

EU CELTIC-plus "Future Internet"

OASIS/EPR-forum Partner search at Telenor IT-Fornebu 3. March



Web: <http://eprforum.no>
<http://tGov.no>

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tGov: Advancing an overall framework for using IT to improve the delivery of Public & Private Services

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Present: Co-founder & CEO, 10 years, ***EPR-forum (tGov) 2004-***

OASIS member, 11 years, Chair ***OASIS CAM TC*** & Chair ***OASIS BCM EPR SC (Templating standards) 2003-***

COB , 20 years, ***Vitheia Norge AS / Integrasoft Srl (SW development) 1994-***

COB & CEO, 28 years, ***IT & Integration AS (Startups / Standardization/ Education) 1986 -***

Previous: Boardmember, 12 years, ***CEA/CEBus Industry Council (Bus Interoperability) 1987-1999***

IT consultant logistic & service management, 2 years, ***Electrolux 1987-1989***

IT and Finance manager, 4 years, ***Falck and G4S (Falken AS) 1983-1987***

Section manager SW R&D (Energy, Ship & Offshore automation), 2 years, ***Landis+Gyr (Valmet Automation AS) 1981-1983***

Project manager R&D (Energy, Ship & Offshore automation), 4 years, ***ABB (NEBB AS) 1977-1981***

The Future Service Model for Home & Community Healthcare

The eHealth project describes how new Healthcare services will be delivered using a range of new Open Technologies & Open Standards developed by OASIS and EPR-forum !



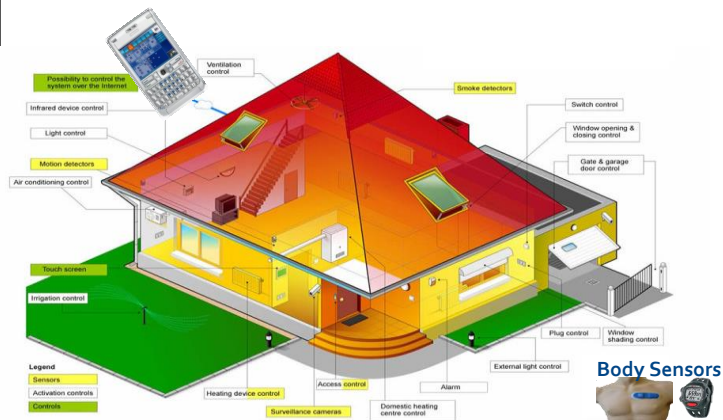
Advancing open standards for the information society

OASIS TGF, BCM and CAM



Open Industry standards

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IEEE DEST 2013

Special Theme:
**Smart Planet & Cyber Physical Systems
as Embodiment of Digital Ecosystems**

**Think GLOBAL
but
Act LOCALLY!**



Experts on TAP:

10. Seed Inaugural Workshop

Building a Digital Ecosystem for Societal Empowerment
Wednesday, July 24, 2013



Workshop Chair
Jenny Huang
Strategic Standards,
AT&T Inc.
Director of Research,
iFOSS.org



Workshop Facilitator
Ken Horner
Founder
Collaborative
Conversation



Expert on Tap
Achim Kärnduck
Professor



Expert on Tap
Mireille Cronin Mather
Executive Director
Foundation for
Sustainable
Development



Expert on Tap
Dr. Kouji Kozaki
Associate Professor
Institute of Scientific and
Industrial Research
Osaka University



Expert on Tap
Dr. Osamu Sakai
Academic
Programme Co-ordinator
Institute for
Sustainability
Peace
United Nations
University



Expert on Tap
Hans A Kielland
Aanesen
CEO
EPR-Forum



Expert on Tap
Rainer Rausch
Program Manager
World Solutions

We are excited to bring you a thoughtful and engaging workshop at the SEED Framework.

Traditional approaches to Social, Economic and Environmental development employed a closed, top-down model in which the input of local stakeholders is rarely sought. More recently, a growing emphasis on appropriate tools and well-defined processes towards common goals.

The SEED Framework, developed by iFOSS (International Free and Open Source Solutions Foundation), is specifically designed to support locally-led innovation with self-organizing, multidisciplinary collaborations and, most importantly, to translate concepts and ideas into actions. Combining the strength of both structured and unstructured workforces, the framework employs an open, "coopetition" strategy that integrates existing standards and practices across multiple sectors, enabling a high-level, results-oriented collaboration with a deep awareness of the local culture.

year's conference.

ED) have historically and the input of local and from a holistic, hindered by a lack of k effectively together

SEED Workshop 24. July – Stanford University, California, USA

(SEED = Social, Economic & Environmental Development)

Sustainable Digital Ecosystems in Social, Economic & Environmental Development.

The SEED framework developed by **iFOSS**

(International Free & Open Source Solutions Foundation)

Intention to support locally driven innovation with

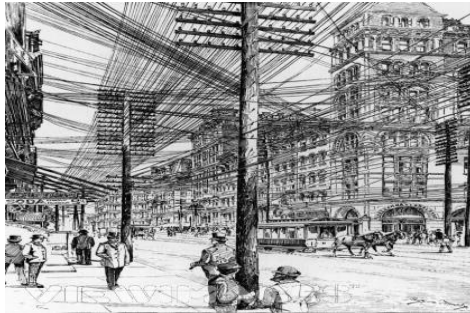
SELF-organizing & MULTI-disciplinary collaboration with focus on ACTION

(Translate Concepts & Ideas into Actions)

Track F:

"Healthcare & Sustainable Living"
The Future Service Model for Home & Community Healthcare

Learn from previous lack of standardization ?



Public Interaction needs
“open” XML-protocols and
not many parallel national
Infrastructures !



Do we have to make new mistakes ?



Info. Interaction: Differ INFRASTRUCTURE (Public Governance) from SERVICES (Business)

National Infrastructure Transformations!

(Today's Parallel Networks: Banking, Health, SmartGrid, TETRA/Emergency, Police, Military, Broadcasting, etc etc)

New thinking is required to differentiate between the following 5 important related aspects:

PUBLIC Management Responsibility

1. **National communication infrastructures: "Information Highways"** the national physical interacting Packet Switched IP-network using basically **Fiber** and **4G-mobile networks**.
2. **Shared Data:** Shared persistent **data in public registers**.
3. **Abstract Common and Open Service models handling Info. exchange:** Abstraction XML models for Information exchange – **Downward semantic compatibility interacting on shared Data**.

COMMERCIAL Business Responsibility

4. **Traditional Software Programs/Platforms:** The Software should be adapted and substituted continuously according to new applications, legislations, technologies and methodologies. All information Exchange should be done through common **Certificated Service Models**.
5. **Executing legislated public services and buying Care equipment:** Undertaken by both Private and Public enterprises.

Interoperability in the Infrastructure Layers

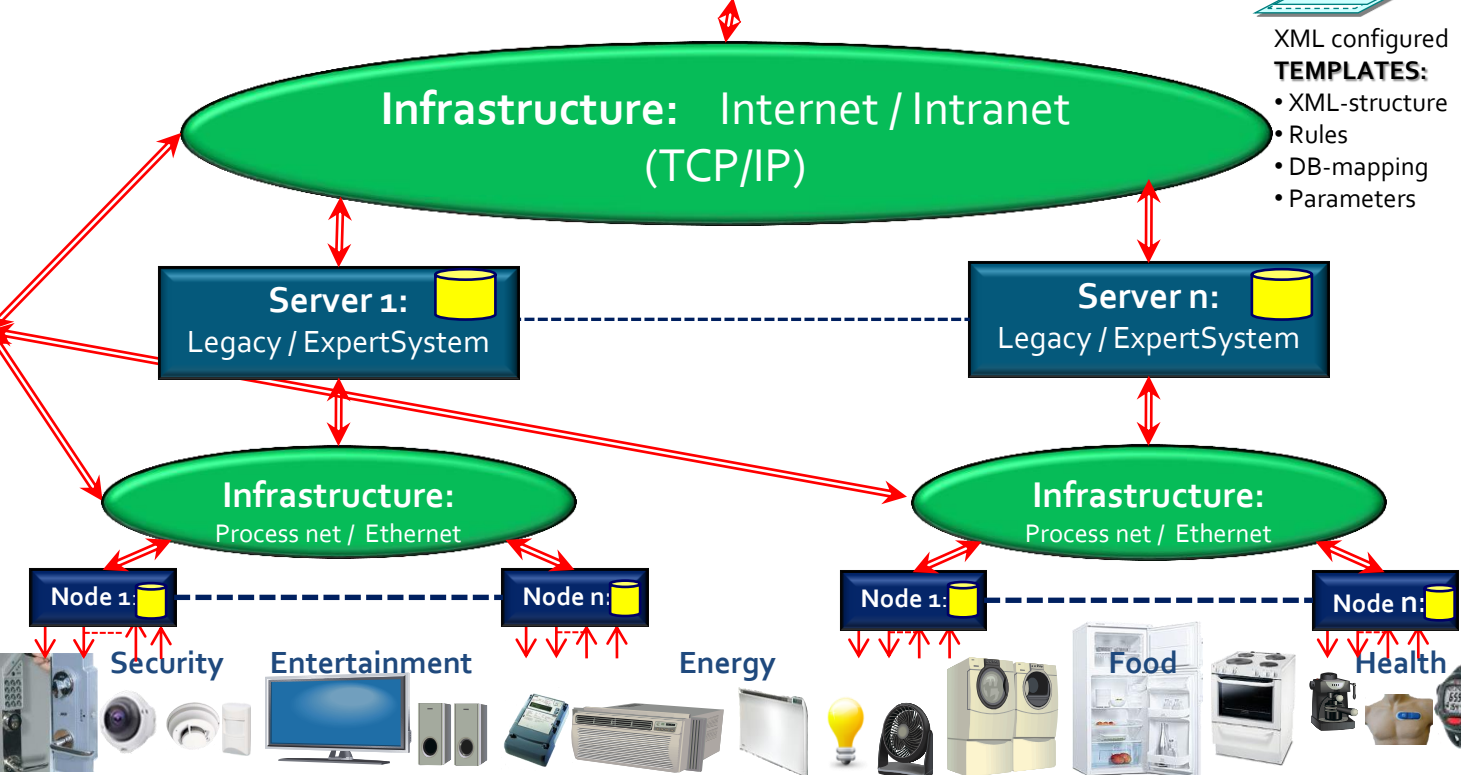
Common "Traffic Rules" (red arrows) a must to achieve Interaction, Integration and Reusability

HYBRID SYSTEM ARCHITECTURE: Define INFRASTRUCTURE & TRAFFIC RULES before implementing SERVICE SOLUTIONS

Multi functional User Interfaces :
SmartPhone, PDA/Pad, LapTop, PC , Touch Screen etc

Flexible and Open User Interface:
OS independency (Cross Platform based)

Top Level Server: Interexchanging & Service driven Super Structure



"Cloud of Things": Home Application Areas / Application Groups

(Network with EPR-eDevices)



Work Instructions & Reporting:
SmartPhone as Work Organizer & Control unit (Self Management)

Health Condition Monitoring:
Body and Environmental sensors and Self service and Self Diagnostic



- Appl. Groups:**
(Functional Profiles)
- 0x General
 - 1x Audio/Video
 - 2x Lighting
 - 3x Communication
 - 4x HVAC
 - 5x Utility
 - 6x Security
 - 7x Appliance
 - 8x Convenience
 - 9x Food
 - 10x Health
- x = sub groups

Meal preparation & Environmental control:



Security & Environmental control:



Energy with Environmental control:



NANO-based Health condition sensors:



"Cloud of Things" with EPR-eDevice & OASIS CAM Templating:

Open "mirroring" standard by Functional XML-modeling of Network eDevices (Nodes)

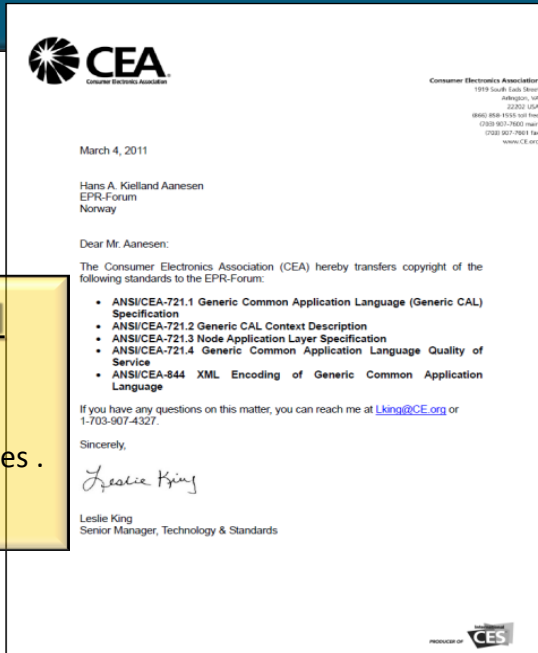
30 YEARS OF FUNCTIONAL STANDARDIZATION: (1984- 2014)

The Interoperability standard of electronic network based equipment is derived from the ANSI/CEA-721 work developed and specified over the last 30 years by more than 400 companies, organizations and individual persons as:

OASIS NEW XML-UTILIZATION (EPR-eDevice)

(Building blocks in EPR-eDevice CAM Dictionaries)

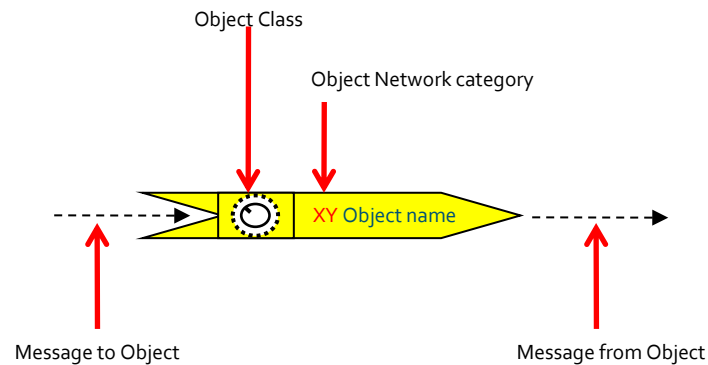
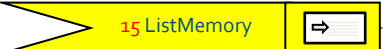
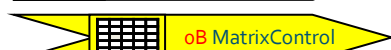
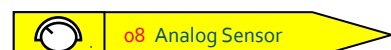
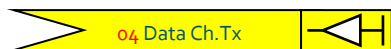
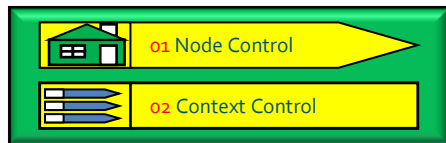
The standardized functional models of networking Nodes .



- ABB
- Ademco
- AMP
- Analog devices (Domosys Corporation)
- Caddx Controls
- Chamberlain Group
- Cutler-Hammer
- Diablo Research Corporation
- Dr. Ken Wacks (MIT)
- Ericsson
- Full House Control
- General Electric (Homenet)
- Honeywell
- HP (Compaq Computer Corporation)
- Hypertek
- IBM
- Intel
- IntelHome
- Intellon Corporation
- Interactive Media Systems
- ISO/IEC JTC1 SC25 WG1 Home Electronic System
- IT & Integration (EPR-forum/OASIS)
- Leviton
- Lucent Technologies
- Microsoft
- Molex
- Panasonic Technologies
- Philips
- Siemens
- Smart Corporation (Microsoft + GE)
- Tecom
- The Training Department
- Thomson Consumer Electronics
- XLSynergy

EPR-eDevice Modeling OBJECTS/Components (Symbols)

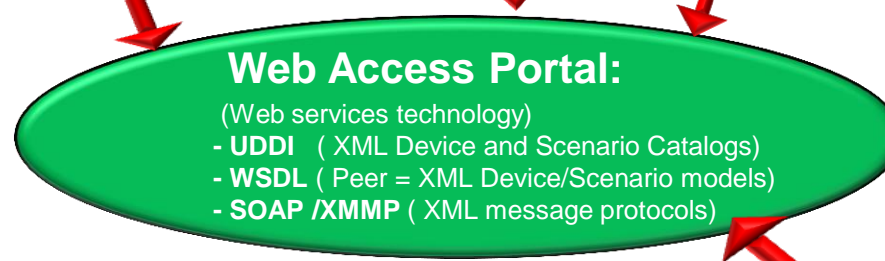
(Model elements made by OASIS Template eDevice Dictionary)



EPR-eFolder/EPR-eDevice Access structure

INTERNET / INTRANET

WEB Browsers: Thin Clients (OS independent Client User Interface GUI)



SOA Front Office
Portal + UDDI catalog
 (WSDL/TEMPLATE-models of eDevices + Scenarios)

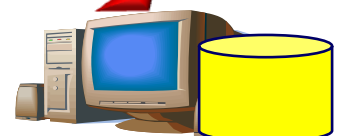
PROCESS SERVER

Home server
Interface



PROCESS NET

Bus controlled eDevices:



EPR-eFolder/EPR-eDevice Wireless Network sensors

INTERNET/INTRANET

WEB Browsers: Thin Clients (OS independent Client User Interface GUI)



Service
management/
Practitioners:

Web Access Portal:

- (Web services technology)
- UDDI (XML Device and Scenario Catalogs)
 - WSDL (Peer = XML Device/Scenario models)
 - SOAP /XMPP (XML message protocols)

SOA Front Office

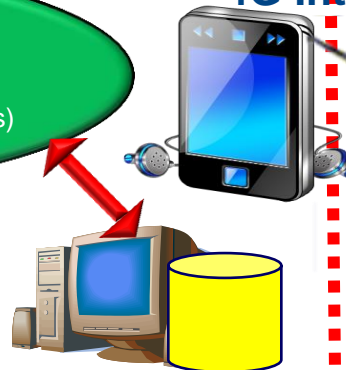
Portal + UDDI catalog

(WSDL/TEMPLATE-models of eDevices + Scenarios)

PROCESS SERVER

Personal server

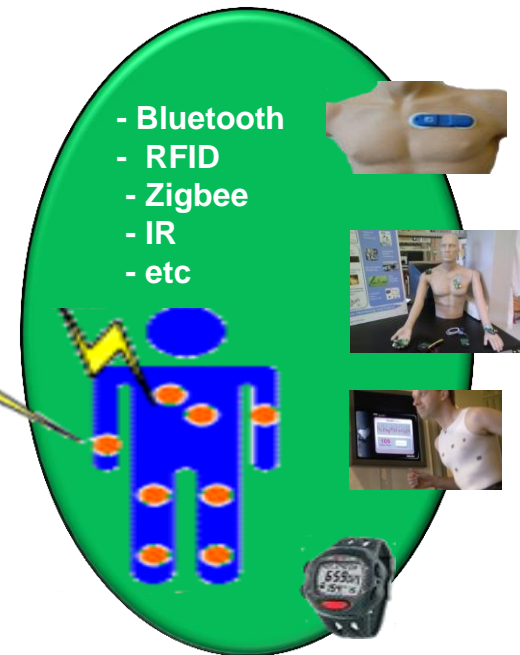
4G Interface



PROCESS NET

Bus controlled eDevices:

- Bluetooth
- RFID
- Zigbee
- IR
- etc



EPR-eFolder Service Management

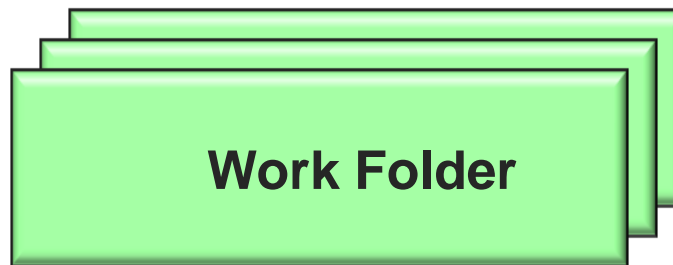
(Workflow Engine: eFolder Container with Work folder & TEMPLATE Steering cards)



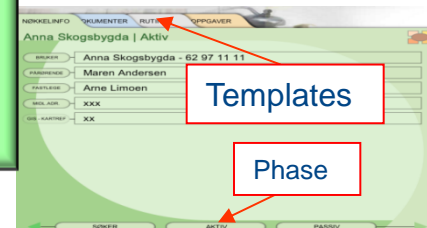
Access Service Portal:

Role

Single Sign-On portal:



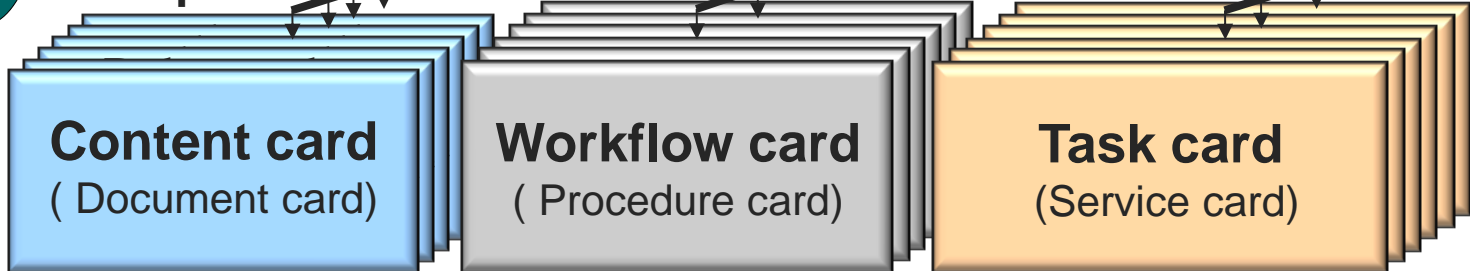
Work Folder



Templates

Phase

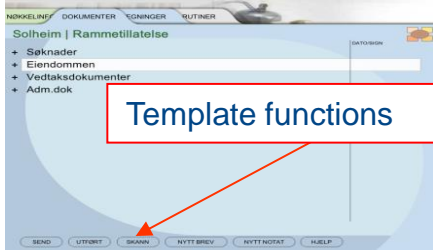
Templates:



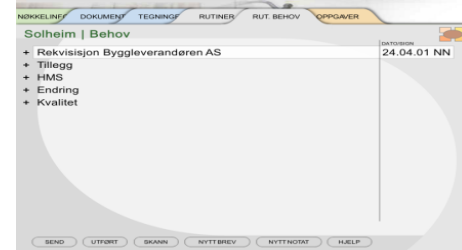
Content card
(Document card)

Workflow card
(Procedure card)

Task card
(Service card)



Template functions



Demo

EPR-eFolder Scenario OASIS BCM/CAM Template Examples:

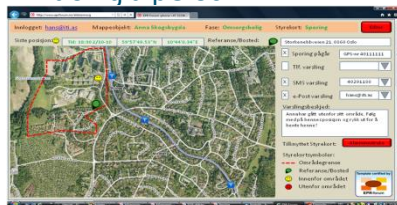
(Scenario Adaption/Composing)

TEMPLATES examples specified by Health care Practitioners for individual people with Dementia:

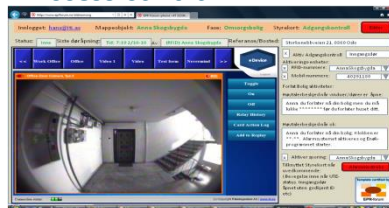
APPS:



Tracing a person:



Access control:



Social Security:



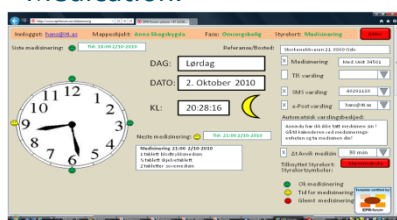
Fall/movement of a person:



Condition Monitoring:



Medication:



Tracking an object:



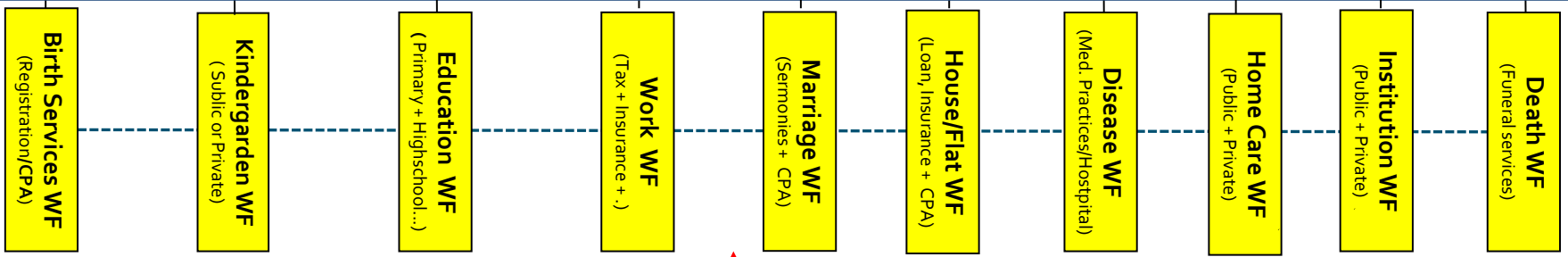
“Scenario Composing”
Driven by Health care practitioners!
Interaction between Working processes & Routines as response on Deviation Handling by ENVIRONMENTAL TECHNOLOGY

Service Phases in a Citizen's Lifecycle in your own Service Folder

Self Service / Self management with Service Folders & Condition Monitoring

CLOUD PORTAL

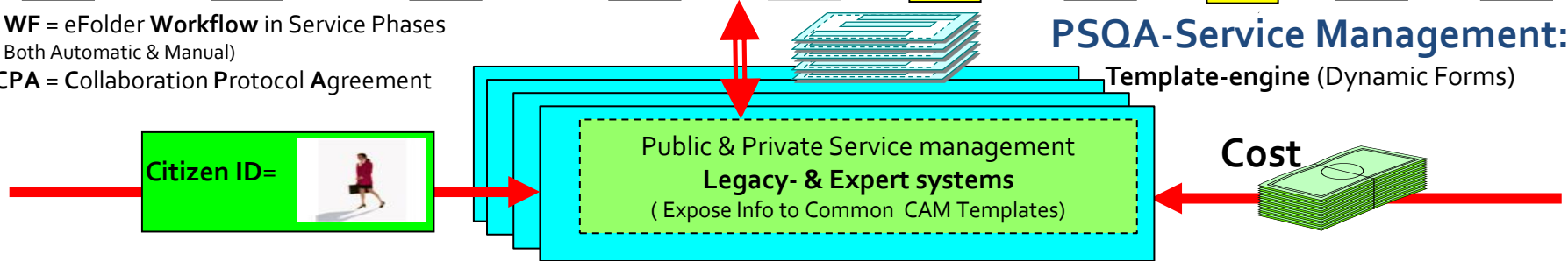
PSQA = Public Supervision & Quality Assurance:
Delivering of Quality services



[time]

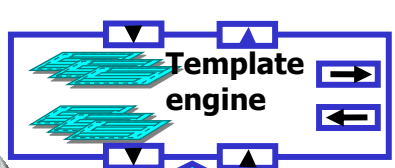
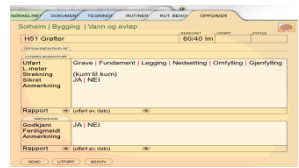
WF = eFolder Workflow in Service Phases
(Both Automatic & Manual)
CPA = Collaboration Protocol Agreement

PSQA-Service Management:
Template-engine (Dynamic Forms)



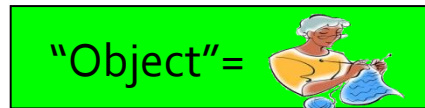
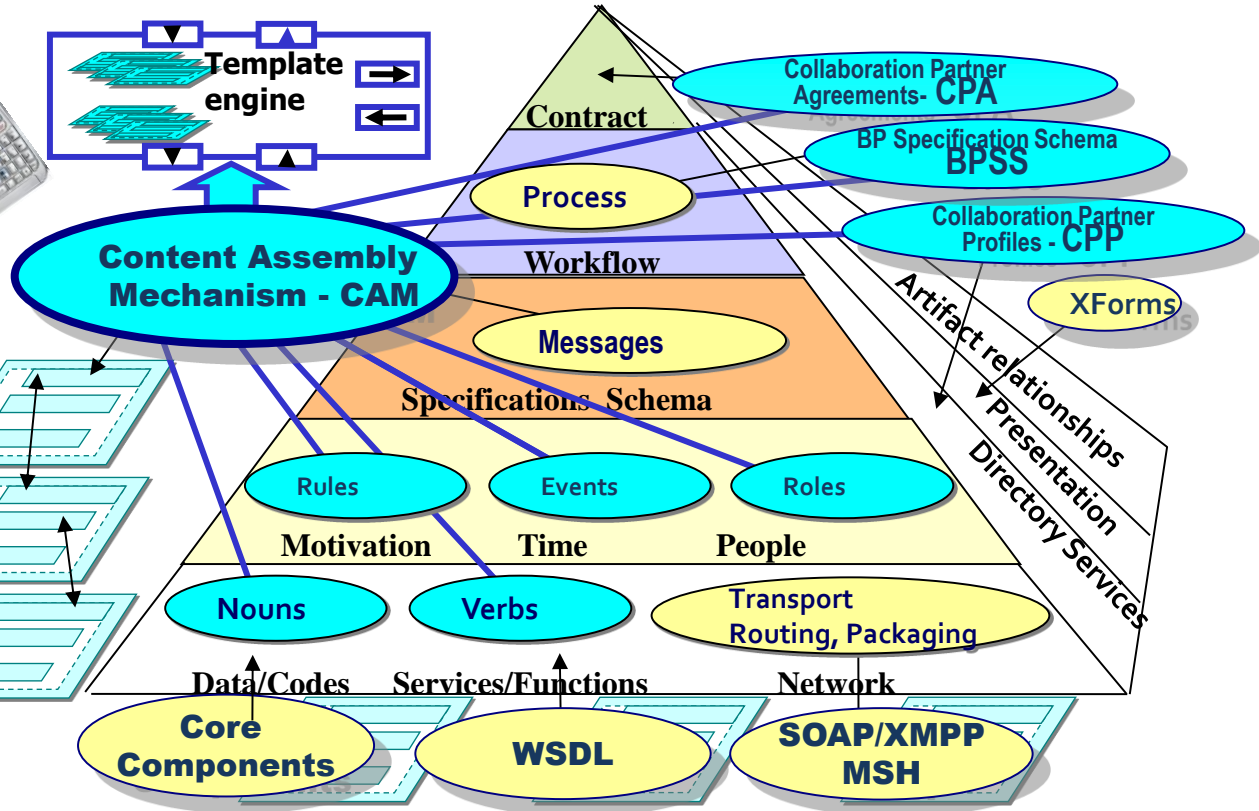
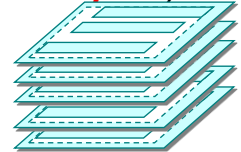
Semantic Interoperability Standards Stack

(OASIS CAM, BCM, SAML, ebSOA, BPEL)



EPR-eFolder Templates:

Organizing and Orchestrating Loosely coupled applications (ebXML, WS)



XML-based OASIS CAM TEMPLATE modeling.

OASIS CAM-editor <http://www.cameditor.org>

SOURCEFORGE EPR-forum starts Education in Templating Methodology at BI from medio 2013:

Visit project camprocessor
Register
Log In



OASIS



page discussion view source history

Main Page

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[Screenshots](#)
[Uses of CAM](#)
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CAM - Content Assembly Mechanism - toolkit

The CAM editor is the leading open source toolkit for building and deploying XML exchanges. The [OASIS CAM](#) is a public open standard. CAM can import, analyze and refactor existing exchange XML Schema for better compatibility and use in middleware, including generating model compliant XML Schema consistent with enterprise integration patterns.

CAM provides an intuitive approach using a WYSIWYG visual structure editor to dramatically simplify the process of developing and managing XML business information exchanges. This gives developers control, insights and analysis that are needed for consistent, interoperable and reliable exchanges. The CAM toolkit also automates the tasks of generating supporting artifacts such as business documentation, cross-reference spreadsheets, models, XML Schema and test XML instances. Compatible with the [NIEM](#) approach for information exchange integration with extensible profiles for NIEM, OASIS and more.

The CAM toolkit supports the use of Canonical Model dictionary components with visual Drag and Drop designing. Also provides a set of tools for harvesting and generating canonical dictionaries from existing XML Schema libraries or enterprise data modelling tools.

The standalone CAMV validation engine, written in Java, implements an XML validation framework using the OASIS CAM specification as the foundation. Also designed for integration with Service-Oriented Architecture (SOA), the CAMV XML validation framework supports use with other message based integration patterns such as Enterprise Application Integration (EAI), [LEXS](#) (Logical Entity Exchange System) and ebXML messaging systems.

Sponsors

ORACLE

Oracle is a proud sponsor of the CAM project and its application to the National Information Exchange Model initiative along with XML information exchanges for public sector applications.

Screenshots

Illustrative screenshots from CAM editor main menu interface

CAMed Screenshots



CAM-dictionaries:

- EPR eDevice Templating
- EPR eFolder Templating

Real Time Cloud Computing & Cloud of Things

Nursing People:



(www.tGov.no)

Startups Smart & Easy Living concepts:

META-Engineering:Sustainable Digital Eco-systems by Self –Service/Management

1. Transformational Government(www.tGov.no / www.niem.no) (eGov/PSQA)

- OASIS/EPR-forum Bridging Systems in Real Time (www.eprforum.no)
- Electronic co-operation community (www.esam.no) "eSamarbeidsarena"

2. SmartHealthCare (eHealth)

- tGov "Omsorgsteknologi" www.omsorgsteknologi.no
- CareTech www.caretech.no
- GymTech www.gymtech.no

3. SmartGrid (eEnergy)

- The new Vehicle in Smart Grid optimization www.vsg.no

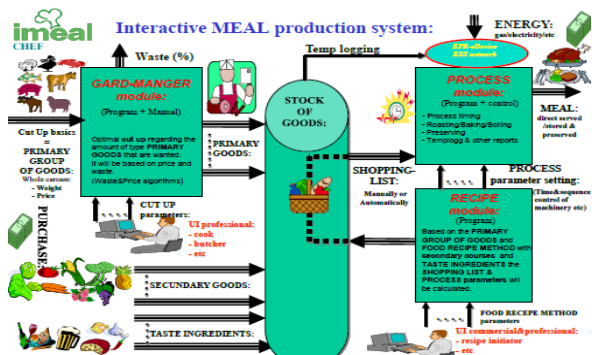
4. SmartFarming (eFood)

- Interactive Meal www.imeal.no (iMeal Farm, iMeal Chef, iMeal POS)
- FishBizz PSQA-monitoring & Sale of Fish products www.collbiz.no (CEN CWA 16597)

5. SmartLearning (eLearning) Distant Learning:

- Norsk Maritim Skole www.norskmaritimskole.no
- CareTech www.caretech.no

Nursing Plants & Animals:



tGov Executive Team



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COB EPR-forum
BI Lecturer at Research Departments.
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Founder and CEO EPR-forum. Co-founder Vitheia AS
Chair positions and contributor to OASIS TCs
Lecturing OASIS adaption Forum, IEEE conferences, BI etc



Eugen Rotariu:

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Lecturer Petru Maior University Mathematics & Informatics.
Author SW Languages books/compendium (Java, C++, etc)



Knut Yrvin:

Co-founder Skolelinux and has been Community
Manager at Qt Development Framework, Nokia and
later Digia. Now working with Smart Greenhouse
automation. Skolelinux is now a part of Debian Edu



Dag Asheim:

COB Skolelinux Drift, Director of R&D at TrendTech.
IT professional and successful entrepreneur.
Specialties: Free software, business strategy, finance

R&D Partners ?

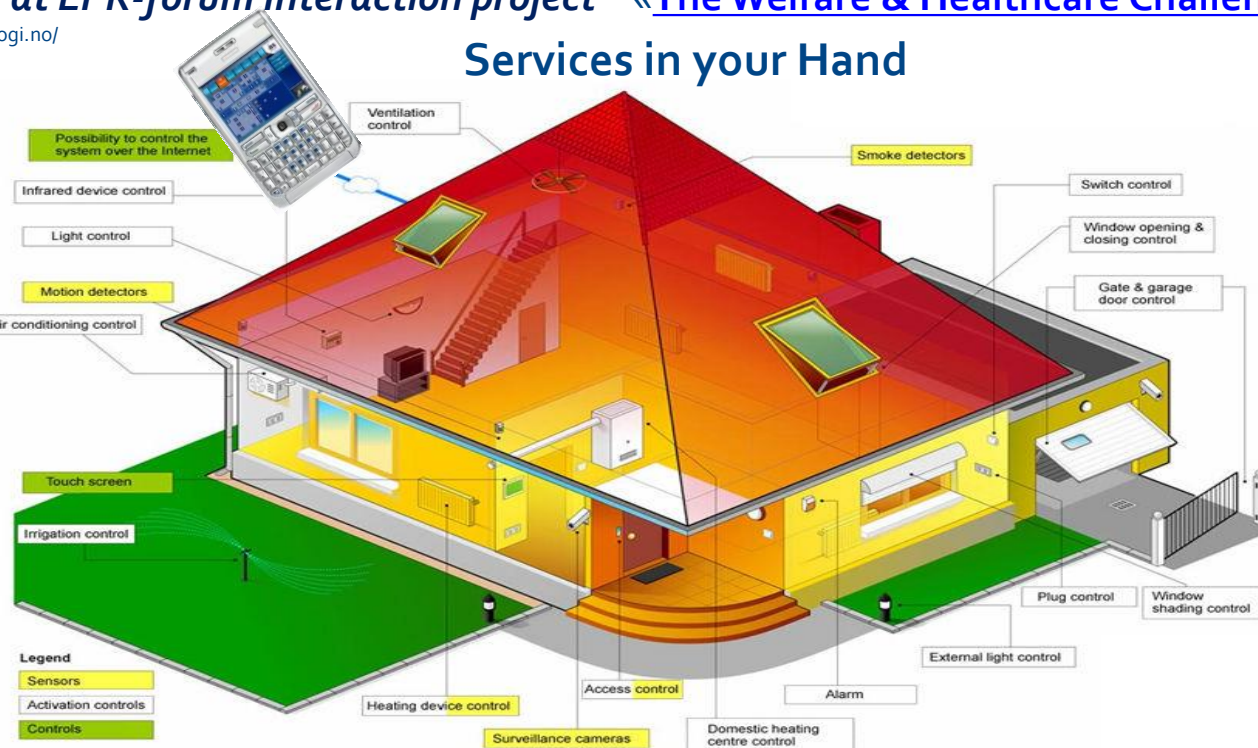
Infrastructure owners in Fiber and 4-5G mobile (Telecom&Utility companies)

New Disruptive Internet Innovation with www.tGov.no

Read more at EPR-forum Interaction project «[The Welfare & Healthcare Challenges](#)»

<http://omsorgsteknologi.no>

Services in your Hand



Body Sensors

