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Corporate Standards
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Internet 0
MIT – Sun collaboration

Desire to “network everything”
Internet design insight

Initial Internet end-to-end principle
“internetworking across unlike networks”
Internet 0 design insight

Adhere to Internet end-to-end principle
“interdevice internetworking of unlike devices”
Internet 0 packet design

Self timing impulses using 8N1 with Manchester encoding

UDP, TCP

IP

SLIP

ASCII

8N1

Δt

start 0 1 0 0 1 0 0 1 stop

“1”
Internet 0 packet

Not just a picture, it is a valid Internet packet
Waves of the Internet

Computers

Embedded Computers $10^{11}$

Things - $10^{14}$

Smart Dust

MEMS Devices

Thermostats

Switches

Milk Cartons

IP v4

IP v6

Transfer

Interact

Access

Compose

Assimilate

Integrate

IP Layer

FTP

Telnet

SMTP

RPC/XDR

HTTP

WAP

IIOP

HTTP

RPC/XDR

SMTP

RMI/IIOP

SOAP

LDA

UDDI

Identity

JINI

JXTA

The Future:

Embracing Disruption,
Changing how things work,
Innovation Happens Elsewhere

Client/Server

N-tier

Web Applications

Polyarchical

Fractal

Clients

Functions

Protocols

Organization

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Comments and Questions?
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