

Rethinking the design of the Internet: The end to end arguments vs. the brave new world

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A paper review of M. Blumenthal and Clark, D. "Rethinking the design of the Internet: The end to end arguments vs. the brave new world." ACM Transactions on Internet Technology, 1(1), August 2001, pp. 70-109.

Paper Outline

- New Requirements (Use Cases)
- Technical Responses
- Non-technical Solutions
- Impact/Perspective

New Requirements

- Trust
- Anonymity
- End vs. Middle
- Forced communication
- Multiway communication

Technical Responses

- Two forms of end-to-end
 - Core of Network
 - Applications
- End node modification
- Firewalls/filters
- NAT
- Labels
- Trusted third parties
- Public key cryptography

Non-technical Solutions

- Law
- Social pressure
- Labeling

Impact/Perspective

- Players
- Trust
- Jurisdiction
- Users vs. controller wannabes
- Anonymity vs. accountability
- Privacy vs. network administration
- Public vs. private
- Common carriage (telecom)
- Steganography

Conclusions