Welcome!
IT architecture requirements for telemonitoring in Austria

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Workshop 3: National Health System Architectures for Personal Health Services
eHealth Summit, 25.5.2016
Agenda

- Impulses
  - Welcome to IT architecture requirements for telemonitoring in Austria
    - Stefan Sauermann, University of Applied Sciences Technikum Wien, Vienna Austria
  - Connected for Health - telehealth in Denmark
    - Katrine Vedel, Healthcare Innovation of Southern Denmark
  - Telemonitoring in Germany
    - Stefanie Berger, Admir Kulin, Vitaphone, Germany
  - Telemonitoring in Turkey
    - Ismail Kaya, Karadeniz Technical University, Trabzon, Turkey
  - eHealth - the future we create today
    - Horst Merkle, Personal Connected Health Alliance, President

- Discussion
Telehealth services in AT

- Healthcare reform is a national activity
  - Ministry of Health
  - Regions
  - Social / Health Insurance providers

- National electronic health record is underway
  - Central components are online 2015-12-09 – proudly delivered!!!!
  - Vienna, Styria hospitals are already connected
  - Other hospitals in Austria scheduled until end 2016
  - Resident doctors 2017

- Goal is to add telehealth services
  - Step 1: Diabetes, heart failure, implant follow up, selected as medical priorities in 2014
    - Legal, financial, organisational, ...
    - IT Architecture
  - And then??
Disease Management Programs are the starting point

- Telehealth services will support specific Disease Management Programs (DMPs)
  - DMPs define
    - Who is doing what, roles, rights, duties, …
    - Processes: Medical, administrative, regulatory, technical, …
  - Infrastructure is needed
    - able to support all possible DMPs
    - covers basic legal, financial, organisational issues
Where do we stand

- IT architecture was developed
  - Work started 2015-10
  - Engagement of IHE-AT, HL7-AT, … , „Interoperability Forum“
  - 5 Workshops done, research, high level discussions
  - Architecture draft was finalised 2016-4

- Experience on interfaces collected
  - PHD to AHD: varied, BT 4.0 / LE /smart on the rise?
  - Products: Few standardised PHDs, nearly no AHDs
  - AHD/HDH … EHR: IT Infrastructure still needed
    - To bridge from proprietary interfaces
  - We are in touch with Continua!!!
IT Architecture

1. Personal Health Device (PHD) - X73 Agent
   TAN / PAN / LAN (optional)

2. Application Hosting Device (AHD) - X73 Manager
   PCD-01, PCD-09 (optional)

3. ICT Infrastruktur
   Document Source
   ITI-41

4. GDA Software
   Document Consumer

5. ELGA
   ELGA incl. ITI-41, ITI-18, ITI-43

Continua
IHE
ELGA
Recommendations (summary)

- **Immediately**
  - Interface 1, 2: optional
  - Interface 3, 4: mandatory
  - Start a list of products that are to be used in telemonitoring
    - Including combinations of compatible products
    - Manage this list transparently and in cooperation

- **Start cooperations**
  - navigate towards completely standardised systems
  - Agree on steps and schedules to carefully add standards
Where do we go from here?

- We have requirements on the „process“!!!!

- IT architecture must be harmonised in the international context
  - Continua, IHE, HL7, …
  - Will be an ongoing process

- Input welcome!!
  - News from Vienna !?
  - News from Denmark, Nordics ??
  - ...

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Formal status

- The architecture was developed in cooperation with a team of experts
- THANKS!!!!!!

- A report was submitted to the Ministry of Health
- The report is now on agendas to be decided upon:
  - Projektgruppe Telegesundheitsdienste
  - Fachgruppe Innovation

- This is preliminary!
- Before we spread the news: We need to wait for formal decisions!
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- **Discussion**
Agenda

- Impulses
- Discussion
  - Interoperability Levels: Legal, organisational, semantic, technical
  - Medics
    - Are there disease management programs? Do we need them?
  - The vendors
    - sustainable business cases?
    - compatible medical devices?
    - compatible AHDs?
  - The procurers
    - What do we need by when?
    - Standards in procurement
Observations on „The Structure“

Continua
- Guideline Writers
- Vendors
- Plugfest
- Certification

Regional Frameworks for telemonitoring
- Administrators
- Procurers
- Operators
- Nth Level Support
- 1st Level Support

List:
- Products that „Plug and Play“ in selected scenarios
- Efficient feedback channel to solve interop. issues

Missing?
Looking forward to comments, ideas, cooperation

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