







But!	
1. no QoS!	
2. no business model!	
3. where is security?	Copyright 2006 Scott Bradner









Internet Architecture

no regulated architecture or basic design no regulated interconnection requirements (in US) no registration/control of ISPs (so far)

thus

no consistent Internet architecture

(may be better from a security standpoint)

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What Did It Give Us

e2e Internet, and open computer operating systems, are *generative*

i.e., enable innovation by others

impact society by moving or eliminating control points

e.g., information that can "confuse citizens"

The Internet is a parent revolution

"The invention of the printing press is the greatest event in history. It is the mother of revolution." Victor Hugo



e2e
convinced that the e2e principle is important?
Google, Vonage, eBay, Skype and thousands of other companies are
telcos are but in a reverse way
and regulators are not sure
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FCC: CALEA Internet & interconnected VoIP providers subject to CALEA (wiretapping) law VoIP provider "*must necessarily use a router or other server*" thus is facilities-based logic in FCC Order & principles logically leads to a requirement that the FBI pre-approve applications something they requested may apply to private networks FCC asked for comment on application to higher ed



















Dad's Net your father's net was end-to-end your father's ISPs understood they were in the bit transport business your father's net was ignored by the carriers, regulators and governments your father's ISPs were in the ISP business your father's ISPs did not all try to sell for less than it cost them to provide service your father's net was not the underpinning of all telecommunications







