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Position paper for the 2nd usage areas workshop on the Future Internet e-health

CETIC - Damien Hubaux




www.cetic.be

Your connection to ICT research



Position paper - CETIC - e-health

Damien Hubaux

- Center of Excellence in Information and Communication technologies
- Applied Research & Technology Transfer
-  Walloon Region - Belgium

Related projects:

- E-health for Citizens (regional - FEDER)
- OLDES: OLDER people E-Services at home (FP6)
- PONTE: (FP7)



Software & Service Technologies

Helping businesses to exploit faster new distributed, dynamic, semantic, service-oriented architectures

Embedded & Communication Systems

Helping businesses to develop

« ambient intelligence » systems based on mobile / wireless technologies

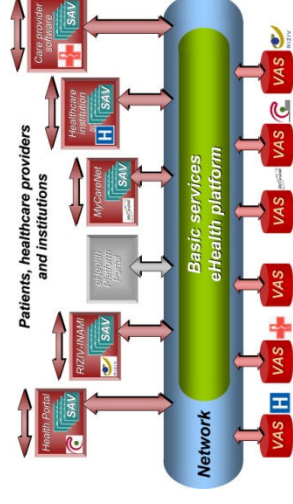
Software & System Engineering

Helping businesses to improve Software & Services quality and security



Scenario : e-health platform regional health network (RSW)

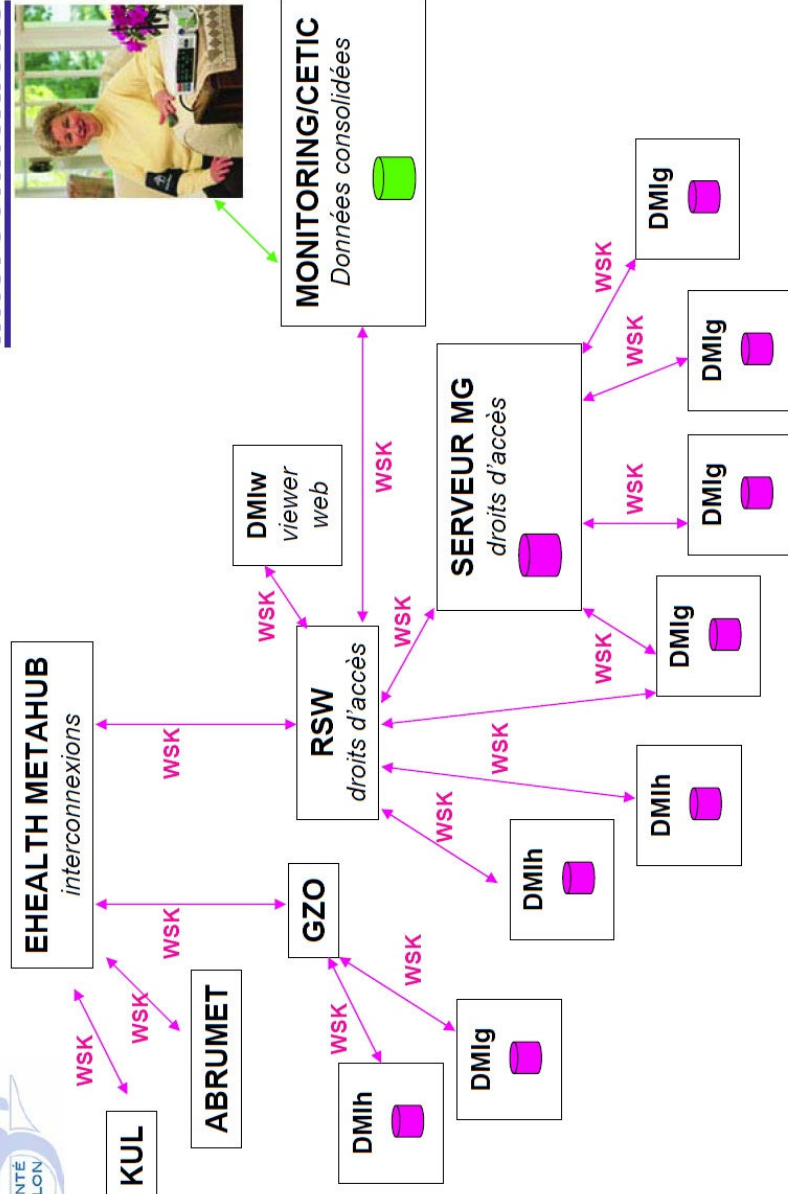
- Build on technology and experience of
 - e-health platform: top-down
 - regional health network: bottom-up
 - Progressive deployment, take-off
- Connect specialists in hospitals
 - E-health platform: common services
 - RSW: remote access: data transfer, access rights
- Very decentralised and locally managed storage and services
- Operated via a set of coordinated communication hubs



Scenario : e-health platform regional health network (RSW)



Interconnexions



WSK = les web services kmehr



Données de monitoring



Données nominatives

Properties and needs

Properties

- Data access control adjusted on each piece of data that may require different access rights
- Security and authentication mechanisms
- Ad hoc service composition and mashup
- Context awareness
- Sensor networks
- Web portals

Needs

- Web centric approach
- Ad-hoc aggregation
- Native secure access and communication between delocalised storage systems-
- High quality semantic annotation for health web services and at-home health devices,
- Seamless interoperability
- Internet of Things

Experiment environment Potential Role

- RSW and testbeds for extension
- Connection between patient-centered at-home monitoring and interlinking with existing medical software and health networks
- CETIC can connect to/between health partners
- CETIC can contribute in semantic interoperability for data and services in order to provide flexibility in the composition of both

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