Towards a New Health and Social Care Information Sharing Architecture













Towards a New Health and Social Care Information **Sharing Architecture**

The Changing Environment















Doctors' surgeries will have to set up services to allow anyone to see their health files, book appointments and order repeat prescriptions on the Internet.

The new campaign is being spearheaded by Jeremy Hunt, the Health Secretary.

"Looking after their own health, and the health of their families needs to be as straightforward as possible.

"Looking after our health should be easy — in an age where people can do their banking or shopping online, it should be just as simple to view your health records, order a repeat prescription or book a GP



1) is this in the **interest of people whose hypochondriac and worrying tendencies** are made worse by all the medical information on the internet?

- 2) how much will it cost?
- 3) what's wrong with the current system where you can request your records from the surgery?
- 4) how will it be secured a) from hackers b) from your boss c) from your intimidating other half or family member who is standing next to you at the computer and demanding that you log in?
- 5) is this going to cause doctors to have to go through your records with a **fine-toothed comb to weed out an ill-advised comment made in 19-whenever** when the idea that patients could sue or access their records online was very remote.





My partner's doctor here in France hands over the hard copy of any documents to her. This includes notes and letters passed between doctors and other specialists. He keeps an electronic copy. This means we have all the x-rays, DVDs of MRI scans etc. He gives a regular print out of any notes made.

The notes are released on the processing of the Carte Vitale which has a photo of the patient.

Other doctors can have accss to her records through the Carte Vitale system.

It puts the patient at the forefront of treatment.

When I moved to France from the UK some years ago I obtained a photocopy of my medical records. It contained notes in code which made no sense to me whatsoever. I could find nothing regarding hospital treatments ,the fact I had broken my leg when 11 yrs old , had my tonsils out etc. No vaccines as a child or adult were noted. The french doctor said the notes were worse than useless.



Why is the **NHS so out of date**?



NFN – Normal for Norfolk. FLK – Funny Looking Kid. GLM – Good Looking Mom.



Who, other than hypochondriacs, narcissists, neurotics, ME 'sufferers', DLA scroungers and the mentally ill, wants this? And, for all the groups mentioned, this will only make them feel worse, do no good at all and increase costs. How much will it cost, how secure will it be and how late will it be? If doctors cannot be frank in the notes, they will end up being defensive and guarded, which will be bad for everyone. Sadly, NFN, FLK and GLM have largely disappeared but this is the death knell.

The truth is, however, that a patient-accessible record system is essential for the dismantling and selling-off of the NHS. Alternative providers, doctors and Prince Charles' quacks and businesses run by Hunt and Lansley's mates will be able to read them, print them, import them and invoice services accordingly. "Oh, I see you've never had any of my very special water, never tried accupuncture, had this scan." That is what this is about, whether you agree with it or not.



The problem is that the doctors may not be telling the "truth". My partner was diagnosed as a psychiatric case when she lost use of her legs. A letter from the neurologist who examined her said she had had an MRI scan. That had never taken place. All doctors treating her afterwards took that as gospel.

I reviewed her case and discovered that and **other serious** errors by other neurologists, rheumatologist and opthalmologists.

In the end I requested the MRI scan and all accompanying tests for **Multiple Schlerosis and every one proved positive**. A review of all previous tests including one when she had lost vision in one eye had pointed to MS.

Maybe knowing the patients can see all the results of tests etc may lead doctors to be more careful.

My partner is french and medical records rest with the patient. The doctor keeps an electronic copy.



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Why?



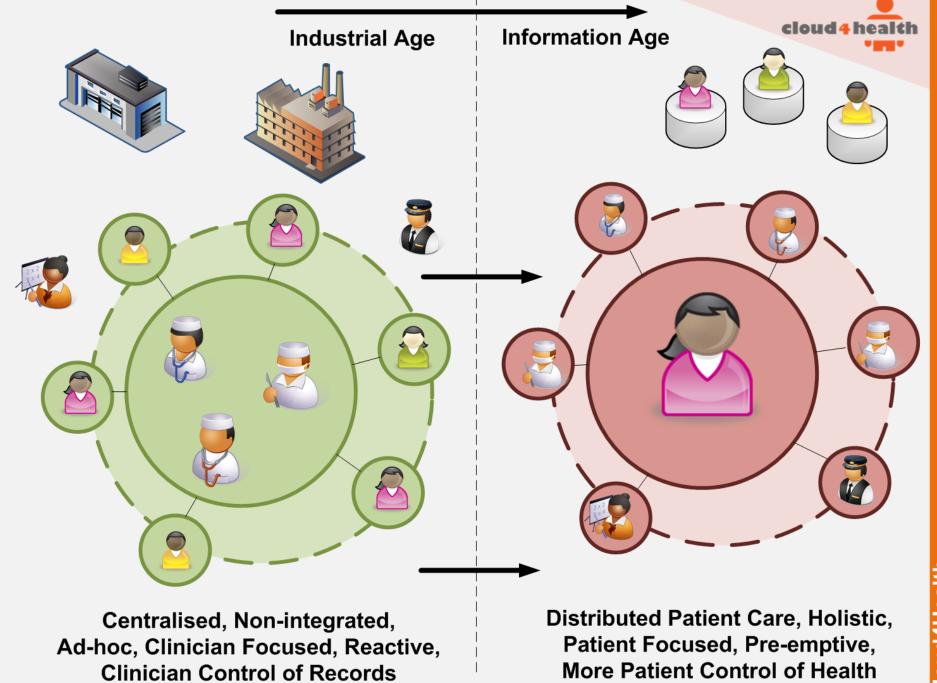
















- Healthcare Professional.
- Invited user



- GP.
- Invited user



- Care Subject
- 82 years old
- House bound
- COPD (Chronic Obstructive Pulmonary Disease)



• Invited user



- Site Creator
- Primary Carer







Assisted Living (Informal and Trust based)

Primary Health Care (Formal and role-oriented) - GP

Secondary Health Care (Formal and role-oriented)
- Hospitals/A&E







Technology Strategy Board

Driving Innovation



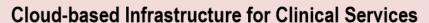
























HOIP

Trusted Services: Assisted Living





Delivering Assisted Living at Scale

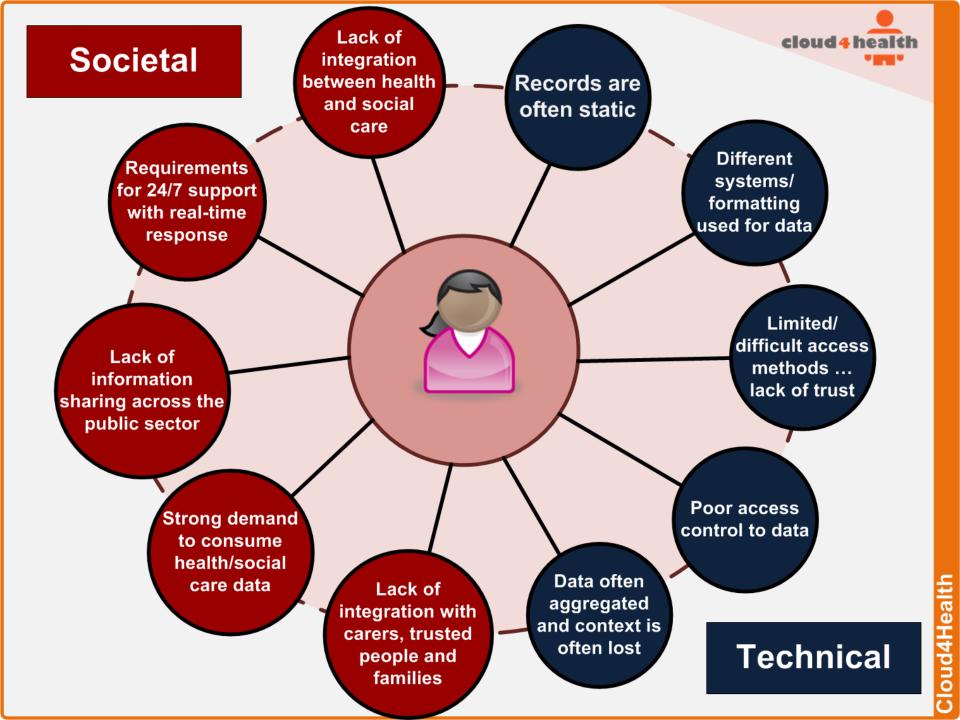


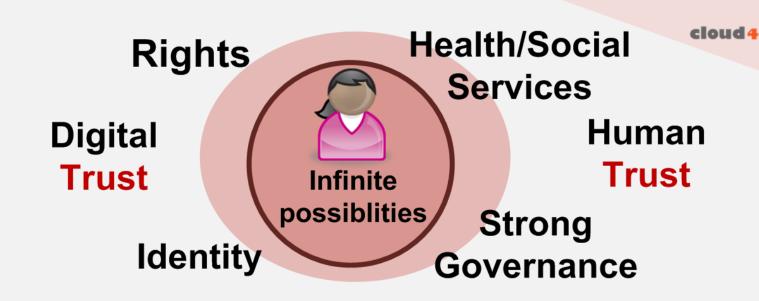


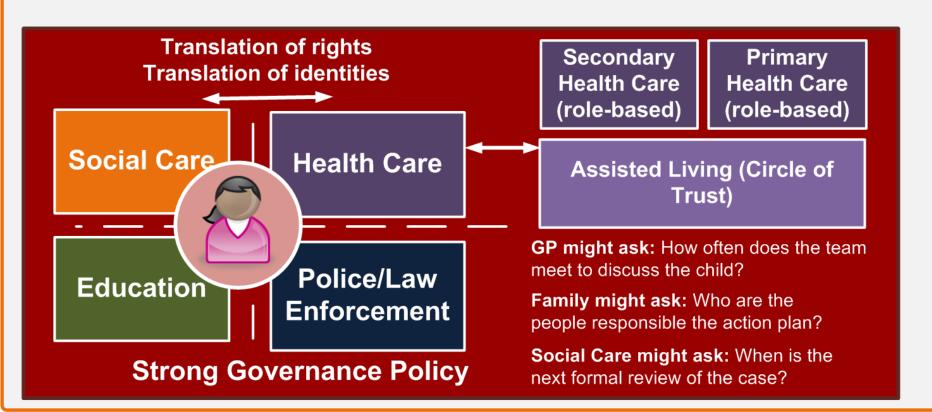


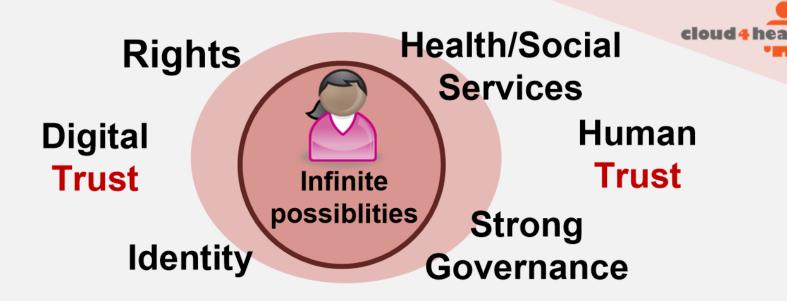


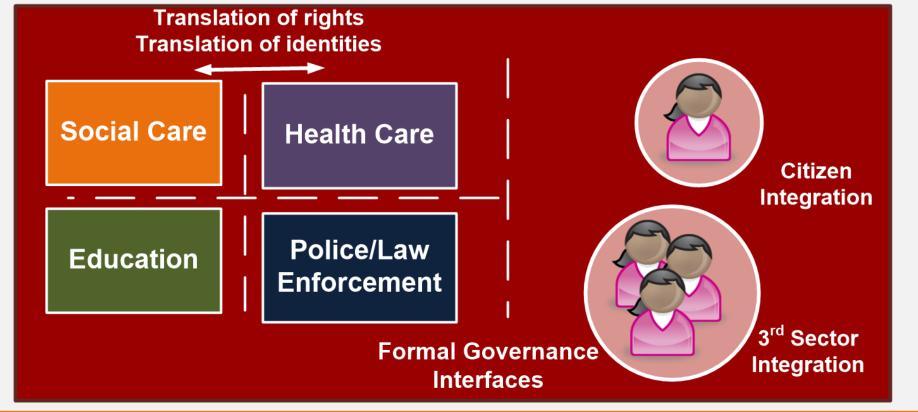


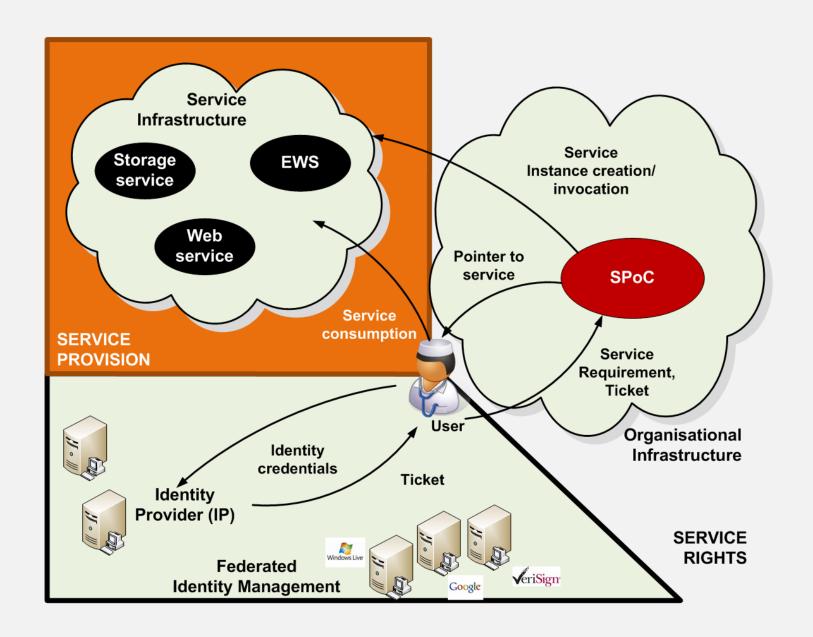












Towards a New Health and Social Care Information Sharing Architecture

Examples



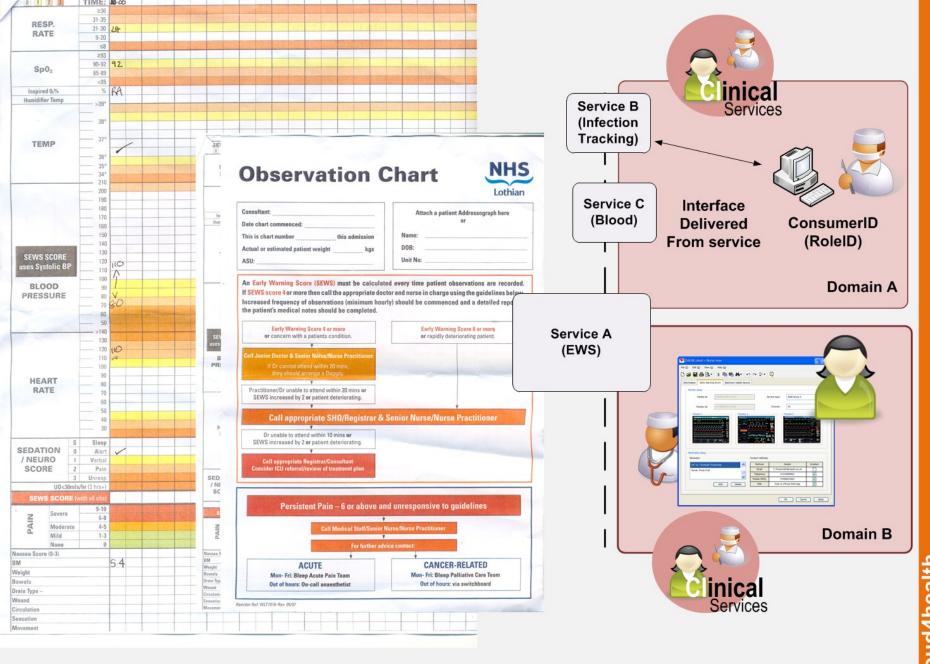








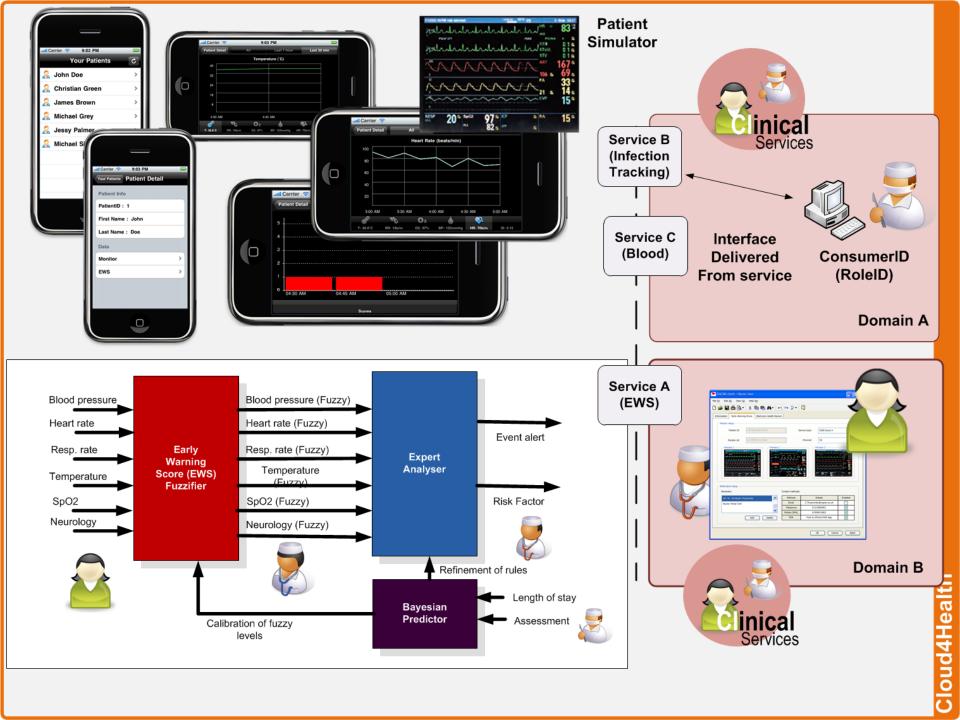




SEWS KEY

DATE: MIZ

Cloud4health



Towards a New Health and Social Care Information **Sharing Architecture**

Current and Future



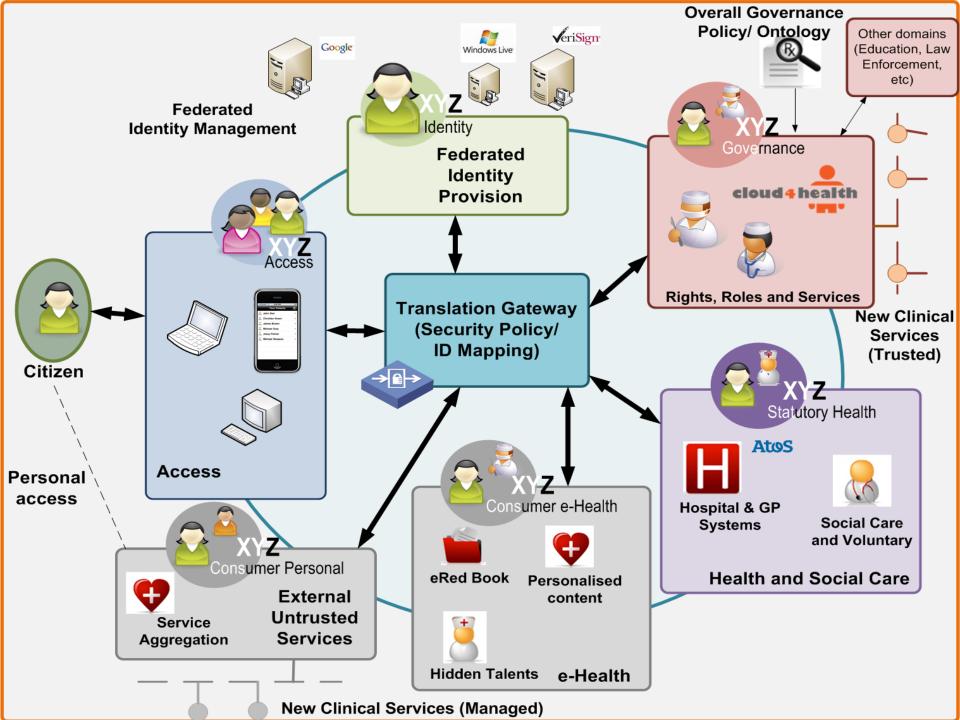


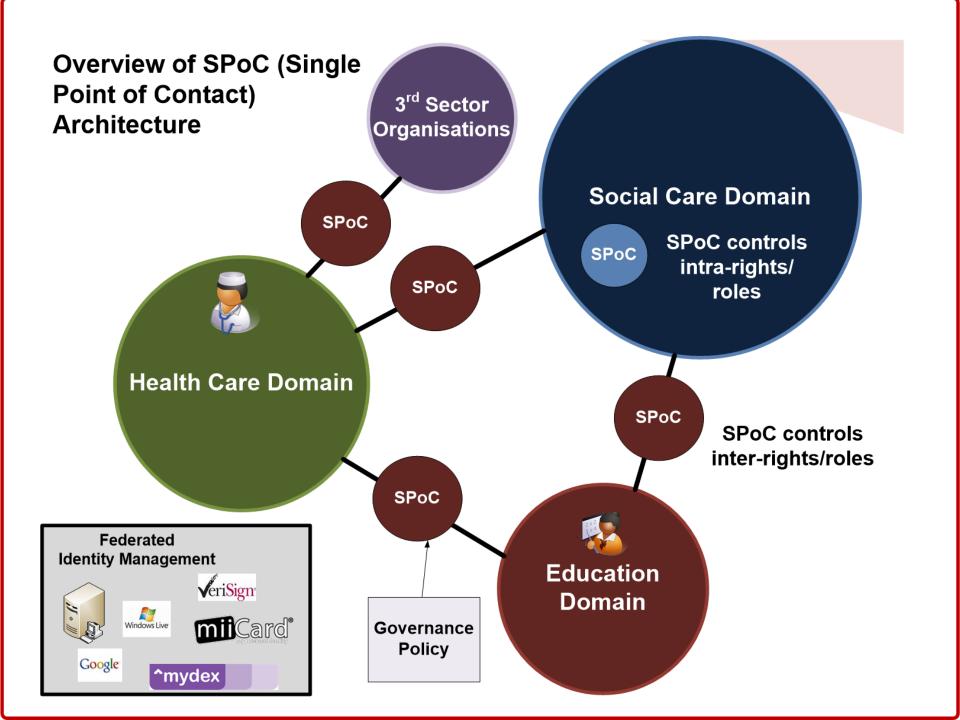




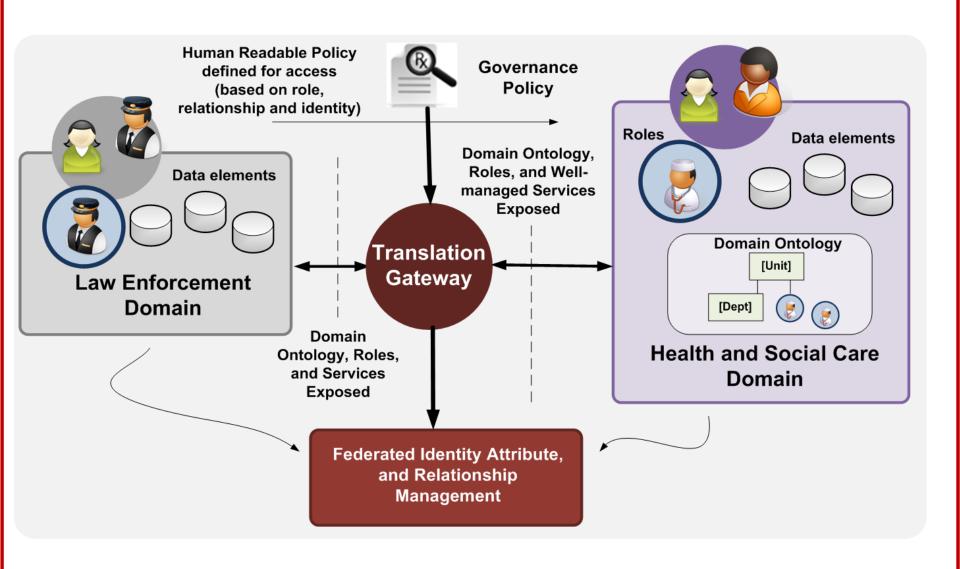


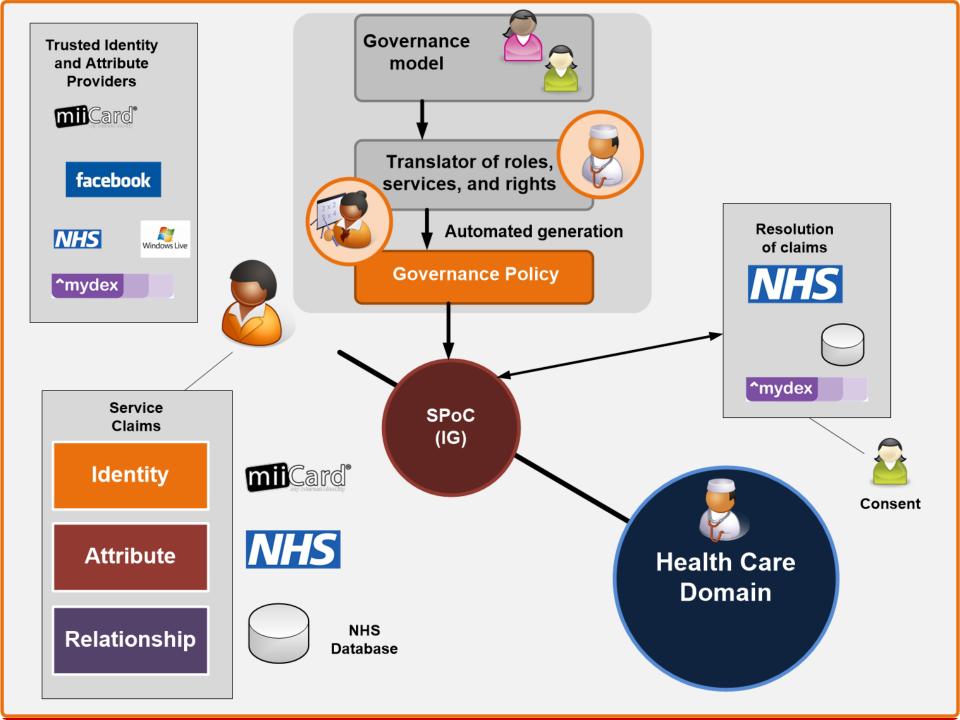


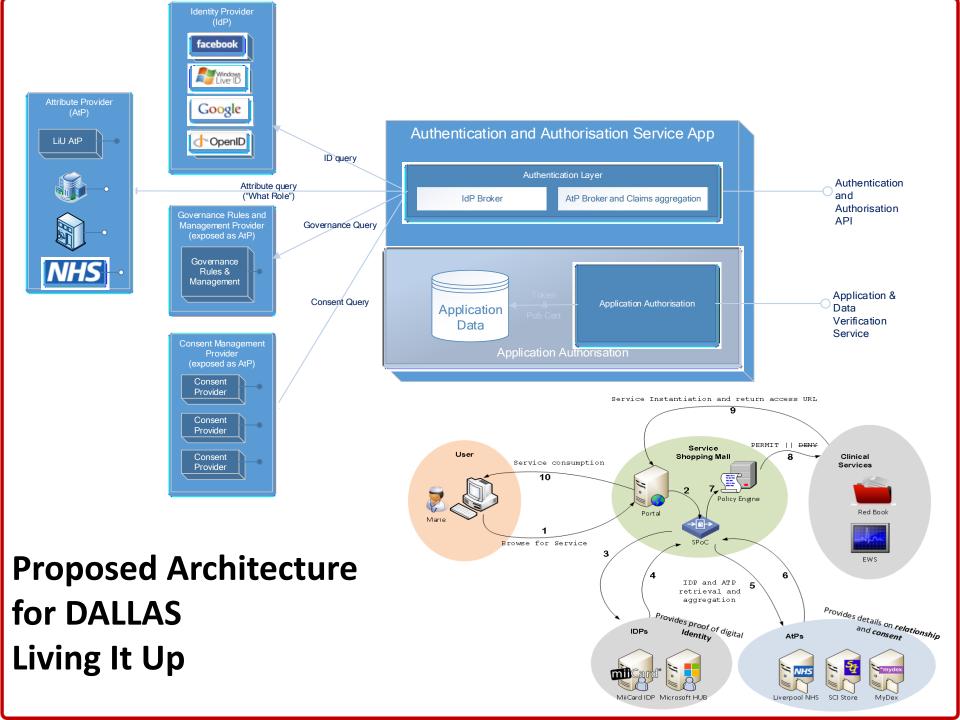




Application of Governance Policy







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miiCard - My Internet Identity' Card





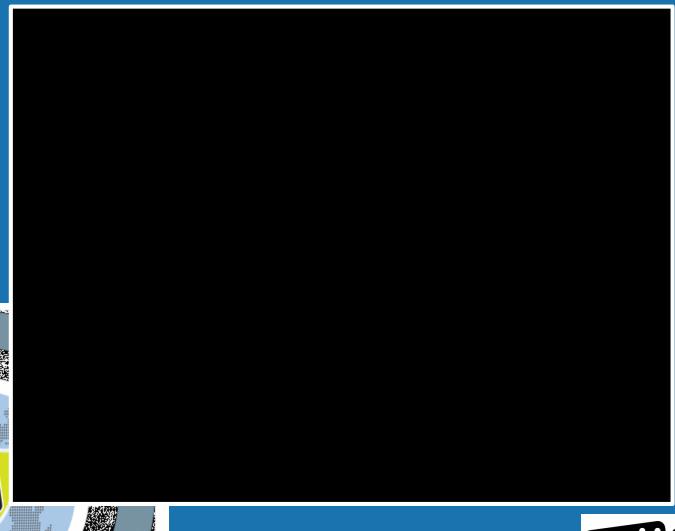








miiCard IN 2 MINUTES





PURELY ONLINE IN MINUTES

Set up your miiCard and **Verify** your identity one time set-up bank-level security protects your identity and information

Bring Your Own Identity (BYOID)



- Retail Banking
- Consumer Finance

- Online Gaming
- High Value eCommerce
- Online Dating, Recruitm







expert physical document check

bank account •



knowledge-based assessment

online passport =

online driving license =

credit reference =

mobile number -

social accounts =

email address •

LOW TRUST

LOA3 - ID Verification
("you are you")

LOA2 - Data Validation ("info about you")

LOA1 - IDP (Identity Provider)
(Authentication Services)



Data

Attribute Providers

miiCard Attributes

- Verified Name
- Verified Email
- Verified Mobile
- Financial Profile
- Reputational Trust Score etc

Services

Identity Providers

miiCard Secure Token Services

- oAuth
- OpenID etc

Trust

Identity Proofing miiCard Verification

Data Validation







IDaaS



Participating Site (Relying Party)

Towards a New Health and Social Care Information Sharing Architecture

Cloud-based Personal Health Records



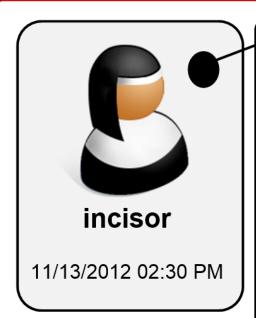












NHS patient records programme.

I was told that a "summary care record" would be created for me (unless I opted out) and that it would be accessible by me.

I decided to ask (via a phone number which was provided) whether and how I would be able to **view my children's records**.

I was told that this would **probably not be possible**, but perhaps would be **if I asked a GP to show me**.

This seems to me to say a lot about the attitude of the state and the NHS to their "customers".



eredbook

Your child's digital health record

Sitekit
Tuesday 4th December 2012

Dan Moulin – Project owner









About the eRedbook

FAQ

Contact Us

Health Professionals

The online version of your personal child health record



Organise health care

Plan ahead for all the important health reviews, immunisations and appointments with your health visitor or doctor.

Keep a secure record

Keep your own **personal notes** and photos of your child's **growth and development**.

Useful reminders

Note important health care **questions** to ask a health professional and **receive email reminders** for appointments.

Focus

- Clinical Engagement
- Ease of use
- Standards compliance
- Engaging



- Usability User Centred Design
- Clinical Engagement –
 Paediatrics, Health Visiting,
 Midwifery, GP, Parent
- Standard Compliance (RCPCH)

Health Vault*

- Secure, scalable and robust, health data storage
- Consumer mediated data exchange:
 - With clinicians
 - With friends and family
 - With devices

Some PHR Definitions

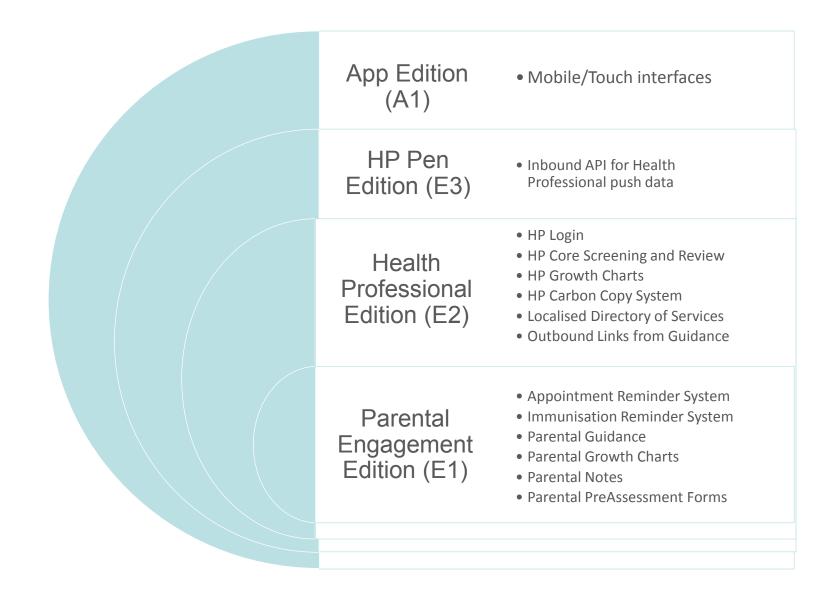
The Healthcare Information Management and Systems Society have defined a Personal Health Record as follows [2007]:

An electronic Personal Health Record ('PHR') is a universally accessible, layperson comprehensible, lifelong tool for managing relevant health information, promoting health maintenance and assisting with chronic disease management via an interactive, common data set of electronic health information and e-health tools. The PHR is owned, managed, and shared by the individual or his or her legal proxy(s) and must be secure to protect the privacy and confidentiality of the health information it contains. It is not a legal record unless so defined and is subject to various legal limitations.

The Medical Library Association/National Library of Medicine Joint Electronic Personal Health Record Task Force also examined the state of PHRs in an extensive review in 2010. After scrutinising various existing classifications, they provided the following working definition:

Electronic personal health record (PHR): a private, secure application through which an individual may access, manage, and share his or her health information. The **PHR** can include information that is entered by the consumer and/or data from other sources such as pharmacies, labs, and health care providers. The **PHR** may or may not include information from the electronic health record (**EHR**) that is maintained by the health care provider and is not synonymous with the **EHR**. **PHR** sponsors include vendors who may or may not charge a fee, health care organizations such as hospitals, health insurance companies, or employers.

eRedbook Editions







Health Record

Healthy Child Programme

Growth and Development

Guidance

Contacts

UPCOMING

Mark Johnson



Age: 18 months Born: 16/05/2011 Calendar 🛗

Growth Charts

Height

Weight

Head Circum.

78 cm

11 kg

45 cm

16/10/2012 16/09/2012 16/05/2012

Immunisations

Health Notes and Questions

Developmental Firsts

Appointments

Health Reviews

Add to Mark's eRedbook



RECENT

Add to health record



Add growth measurements

TODAY



Add a appointment

Next appointment



Monthly checkup Edit Delete

14:07

DEC 14:07

Venue: portree

Added by sarah johnson

Contacts

Family doctor

Dr. John Lewis 07700 900000

Health visitor team

Mr. Sam Maguel

07700 900099

Questions

+ Add a question

Is this a question? Yes it is Edit Delete

30 November 2012 Added by sarah johnson

This is a question

Developed a rash Edit Delete



Health Record

Healthy Child Programme

Growth and Development

Guidance

Contacts





Age: 27 days Born: 06/11/2012 Calendar 🛗

Growth Charts

Height

Weight

Head Circum.

Immunisations

Health Notes and Questions

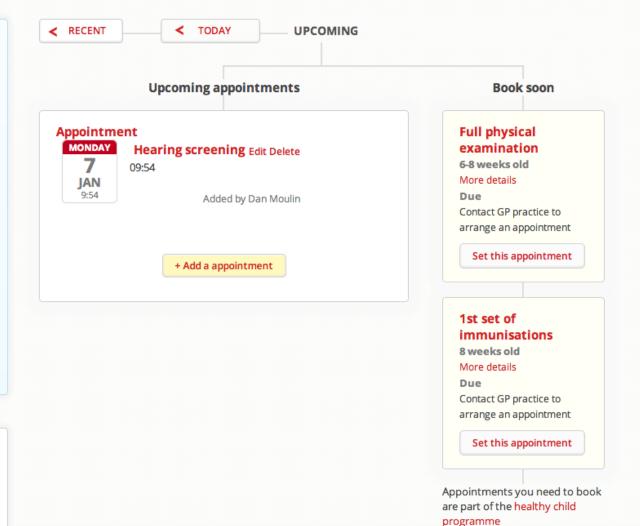
Developmental Firsts

Appointments

Health Reviews

Contacts

Use this space to save important clinical contacts. You have not yet added any contacts Add contacts





Health Record

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Mark Johnson



Age: 18 months Born: 16/05/2011 Calendar 🛗

Growth Charts

Height

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78 cm

11 kg

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Head

Circum.

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Dr. John Lewis

07700 900000

Health visitor team

Mr. Sam Maguel

07700 900099

Guidance for parents

NHS approved information sources

If you would like to read more about baby and child health guidance, the following websites contain Department of Health approved guidance and content:



Choices Child health 0-5 and Pregnancy and baby guides.



NHS Direct, 24 hour support and advice.

When to call the doctor

Small babies' illnesses can become very serious very quickly. You know your baby best. Don't wait too long if you are worried. Ask for help when you feel you need it.

A very ill baby may be unusually sleepy, have breathing difficulties, be much less active, take less than half the normal feed in the previous 24 hours, have less than 4 wet nappies in the previous 24 hours, feel hot when looking pale.

If you notice any of these contact your doctor at once and find out what to do next. If you cannot talk to a doctor quickly, then take your baby to the hospital or phone 999 for an ambulance. If your baby/child has a rash, see 'spots and rashes' and meningitis guidance information.

Child safety

Home safety 0-12 months Home safety 1-2 years Home safety 3 years

1.00

the car

Keeping your children safe in

Feeding your baby

0.00

Feeding your baby Information for breastfeeding mothers Breastfeeding **Bottle Feeding**

Healthcare

New baby review Can your baby hear? When to call the doctor Can your baby see? Looking after your child's



Health Record

Healthy Child Programme

Growth and Development

Guidance

Contacts

Felix Moulin



Age: 27 days Born: 06/11/2012 Calendar 🛗

Growth Charts

Height

Weight

Head Circum.

Immunisations

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Appointments

Health Reviews

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Growth and Development

When to measure growth

Normally your baby needs to be measured only as part of your routine appointments with a health professional.

Age	No more than
2 weeks to 6 months	Once a month
6-12 months	Once every 2 month
Over 12 months	Once every 3 month

Read more about the growth charts and measuring your baby

Developmental firsts

Babies want to explore the world around them. Your baby grows and learns faster in the first year than at any other time. There are many things that all babies and young children do, but not always at the same age or in the same order. You can use the eRedbook to record when your child does things for the first time.

Track Felix's development firsts

The growth charts

The charts in the eRedbook are a guide to how your child is growing. It compares your child's length and height with other children of the same age. It also shows how quickly your child is growing.

Read more about interpreting the growth charts

Further information about baby development

If you would like to read more about baby and child health guidance, in particular the development of your baby as he or she grows, the following NHS approved sources may be of interest:





Health Record

Healthy Child Programme

Growth and Development

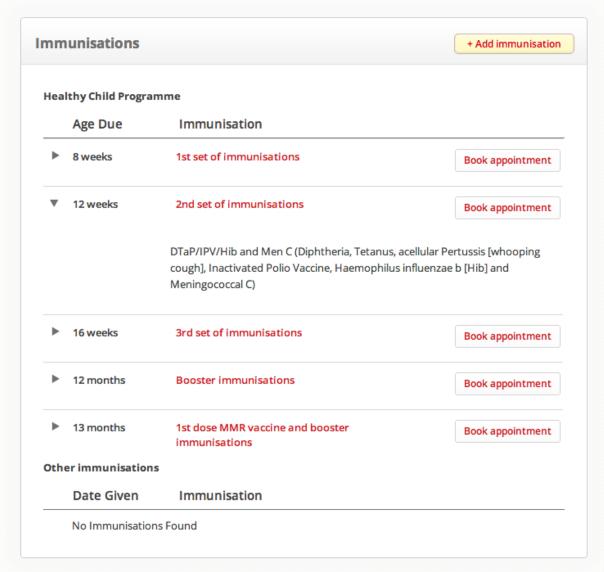
Guidance

Contacts



Contacts

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Questions

Towards a New Health and Social Care Information Sharing Architecture















Oh good because [...] doctors always look at me as if I am asking to look at the bloke's down the road when I ask to look at mine

It should be an absolute priority to see your own records whenever and wherever you want to

(11/13/2012 12:17 PM**)**



11/13/2012 08:45

Regarding the title of this piece considering how badly most NHS IT systems are designed, implemented and function it probably means that you log on and the correct page comes up three years later.

There is no money.
This is the new "Cones Hotline"

philclark60
11/13/2012 12:17 PM

Patients will view their NHS records online in three years

NHS patients will be given online access to their health records in the next three years under plans to be announced by the Government today.