

A Vocabulary of Path Properties

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Terminology (1)

Node: Processes **packets**
(physical or virtual)

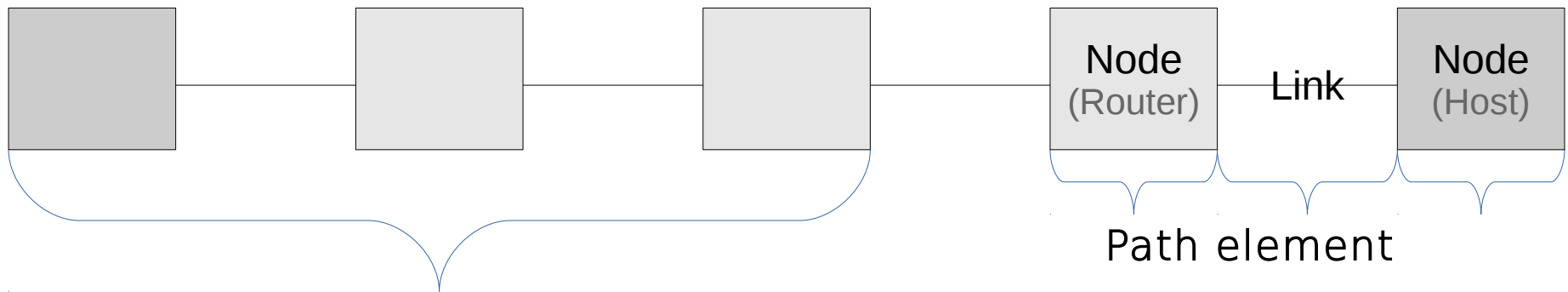
Host: ... explicitly addressed to itself

Router: ... not explicitly addressed to itself

Link: Connects two or more **nodes**, enables to exchange **packets**.
(physical or virtual)



Terminology (2)



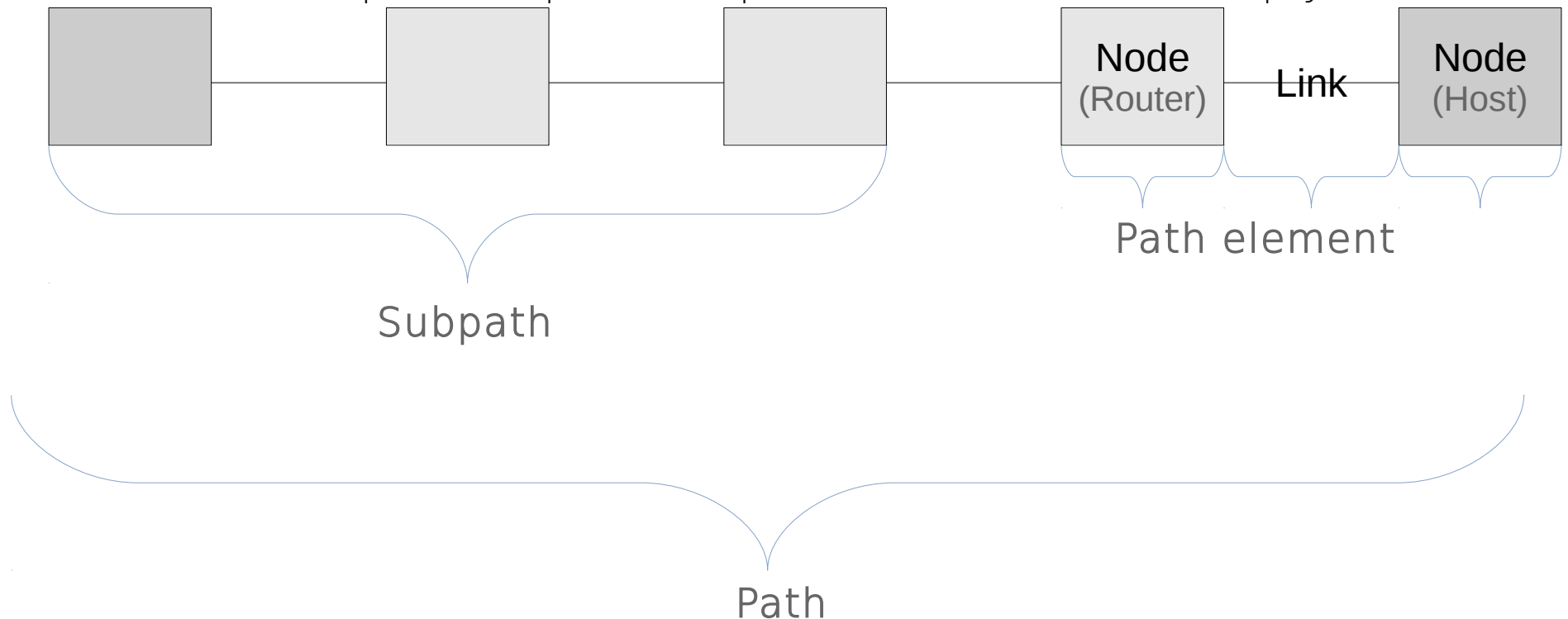
Subpath: Sequence of adjacent **path elements**
Alternates between **nodes** and **links**
Starts and ends with **node**

Path: ... starts and ends with **host**

Terminology (3)

Flow: One or more **packets**
Traverse the **same subpath or path**

Property: Trait of **path element** or **sequence of path elements**
or trait of a **flow** with respect to one or a sequence of path elements
(aggregated, measured, estimated)
→ Tuple of sequence of path elements, flow or empty set, name, value



Path Properties (examples)

- Domain Properties
 - Access Technology (path element + flow)
- Backbone Properties
 - Network function (node)
 - Transport Protocols available (path or subpath)
- Dynamic Properties
 - Maximum Data Rate (link, subpath, or path)
 - Latency (packet + subpath)

Questions

- Terms clear and consistent?
- Adoption?