

# Microsoft Cloud Computing Research Centre

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## Personal Data Stores

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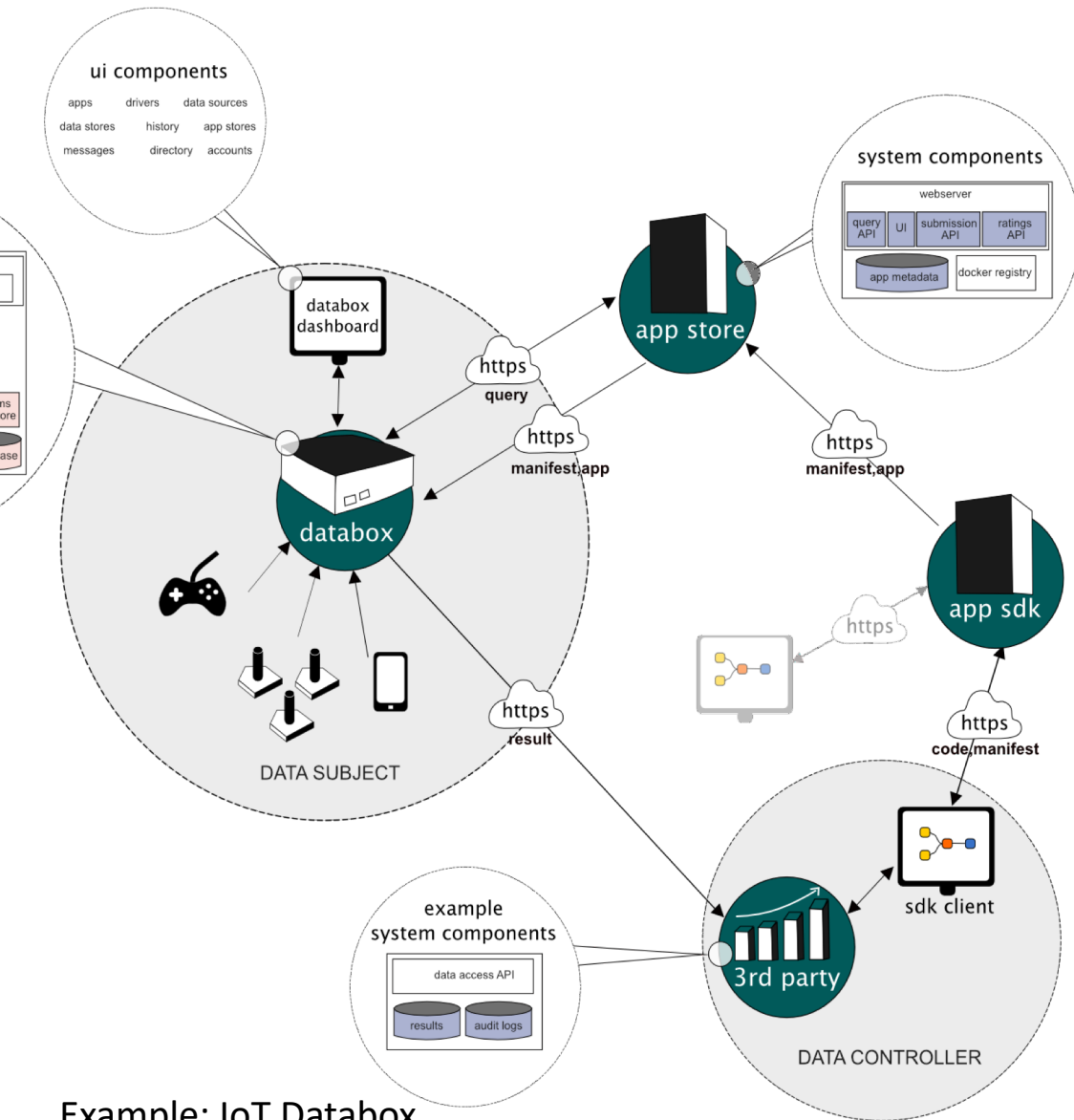
# Personal Data Stores

- Empowering users!
- Examples
- Exploratory phase

This morning:

- Some legal considerations on PDS's

# Personal Data Stores - What



Example: IoT Databox

**PDS: empower users**

Platform offers user a 'Personal Data Store'

Computing on a device

- PDS-hardware is owned, in possession of user (e.g. Databox)
- PDS virtual personal container accessible through user smartphone (e.g. HAT)

# Personal Data Stores – **How?**

## **PDS's allow for**

- Computing be brought to the data
- User to locally compute his personal data
- User to mediate over data in/out

## **Apps** run locally on the device

- Like on your phone, but with constraints
- Transfer information - only after user permission
- Screen apps before deployment
- Access based on contracts

**PDS envisage: user in control of everything**

# Personal Data Stores - **Purported benefits**

- 'User in control over processing of personal data'
- 'Contribute to better privacy protection'
- 'Better informed consent'
- 'Prevent loss of control over 'sensitive' data'
- 'PDS puts the principle of accountability into practice'

# Personal Data Stores – a few legal considerations

- Compliance, accountability and responsibility
- Multiple actors, varying degrees of autonomy
  - *who* is accountable for *what*?
  - assignments accountability & responsibility: challenging
  - + users are endowed with control
- Shift of control: *game changer* in assignments?
- Address properly to build trust in PDS's

# Personal data stores – **perspective of the user**

A few questions a potential user would ask him/herself ...

- What is meant by 'control'?
- What responsibility comes with control?
- What is necessary to exercise control? Knowledge, agency?

# Personal data stores –perspective of the user

Questions to a Platform ...

- Who checks and enforces contractual and legal compliance by apps?
- Solve legal principle of accountability in technology?
- Are my sensitive personal data properly protected?

# Personal data stores – perspective of the user

Questions to an **App-developer**

- What ethics are used for vetting the apps
- User control is dependent upon risk assessment in Apps

# Personal Data Stores **Key Take Aways**

Initiatives bringing control & power to users are laudable!

Compliance, accountability and responsibility necessary for building trust

- *Who* is, could or should be accountable - for *what*?
- What user control comes with a PDS?
- What is necessary for reliable, effective user control?
- What responsibility and/or accountability to a user?

With what ethics should apps be vetted?

Implications for users' rights (GDPR)

- Household exemption
- Exercise of data subjects' rights