation and your interest. - If you are running to be disturbed by anything else than the message that I

Example 2: Building communities in mind is independent to watch TV together. Let's enable chat and talk with a channel as me.

During the course we will develop some examples of services. Feel free to think about an example which fit

Keywords
Semantic Technologies, Semantics, Protege, Context Web3.0, Profiles, Preferences, Personalisation

Public 8 members

Search community

Members (8) See all

Marcel Eggum
Discussion - 9:20 AM

Presentation of refined Scenario, Classes and Rules.

... proposition was too wide.

Too complex
an untrained ontologist


to preserve the essence of
it

I want to narrow it down

+1 | Add a comment...

Marcel Eggum
Discussion - Feb 21, 2014

ISWC 2013 Conference video collection. This was an absolute gold-mine.
http://videlectures.net/iswc2013_sydney/

 12th International Semantic Web Conference (ISWC), Sydney 2013 - VideoLectures - VideoLectures.NET
videlectures.net

+1 | Add a comment...

About this community

Master & PhD Course at the University of Oslo, UNIK and others through video.


Kjeller

Marcel Eggum
Discussion - Yesterday, 6:39 PM #SemanticWeb

I am sorry that this is coming a bit late, but I wanted to let you know that the book "Semantic Web for the working Odontologist" by Dean Allemang is available for free (download) to us through the UiO Library. You have to sit on a PC computer to initially download it.

Read more

4:0

 Semantic Web for the Working Ontologist (Second Edition) - 9780123859655 | ScienceDirect.com
sciencedirect.com

+1 | Add a comment...

Kjetil Kjernsmo
Discussion - Feb 20, 2014 #SemanticWeb

Sorry I haven't been able to dig up the WebProtege notes before, but here they are. BTW, I can highly recommend the Semantic Web Summer School, where this exercise was given. If you have the chance to go, really do it!

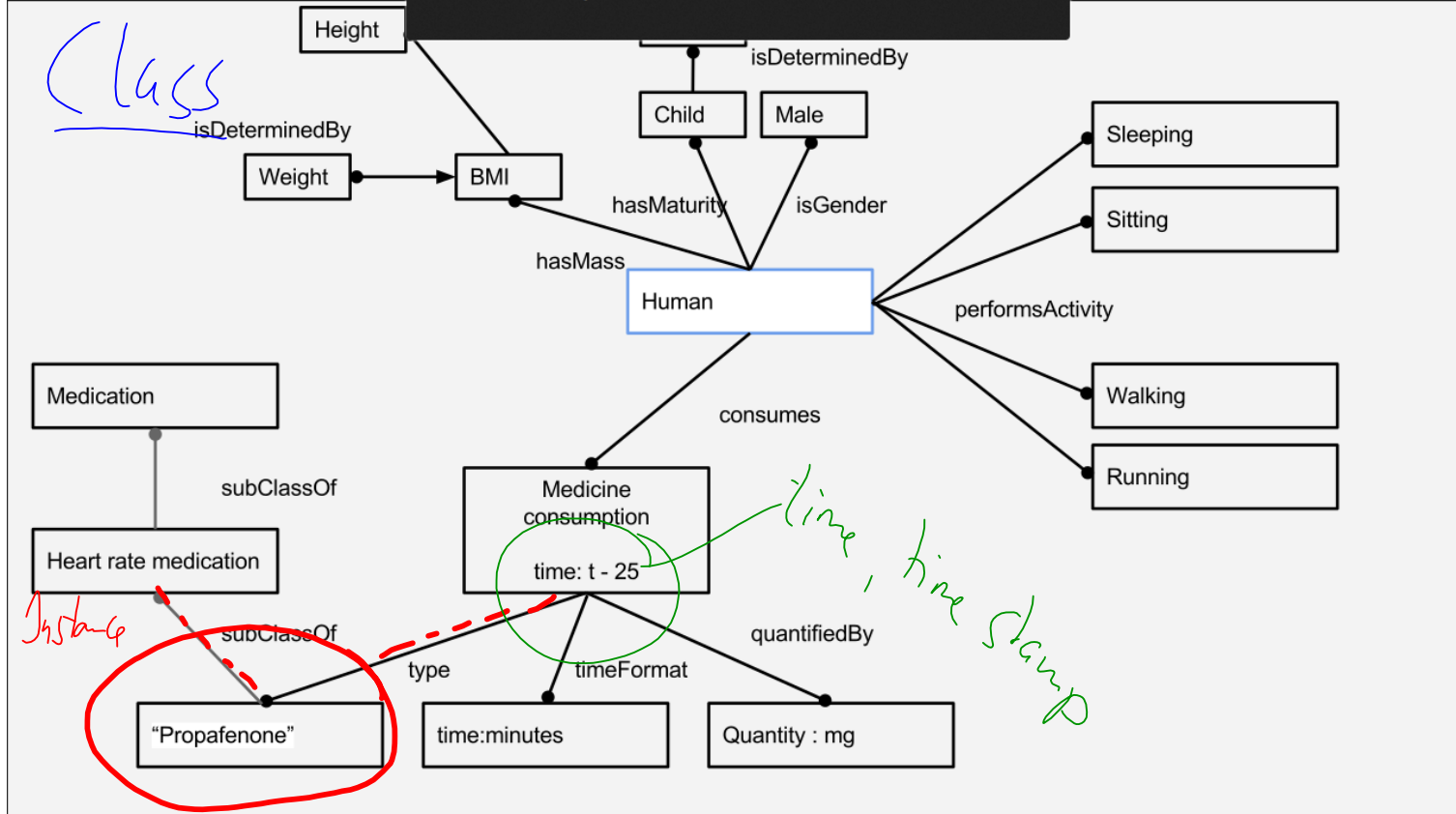
SSSW 2013 - Hands-on session 1 - Linked Data
sssw.org

- ③ Basics Ontology versus .RDF
class, instance, property
- ② ^{tools} Web Protégé - tutorial from Git | UNIS Ljno...
- ① - your classes & rules Marvel

Semantic Web Summer School - ssw.org

google.com er nå i fullskjerm.

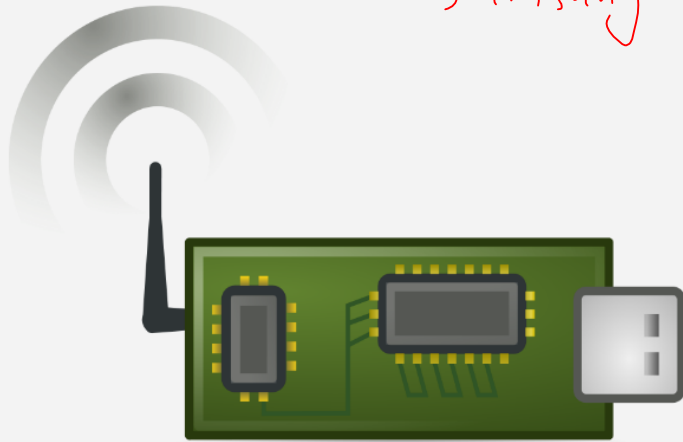
Trykk ESC når som helst for å avslutte.



google.com er nå i fullskjerm.

Trykk ESC når som helst for å avslutte.

Samsung (Watch) Puls Klokk



Further, existing medical sensors are closed source systems that are hard to re-configure.

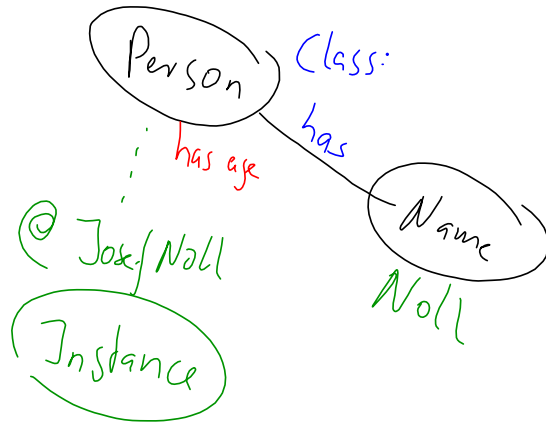
Future promises body sensors that monitor different properties

Sensors are heterogeneous, small and energy constrained. Need a common sink that can process the data

Moby Phone

Terminology in "Semantics"

how to represent

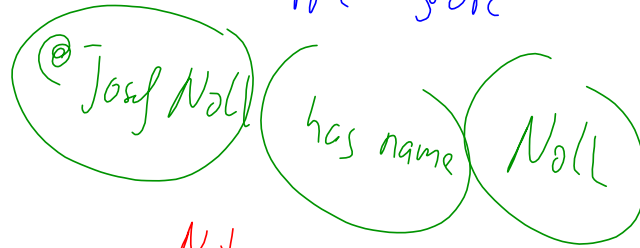


Property
is married

has child \longleftrightarrow has father/mother

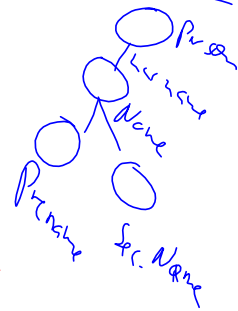
how to "store"/exchange

RDF = "triple store"



Note: often packed -xml file format

RDF-S = structure



OWL

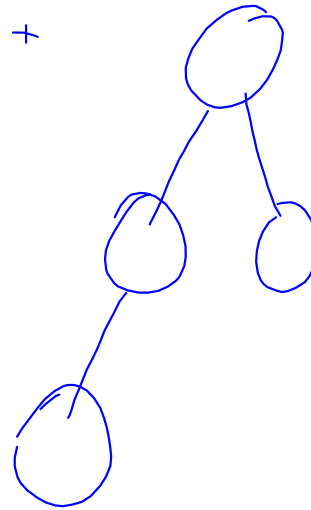
" Web Ontology language OWL

owl = rdf + rdfs++

- Tools: Protégé see last page on editors

- variants of owl - OL-query

- OWL2: 4 variants
- Reasoner - find hidden knowledge
- ~~engine~~ logic
- connect classes & properties
- achieve knowledge
- Rules - consistency of my ontology
- Query (ask)



- @Josef Wale

Semantic Web Services
OWL-S = service

Note:

en.wikipedia.org/wiki/Ontology_editor

Ontologies are developed for a specific purpose and application. Ensure the tool has the right interfaces for the information system developing it - which could be highly technical for a help desk/decision tree system and could be a non-technical librarian or business analyst for a knowledge map over an intranet. Also make sure that the end product can be used - i.e. that the tool has an API or appropriate export capability to plug the ontology into the desired application(s).

Example editors [edit]

for creating ontologies

- [a.k.a. software](#) (Ontology, taxonomy and thesaurus management software available from The Synercon Group)
- [Anzo for Excel](#) (Includes an RDFS and OWL ontology editor within Excel; generates ontologies from Excel spreadsheets)
- [Chimaera](#) (Other web service by Stanford)
- [CmapTools Ontology Editor \(COE\)](#) (Java based ontology editor from the Florida Institute for Human and Machine Cognition. Supports numerous formats)
- [EMFText OWL2 Manchester Editor](#), Eclipse-based, open-source, Pellet integration
- [Enterprise Architect](#), along with UML modeling, supports [OMG's Ontology Definition MetaModel](#) which includes [OWL](#) and [RDF](#).
- [FluentEditor for OWL](#), OWL ontologies editor with Controlled Natural Language (Controlled English). Supports [OWL](#), [RDF](#), [DL](#) and Functional rendering, unlimited imports and built-in reasoning services.
- [HOZO](#) (Java-based graphical editor especially created to produce heavy-weight and well thought out ontologies, from [Osaka University](#) and [Enegate Co, ltd.](#))
- [Java Ontology Editor \(JOE\)](#) (1998)
- [KAON](#) (single user and server based solutions possible, open source, from [FZI/AIFB Karlsruhe](#))
- [KMgen](#) (Ontology editor for the [KM language](#). [KM: The Knowledge Machine](#))
- [Knoodl](#) (Free web application/service that is an ontology editor, [wiki](#), and [ontology registry](#). Supports creation of communities where members can collaboratively import, create, discuss, document and publish ontologies. Supports [OWL](#), [RDF](#), [RDFS](#), and [SPARQL](#) queries. Available since early Nov 2006 from [Revelytix, Inc.](#))
- [Model Futures IDEAS AddIn \(free\)](#) A plug-in for Sparx Systems [Enterprise Architect](#) that allows [IDEAS Group 4D ontologies](#) to be developed using a [UML profile](#)
- [Model Futures OWL Editor \(Free\)](#) Able to work with very large OWL files (e.g. [Cyc](#)) and has extensive import and export capabilities (inc. [UML](#), [Thesaurus Descriptor](#), [MS Word](#), [CA ERwin Data Modeler](#), [CSV](#), etc.)
- [myWeb](#) (Java-based, [MySQL](#) connection, bundled with applet that allows online browsing of ontologies (including [OBO](#)))
- [Neologism](#) (Web-based, open source, supports [RDFS](#) and a subset of [OWL](#), built on [Drupal](#))
- [NeOn Toolkit](#) (Eclipse-based, open source, [OWL](#) support, several import mechanisms, support for reuse and management of networked ontologies, visualization, etc.... from [NeOn Project](#))
- [OBO-Edit](#) (Java-based, downloadable, open source, developed by the [Gene Ontology Consortium](#) for editing biological ontologies)
- [OntoStudio](#) (Eclipse-based, downloadable, support for [RDF\(S\)](#), [OWL](#) and [F-Logic](#), graphical rule editor, visualizations, from [ontoprise](#))
- [Ontolingua](#) (Web service offered by [Stanford University](#))
- [OWLGrEd](#) (A graphical ontology editor, easy-to-use)
- [RealParty Thesaurus Server](#) (Commercial ontology, taxonomy and thesaurus management software available from [Semantic Web](#))


Next week:

- Tutorial walk through
Web Protege (UNL4 4270...)
differences to Protege "lexer or", API.....
- Presentation on classes & rules

Firefox | Nika Vibliani - cwi.uni... | global world summit s... | LocalPresence - cwi.u... | UNIK4710MobileSema... | W Ontology editor - Wiki... | A Semantic Approach ...

cwi.unik.no/wiki/A_Semantic_Approach_for_context-aware_Authorization_in_Enterprise_Systems

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Local Presence

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Page | Discussion | View source | History

A Semantic Approach for context-aware Authorization in Enterprise Systems

A Semantic Approach for context-aware Authorization in Enterprise Systems

by	Hans Martin Sydsbogen Folkeseth
Supervisor(s)	Josef.Noll, Zahid.Iqbal
Due date	5.12.2013
Status	Finished

Problem description:

Single-Sign-On (SSO) is one of the dominant sign on mechanisms for the web. Though implementations of SSO are known for quite some year, with implementations from e.g. myopenid.org and Feide, they have only recently reached the mass market. Social networks like LinkedIn, Facebook and Google allow for SSO or rather remote authentication, which is then used for access authorisation of specific tasks on the server of the requiring party.

Current Single-Sign-On Systems are only delivering the "yes/no" authentication string back to requiring party. This binary authentication is not state-of-the-art, as it does not provide any information of the role of the person in the remote organisation or the trust-level resulting from the authentication. Advanced access systems include the notation of roles (RBAC) or even attributes (ABAC). Semantic technologies are seen as enablers for context information, which can be add as on of the attributes in an ABAC system.

This master thesis consists of research around the topic of authentication methods. We are interested what different kinds of policies that are available to us, third party authentication and what other purposes does the authentication mechanism (e.g. password) have other than pure authentication for common platforms (UNIX, Windows and OSX). The main purpose here is to find the effect of each method/policy that are available to us and henceforth theorize on some best practices.

This thesis will establish a model describing the cost-/benefit analysis for a company providing advanced authentication mechanisms, including SSO. A specific focus is on the use of passwords, as they are seen to be critical both with respect to security, but also with respect to usability.

The envisaged outcome of the thesis is a policy-based decision tree, allowing companies to define a required security level, and then adopt criteria which will met this required security. Common- and best-praxis examples are foreseen to elaborate on how close industrial solutions are to satisfy the security policy in conjunction with an easy-to-use algorithm.

Current Single-Sign-On Systems are only delivering the "yes/no" authentication string back to requiring party. This binary authentication is not state-of-the-art, as it does not provide any information of the role of the person in the remote organisation or the trust-level resulting from the authentication. Advanced access systems include the notation of roles (RBAC) or even attributes (ABAC). Semantic technologies are seen as enablers for context information, which can be add as on of the attributes in an ABAC system.

This master thesis consists of research around the topic of authentication methods. We are interested what

Applied Research For

- 5G Networks
- Internet - IoPTS
- eHealth
- Environmental Monitoring

Forms (Create Or Edit)

- Add User
- Add ActionItem
- Add Meeting
- Add Master-Thesis
- Add Lecture
- Add Course
- Add Paper
- Add PhD_Thesis
- Add a Project
- Add Task
- Add Organisation
- Add Project Proposal
- Interested in PhD?

List Of

- Projects
- Partners
- Users
- Recent changes

External Links

- UNIK wiki
- nSHIELD internal
- UNIK home page
- old Wiki

Help

- Help