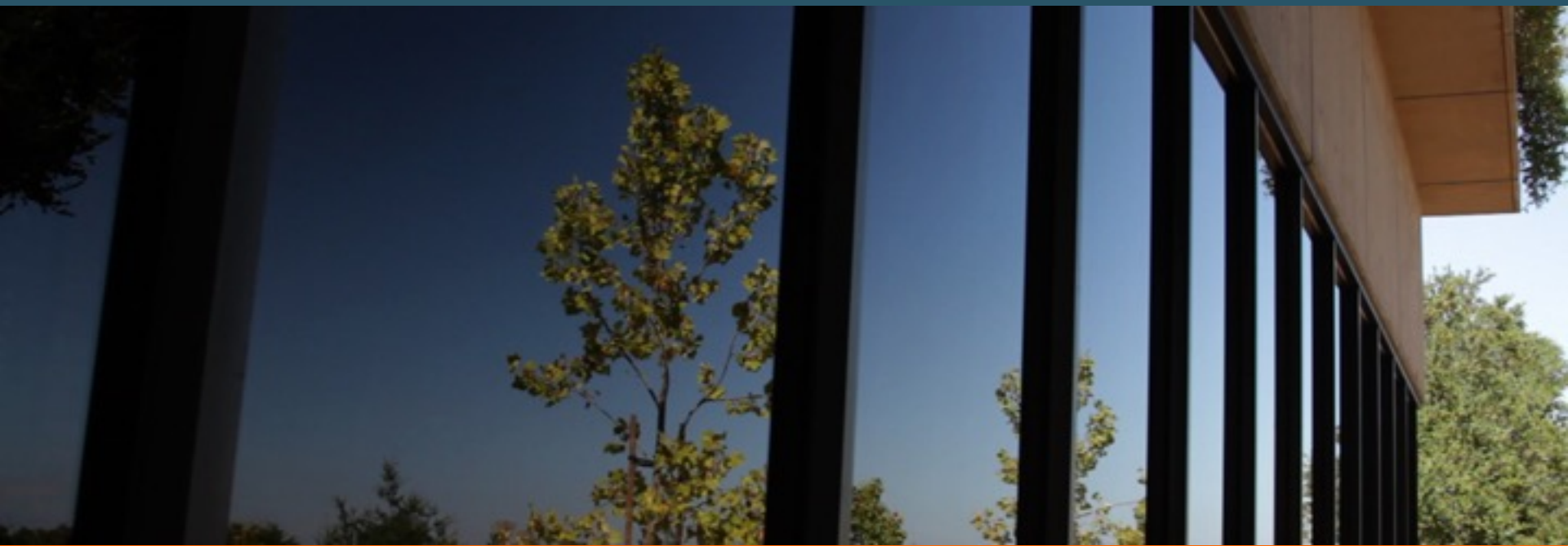


CCNx 1.0 Protocol Roadmap

Marc Mosko



HELLO

my name is

/load/of/bricks

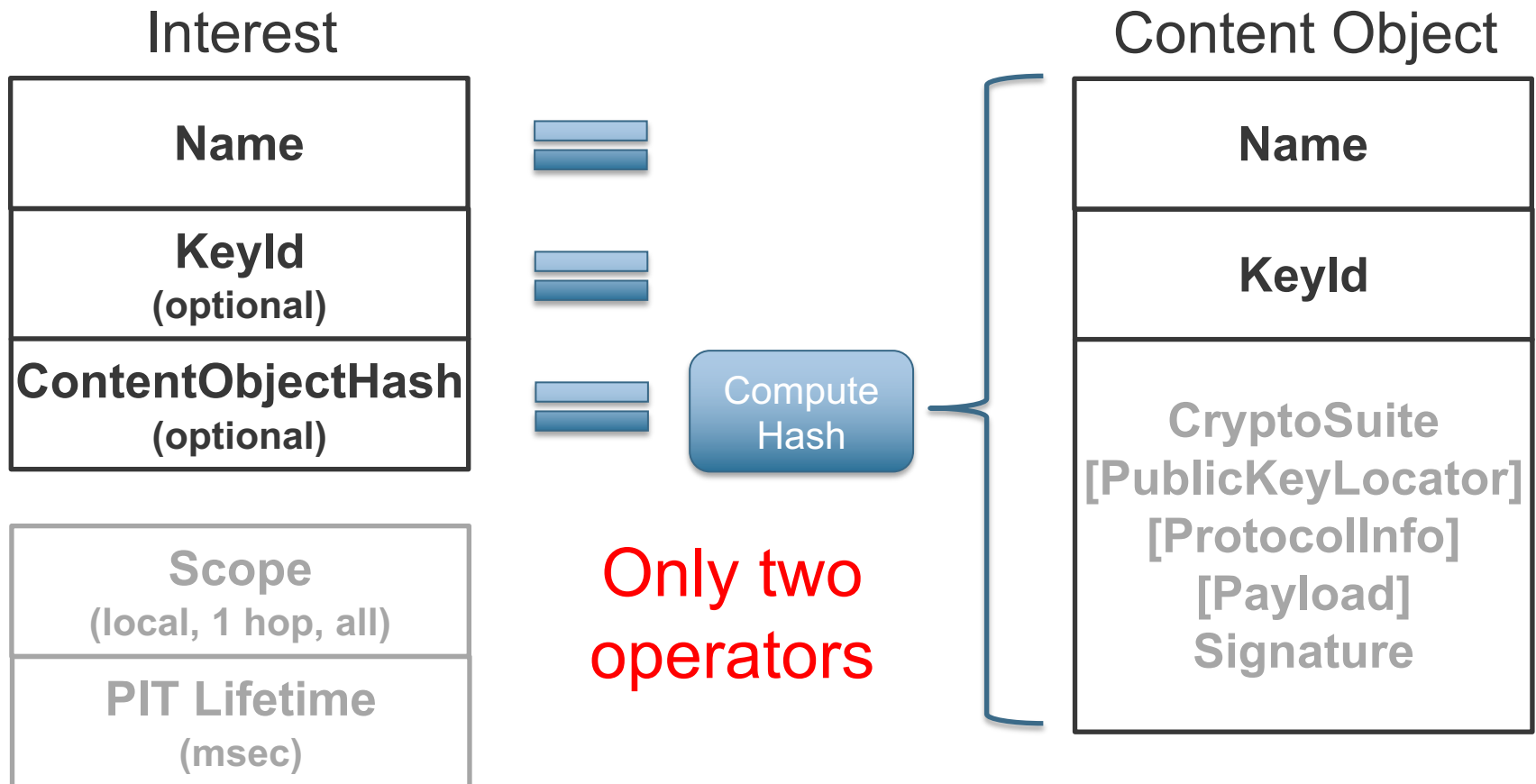


John Hancock

An Interest must exactly match a Content Object



Core Protocol Primitives



Core protocols Everywhere

(sensor, server, spaceship)

Forwarding Longest Prefix Match

No mandatory
Content Store
Suffix matching
Exclusions

Unbundle
Discovery
Segmentation
Versioning
Merkle signing



Excludes

MinSuffixComponents

ChildSelector

MaxSuffixComponents

FinalBlockId

Timestamp

Witness

Nonce

Interest <- prefixOf(Object)

Selector Based Discovery

Excludes

MinSuffix

MaxSuffix

ChildSelector

prefixOf matching

Protocols Built Over Core

Segmentation Protocol

EndSegment

Segment= (name label)

Nonce packet header

Nonce

HopLimit packet header

**Hop-based loop
prevention**

Labeled URIs

TimeVersion

SerialVersion

Segmentation

**Peer-to-Peer
Discovery**

**Sync Based
Discovery**

**Directory Based
Discovery**

**Selector
Discovery**

Core Protocol
Equals, ComputeHash

Hash Forwarding

Fragmentation

TLV Wire Format

Documents

1. CCNx 1.0 Protocol Specification Roadmap
2. CCNx Semantics
3. TLV Packet Format
4. CCNx Messages in TLV Format
5. Labeled Segment URIs
6. Labeled Content Information URIs for CCNx
7. CCNx Content Object Caching
8. CCNx End-to-end Fragmentation
9. CCNx Content Object Segmentation
10. CCNx Publisher Clock Time Versioning
11. CCNx Publisher Serial Versioning
12. CCNx Selector Based Discovery
13. CCNx Hash Forwarding