

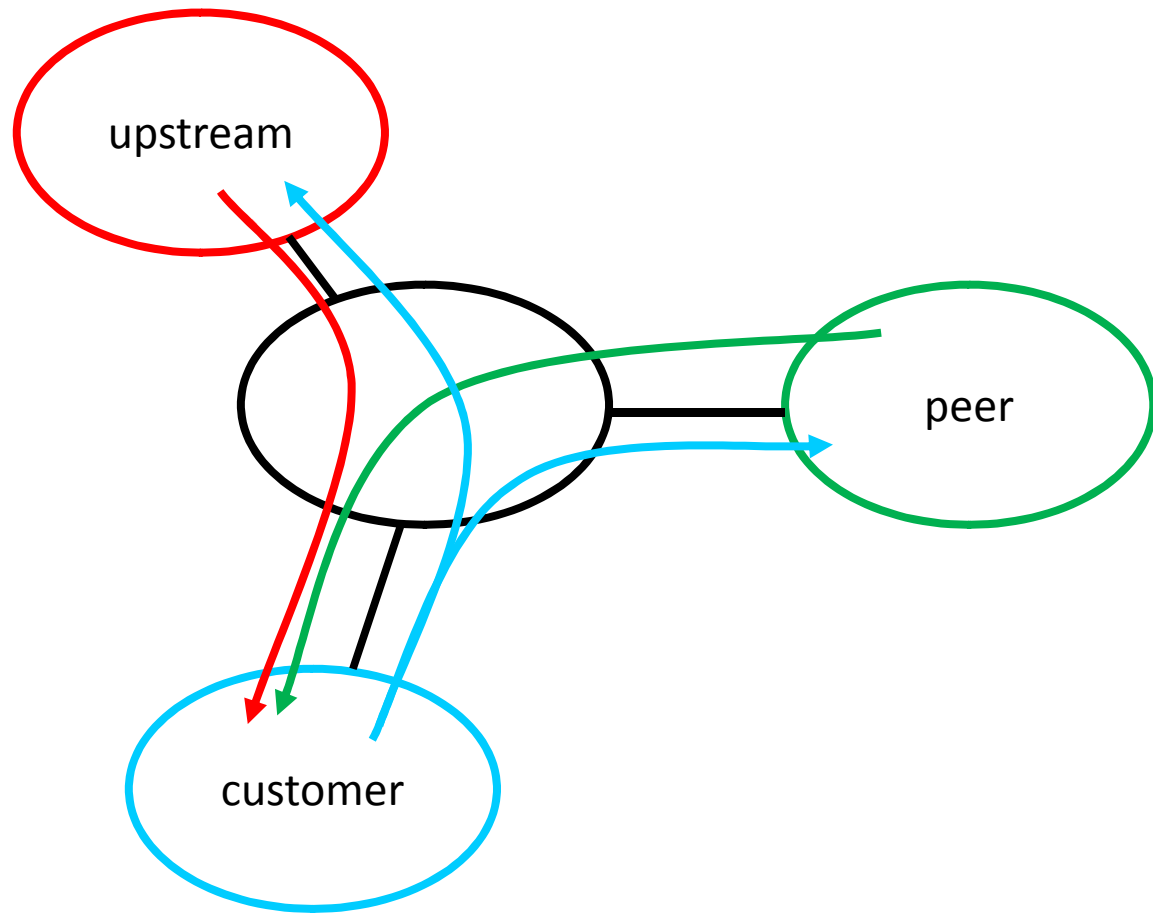
# what makes our policy messy

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# it's simple at the first stage

- customer
- peer
- upstream



# clueless operation

- cut & past a configuration from others
- forget to normalize a policy after failure/install

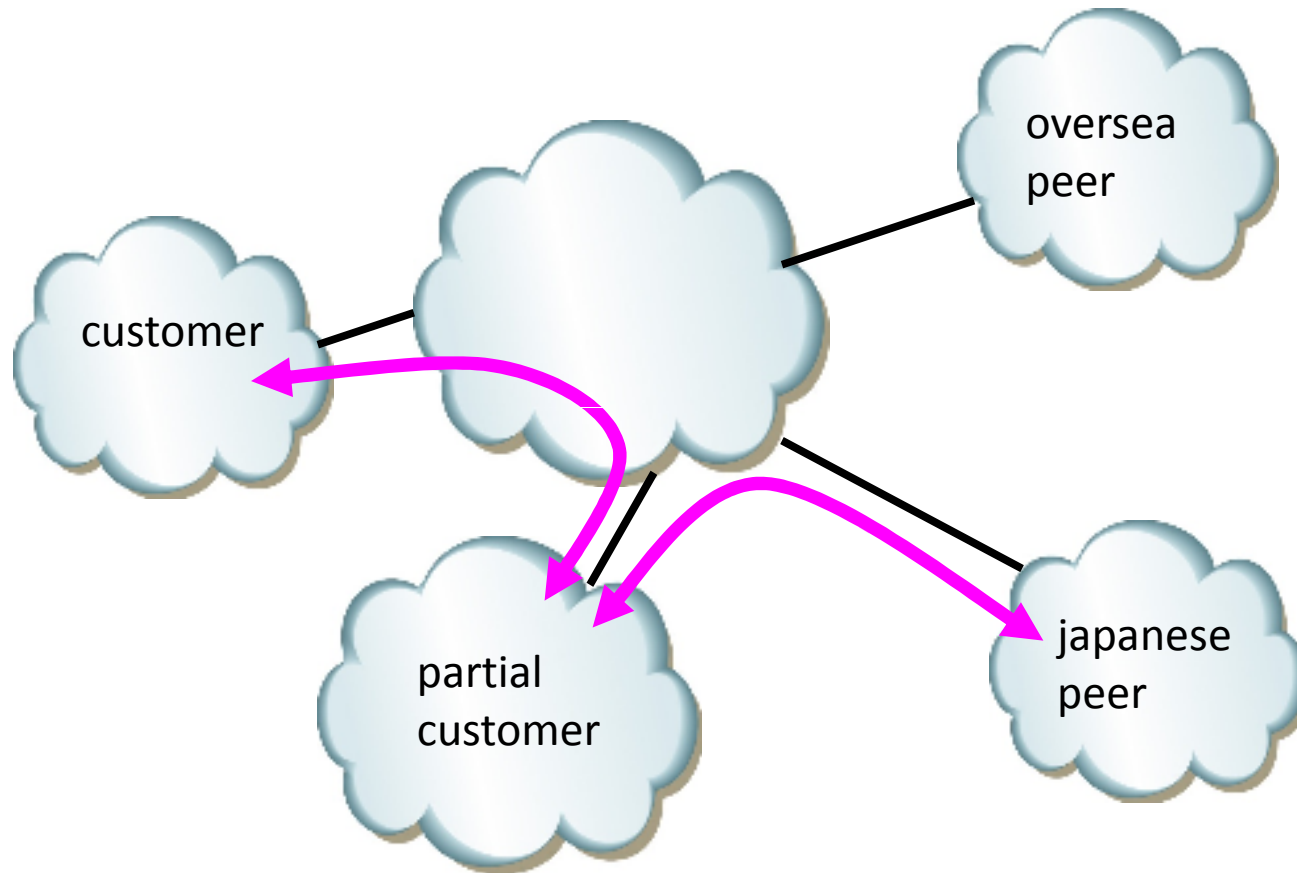
# backup design

- request 1.
  - enough bandwidth even in case of failures
- request 2.
  - keep the traffic regional
    - not to reroute too much
- request 3.
  - with existing cables/interfaces

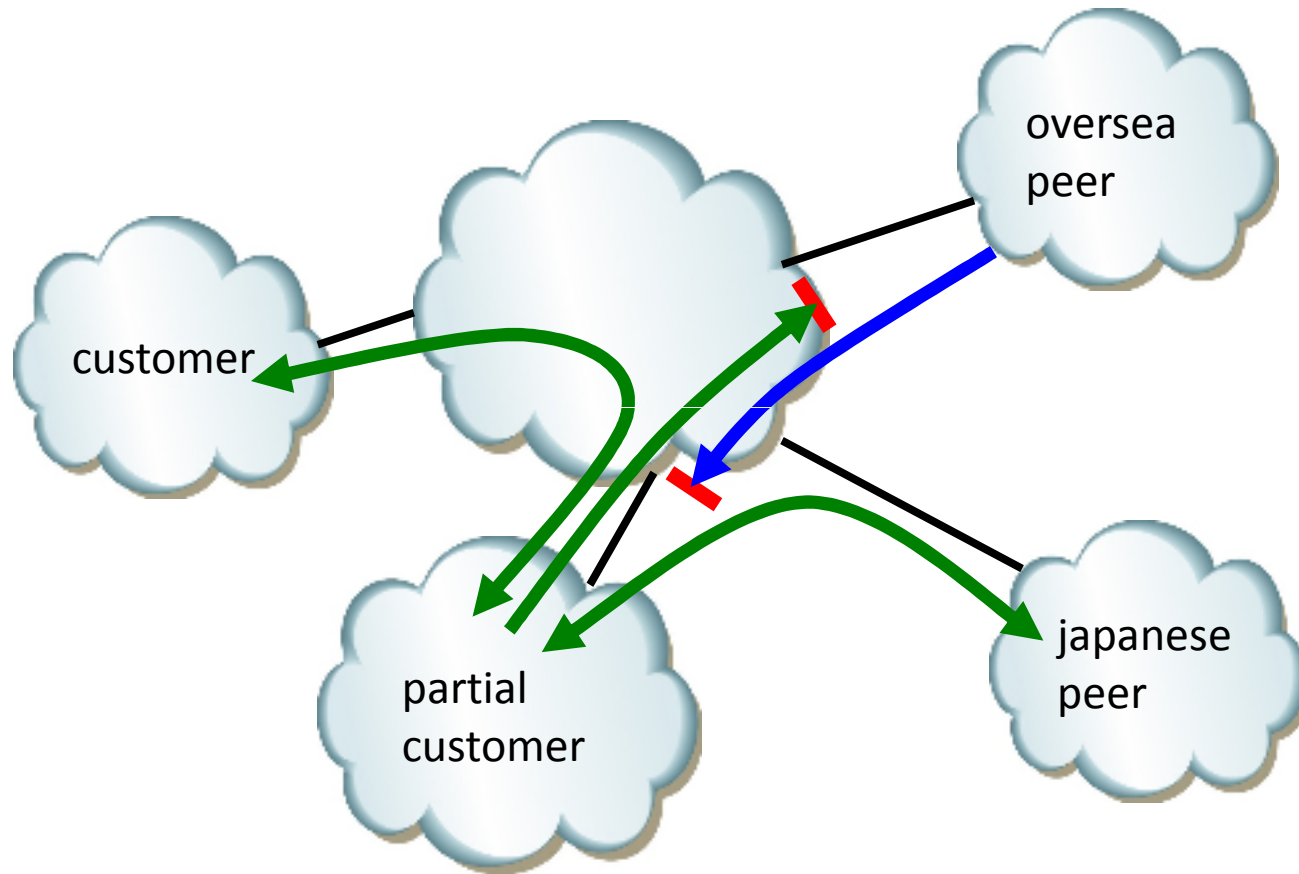
# incremental ad-hoc routing

- for traffic engineering
  - take a time to install new routers/cables
- to meet customers' request
  - partial/regional transit

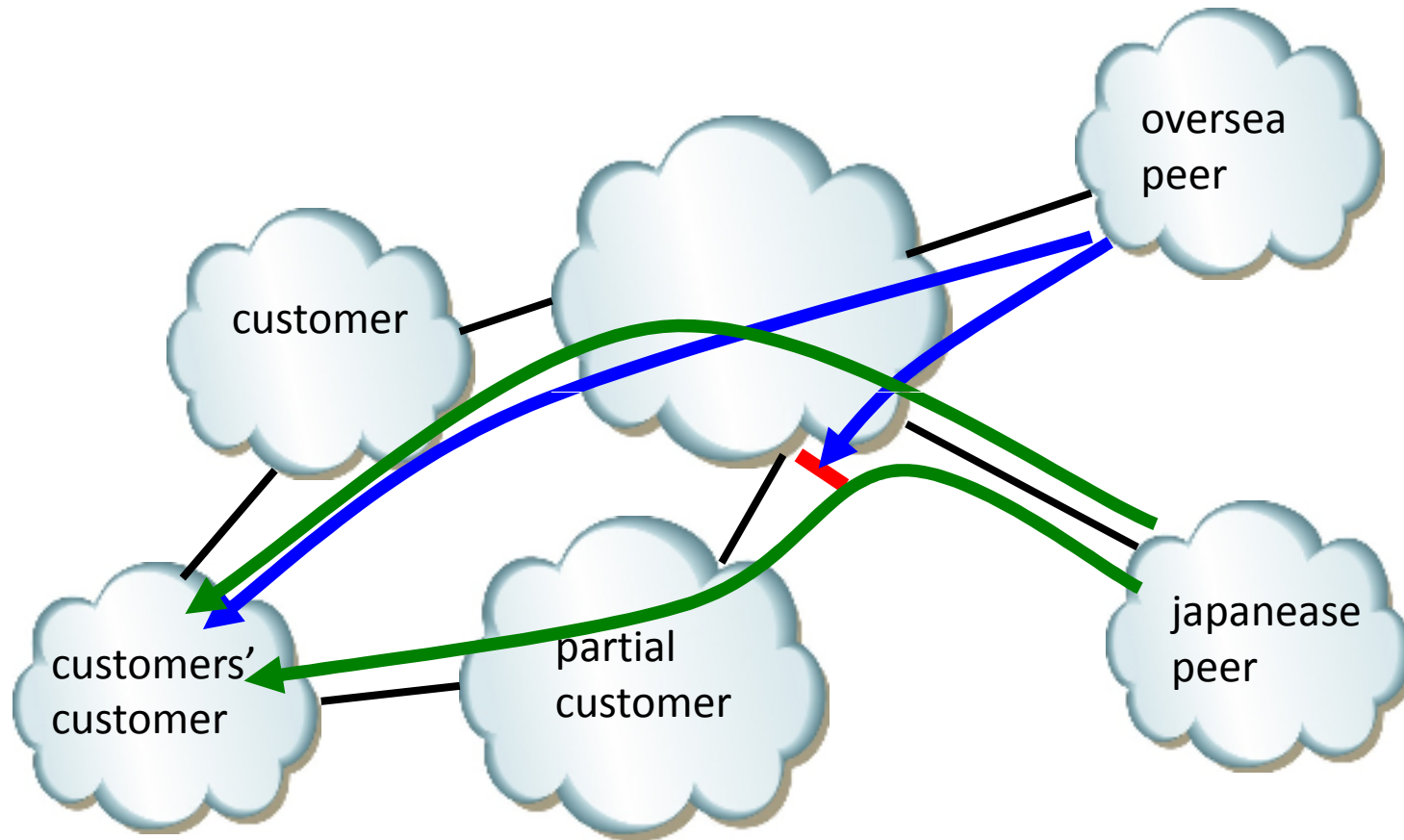
# partial transit



# partial transit: routing propagation



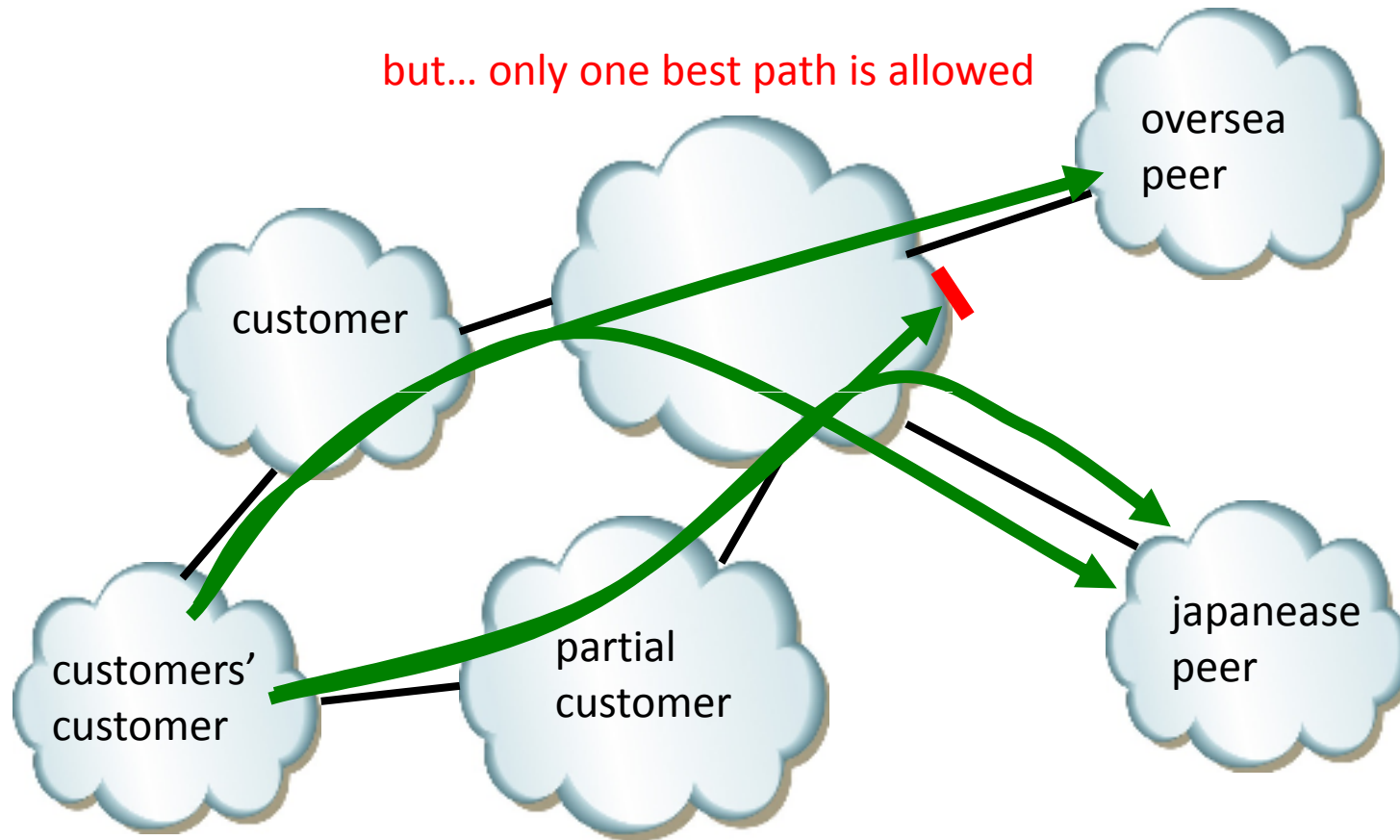
# customers' customer



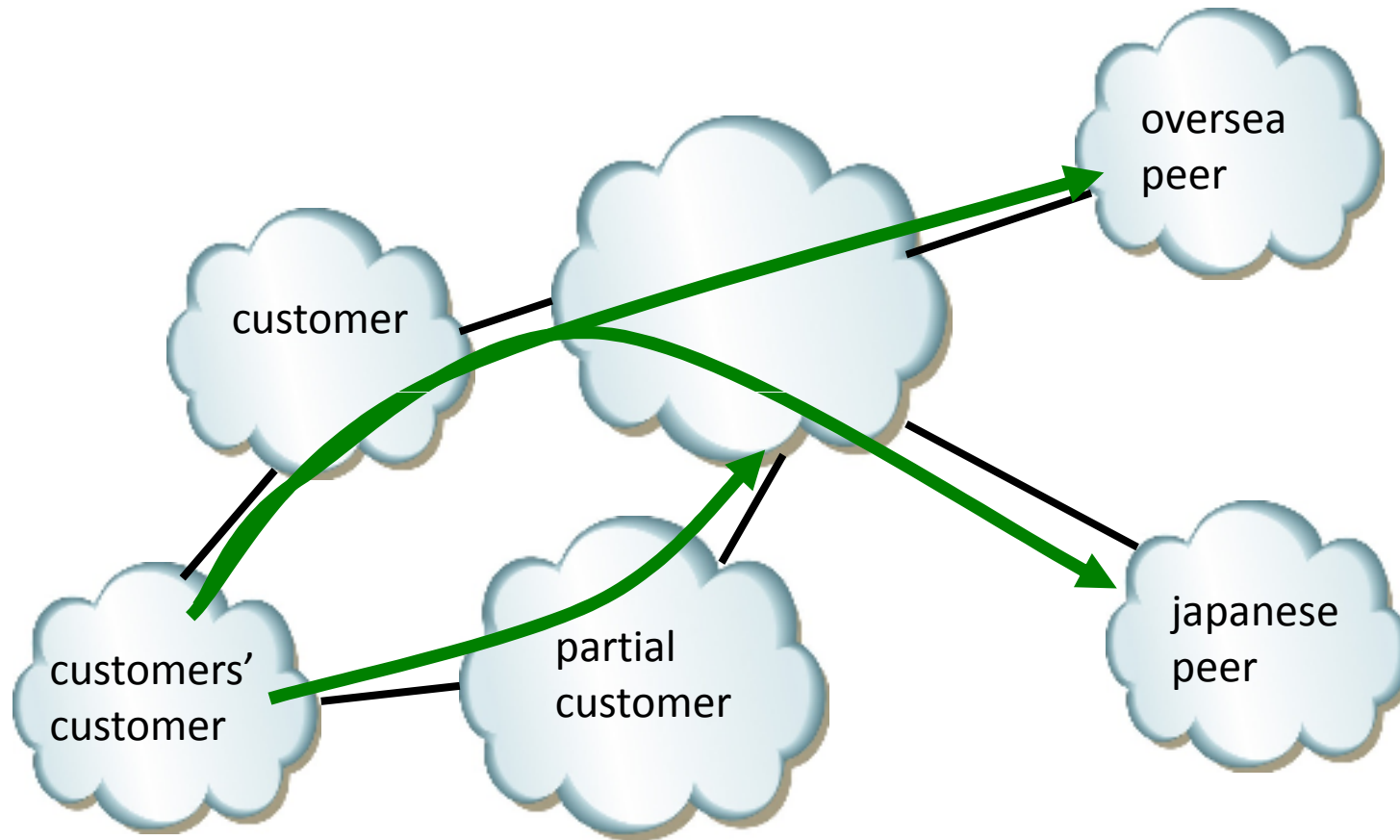


# announcement from the customers' customer

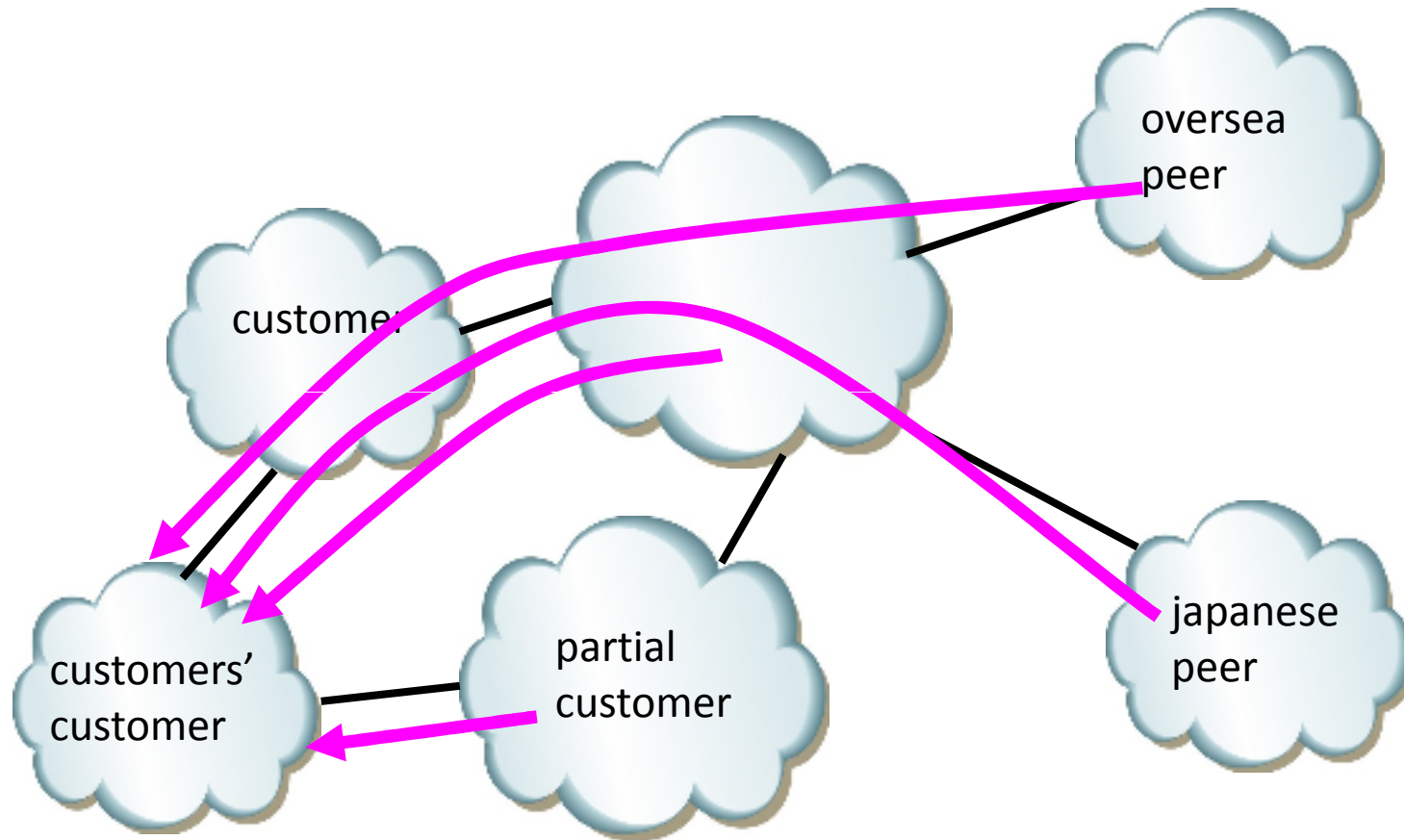
but... only one best path is allowed



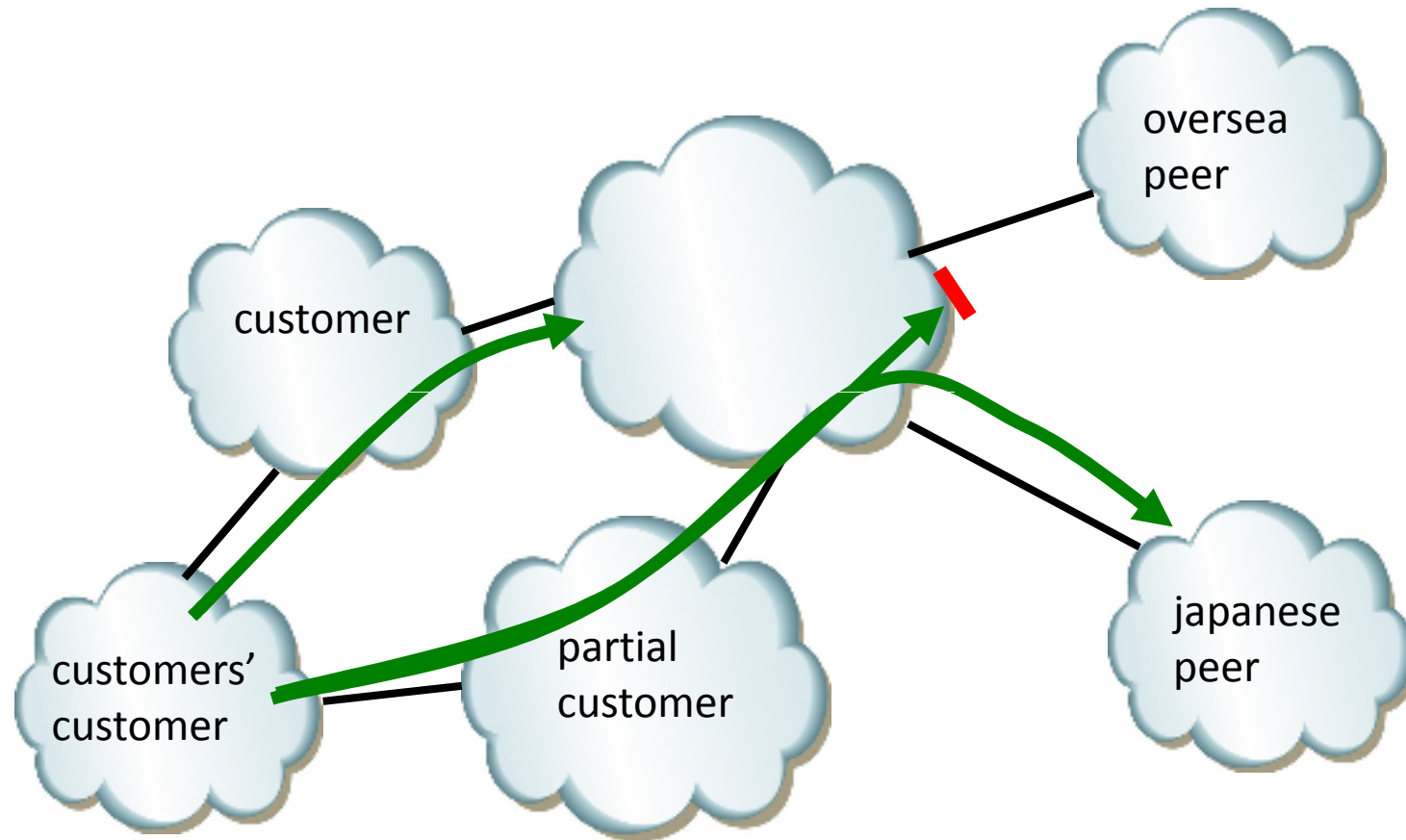
# expected: routing



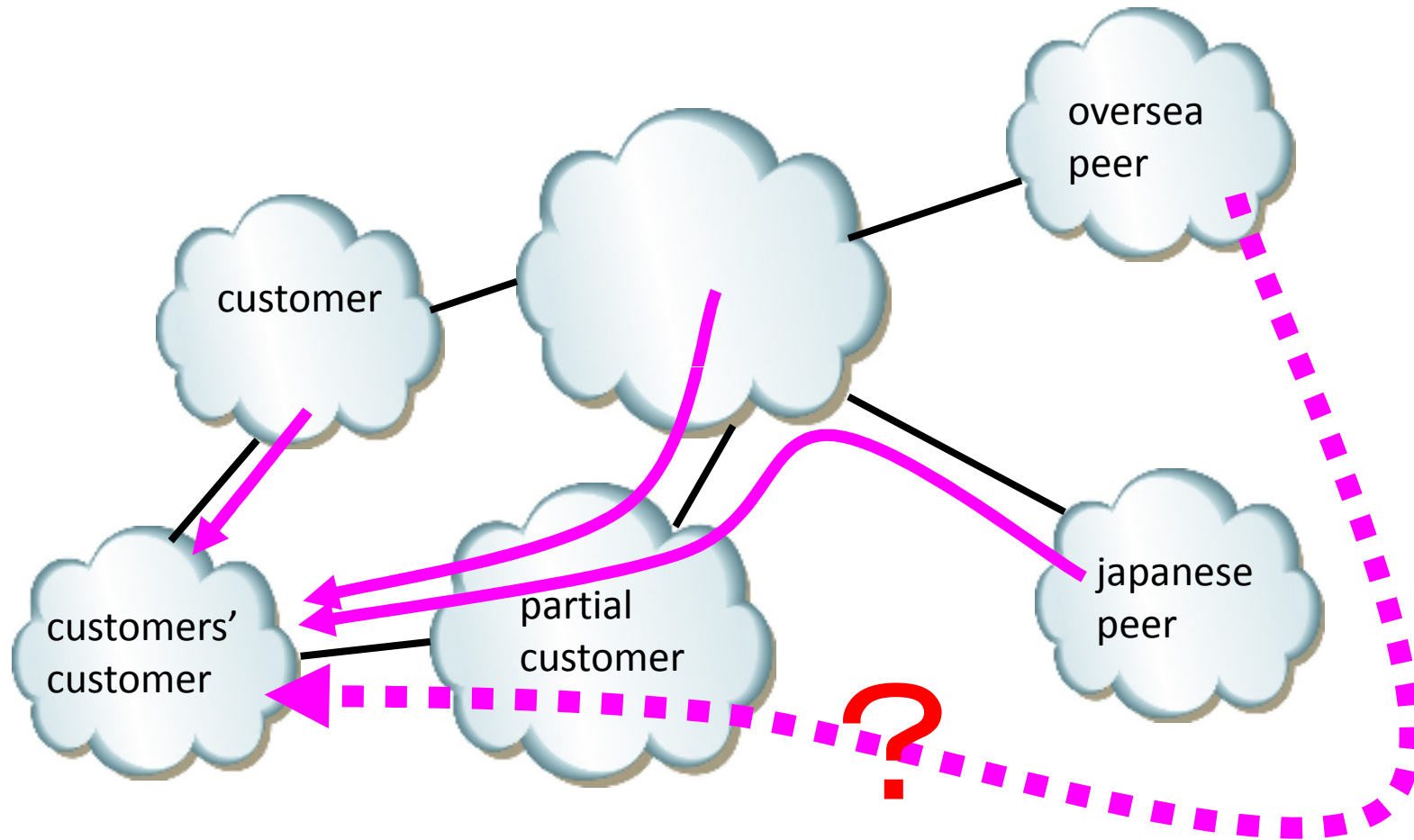
# expected: traffic



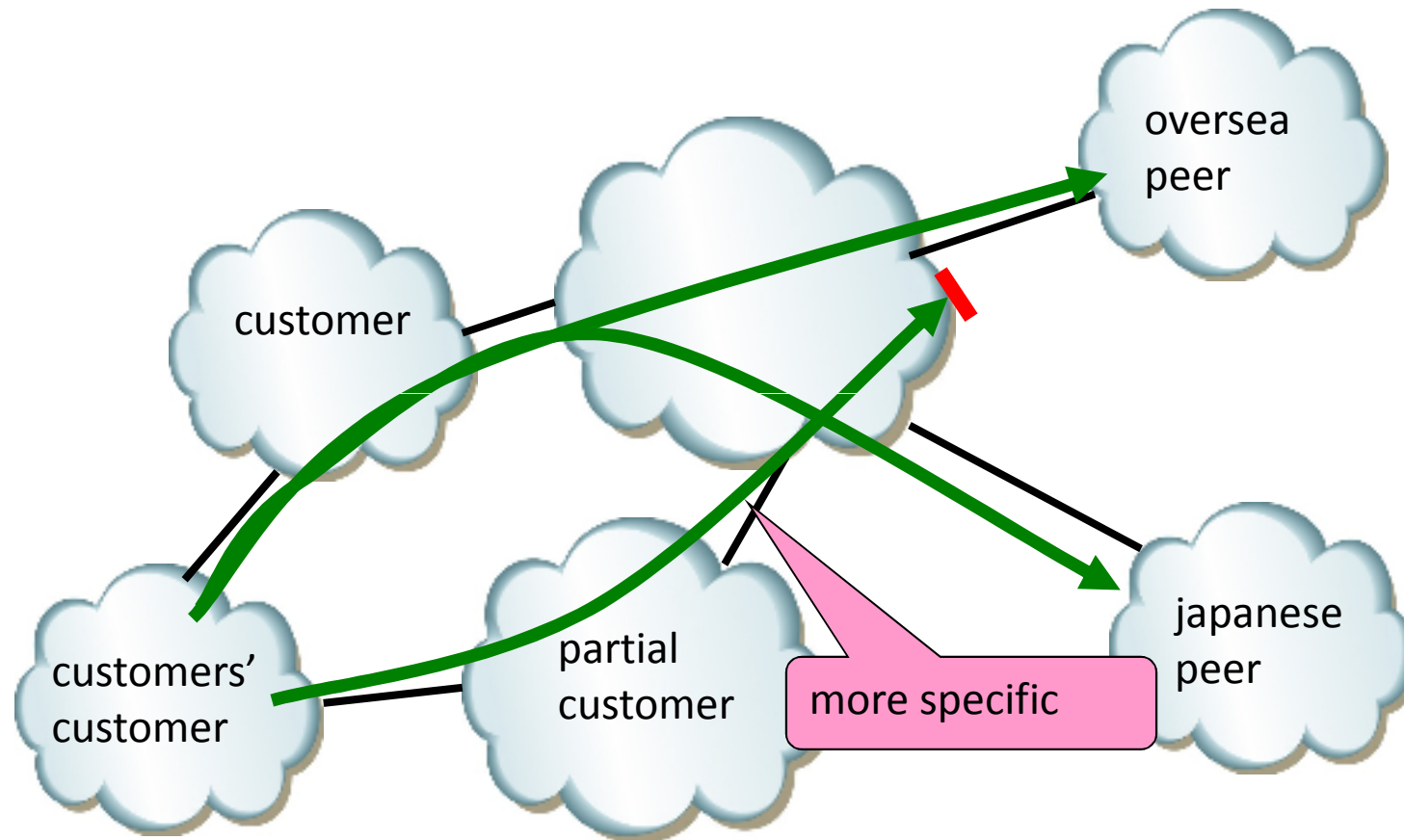
# un-intended: routing



# un-intended: traffic



# more specifics: routing



# more specifics: traffic

