

# ***Cloud Computing: The Next Computing Paradigm?***

## ***Panel 4: Security, privacy, and accountability***

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## **Cloud computing is...**

- ... is not the Internet:
  - Internet services may or may not run on the cloud computing platforms
- ... is not the sole threat responsible for:
  - Privacy issues
  - Location information issues
  - Child protection issues
- ... not the first form of services-based outsourcing
- ... is not a monolithic phenomenon:
  - Infrastructure < > Platforms < > Software
  - Fabric < > Instance
  - Consumer < > Enterprise

## ***Cloud computing is an operating model...***

- ... Potentially more secure:
  - “Multi-tenancy is as secure as the most demanding client want it to be”
  - Centralization & Specialization => Security
  
- ... Potentially less secure:
  - Centralized points of vulnerability
  - Accessibility
  - Control / Auditing
  
- Trust will be crucial element of cloud computing success

## ***What is to be done?***

- Reconsider the perimeter-based approach to security / privacy:
  - Secure the data, not the perimeter
  - Enforce the policy around the data, not the enterprise or state boundaries
  
- Insist on standards-based portability:
  - Create hybrid private / public clouds
  - Promote competition based on quality of service, including trust

However:

- Avoid stifling the market by over-standardisation
  - Promote open source implementations of de facto / de jure standards
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- Insist on standardised SLAs and T&C:
    - For cross-subsidised services and per-use services alike

## ***Recommendation for policy makers***

- Trust between providers / customers in different jurisdictions is the key:
  - Legal regime differences are a barrier to adoption
  - National security policy perceived as bigger threat than cybercrime
  
- Work towards global user-centric privacy & data protection structures
  - Individuals own their data and have policy-based tools to manage it
  
- Address specific challenges posed by cloud computing manifestations
  
- Avoid cloud computing market fragmentation
  
- Do not abdicate the responsibility of cloud computing provision