Information Centric Networks and Named Data Networking

Dan Massey
Colorado State University

NDN Proposes Two Simple Changes

ver	head. Ien	type of service		length
16-bit identifier			flgs	fragment offset
time to live		upper layer	Internet checksum	

32 bis source IP address

Delete the Source.

Named Data Networking does not have sources

Replace the Destination.
specify the desired content

Options (if any)

data
(variable length,
typically a TCP
or UDP segment)

Resulting NDN Packets

Content Name:

Identifies the data I want to receive

Selector: identifier publisher, etc

Nonce

Content Name: Identifies the data in this packet

Signature: Required for all packets

Signed Info: signer, lifetime, etc

Data

NDN Interest Forwarding

