Towards Security in Distributed Home System

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Databox: Background

- Data generated by us, about us, and around us.
Databox: Motivation

• Clear benefits to personal data collection, but...
• Scalability
• Privacy / legal issues
• Users’ lack of legibility, agency, negotiability
My Work
My Work

• Personal VPN for:
  – Remote user device access to Databox
  – Data sources
  – Secure data transmission

• Measurement
  – Impact of using VPN on user experience
  – An initial measurement of placing of services
Measurement

- Effect on user browsing experience
Measurement

• Choices of placement of services
Next Steps

• From current engineering work...
• Usability evaluation from HCI perspective
  – From lab controlled environment to in-situ deployment
• Service on resource-constrained hardware
  – Don’t expect running Databox on a powerful machine
Questions?

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Databox Project:
http://forum.databoxproject.uk