NAMING AND BINDING of NETWORK DESTINATIONS

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LAB. FOR COMP. SCI.
SERVICE

Printer

File Store

CLIENT
NODE

Alto

370

Apple
SERVICE

NODE

ATTACH POINT

PATH

NETWORK

Printer

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NEW BINDINGS

1

2

3
Example: Ethernet

Transceiver

"Address" → Interface

Node

Service
Example: Ethernet

"ADDRESS" -> INTERFACE

TRANSCIEVER

NODE

SERVICE

Policy #1

"ADDRESS" ≜ NAME OF INTERFACE

(WIRE INTO INTERFACE)
Example: ETHERNET

"ADDRESS" ➔ INTERFACE ➔ NODE ➔ SERVICE

Policy # 2:

"ADDRESS" ≜ NAME OF NODE

(Initialize from node)
Example: Ethernet

"Address" -> Interface
  -> Node
  -> Service

Policy #3:

"Address" = Name of Service

(initialized from node storage)
ARPANET EXAMPLE

MIT-MULTICS
ARPANET EXAMPLE

MIT-MULTICS

LOOKS LIKE NAME OF SERVICE
ARPANET EXAMPLE

Looks like-name of service

Used like-name of node
ARPANET EXAMPLE

MIT-MULTICS

Looks like name of service

Used like name of node

Implemented as name of attach point

MIT-MULTICS \in \{ \text{FORWARDING NODE 6, PORT 0} \}
CONCLUSION

4 KINDS OF OBJECTS

SERVICE
NODE
ATTACH POINT
PATH

3 KINDS OF BINDINGS

→ INSIGHT

→ EASE OF DISCUSSION