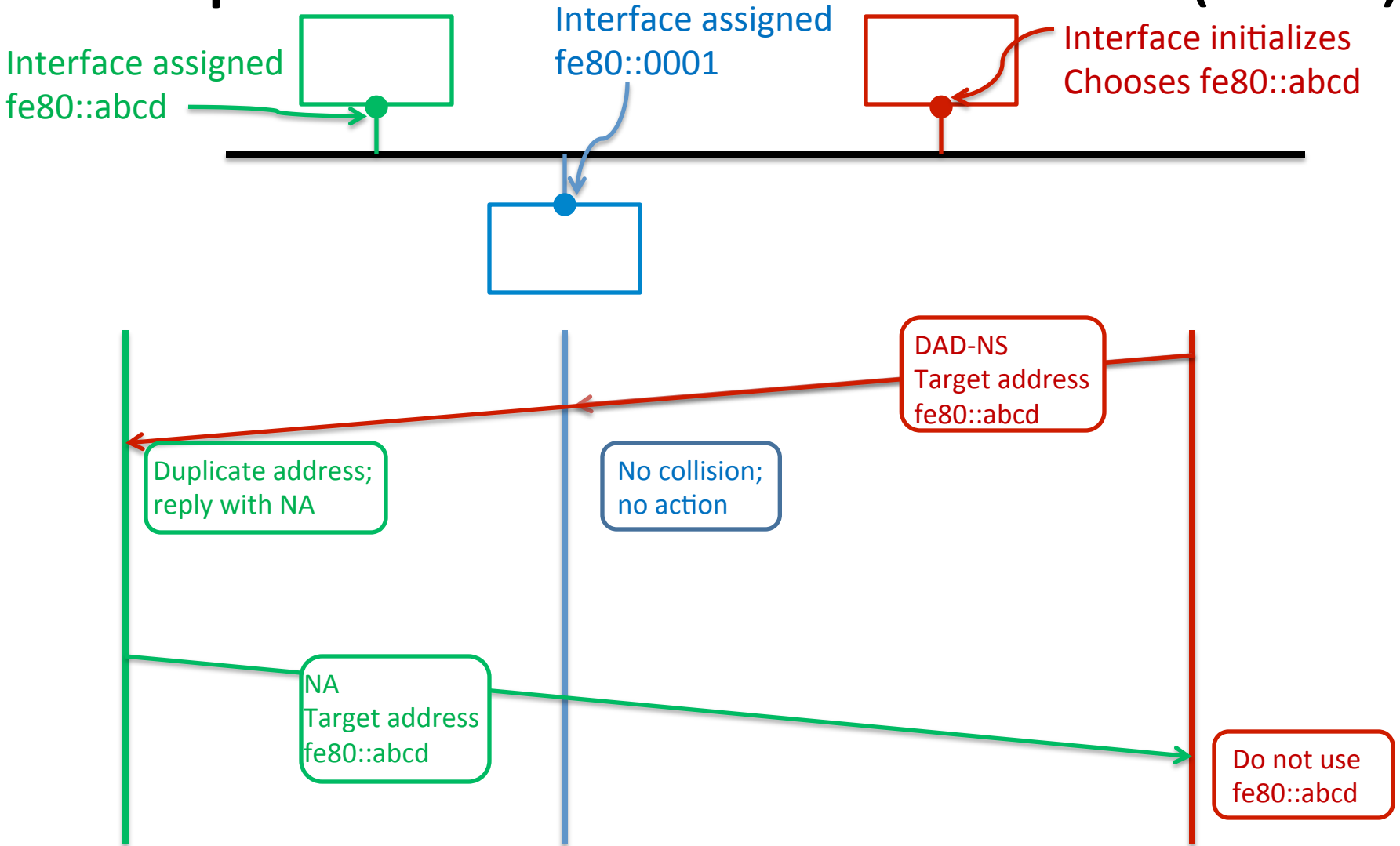


Triggering ND Address Resolution on Receiving DAD-NS

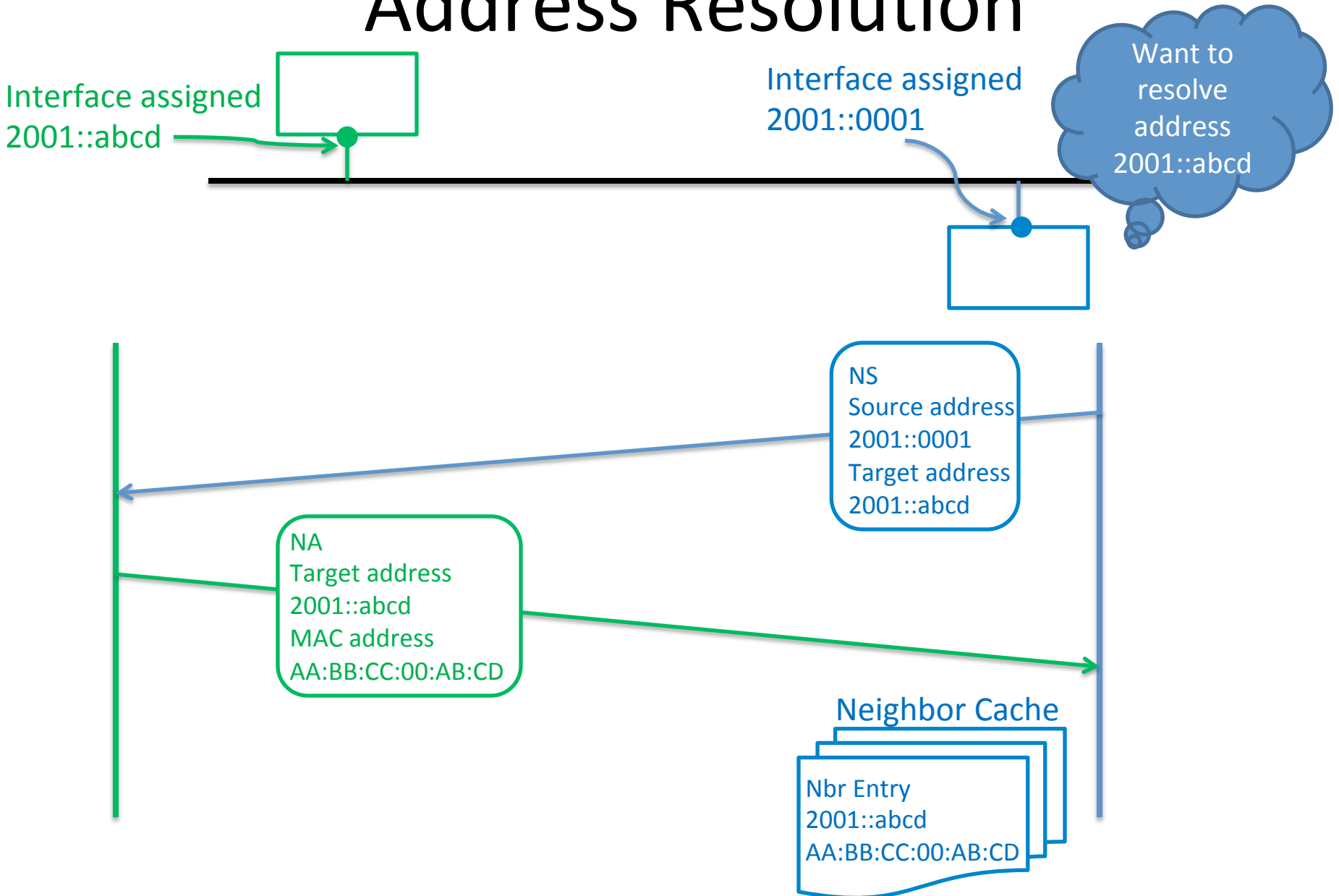
draft-halpern-6man-nd-pre-resolve-addr-00

I. Chen and J. Halpern

Duplicate Address Detection (DAD)



Address Resolution

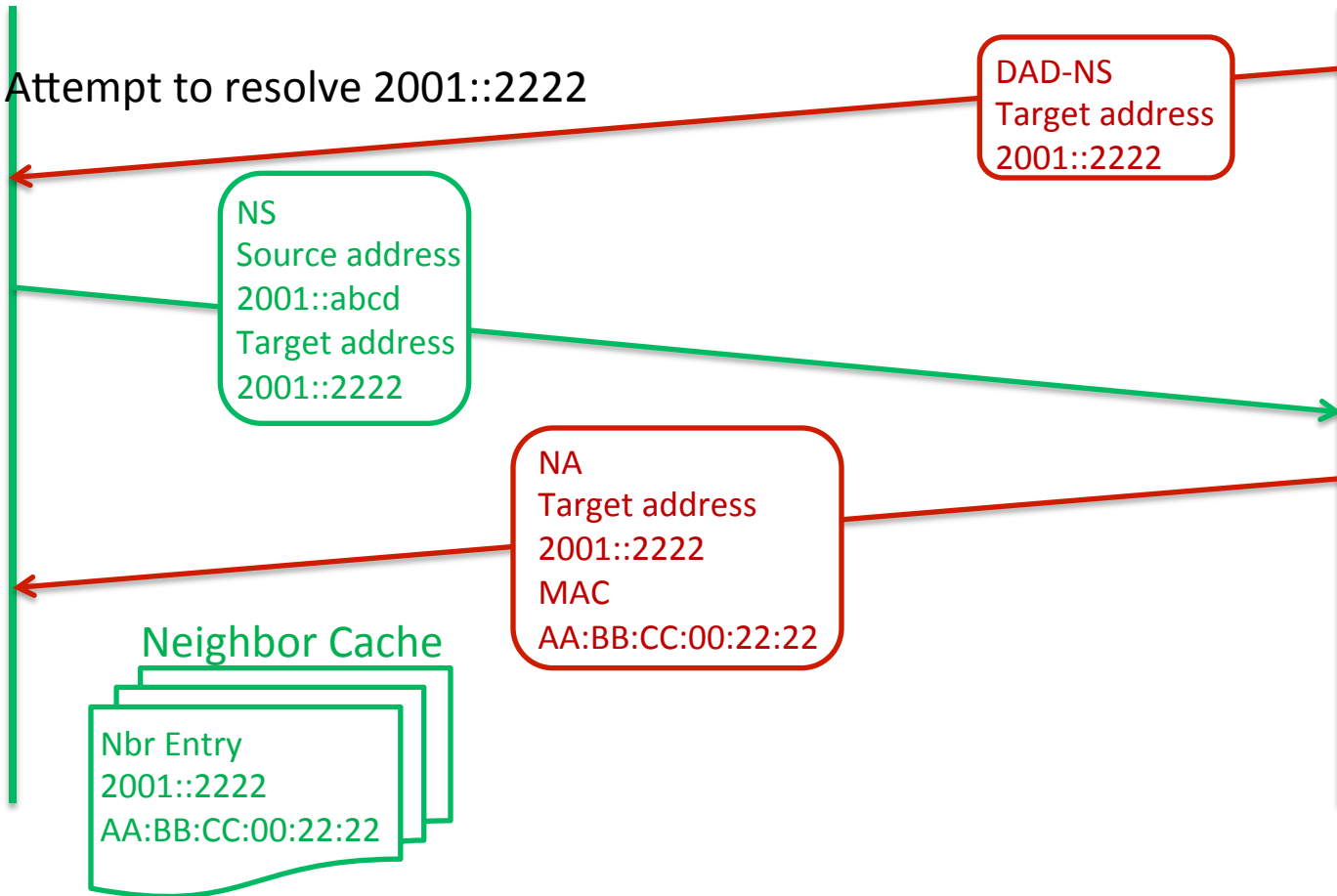


Address Resolution on DAD-NS (1)

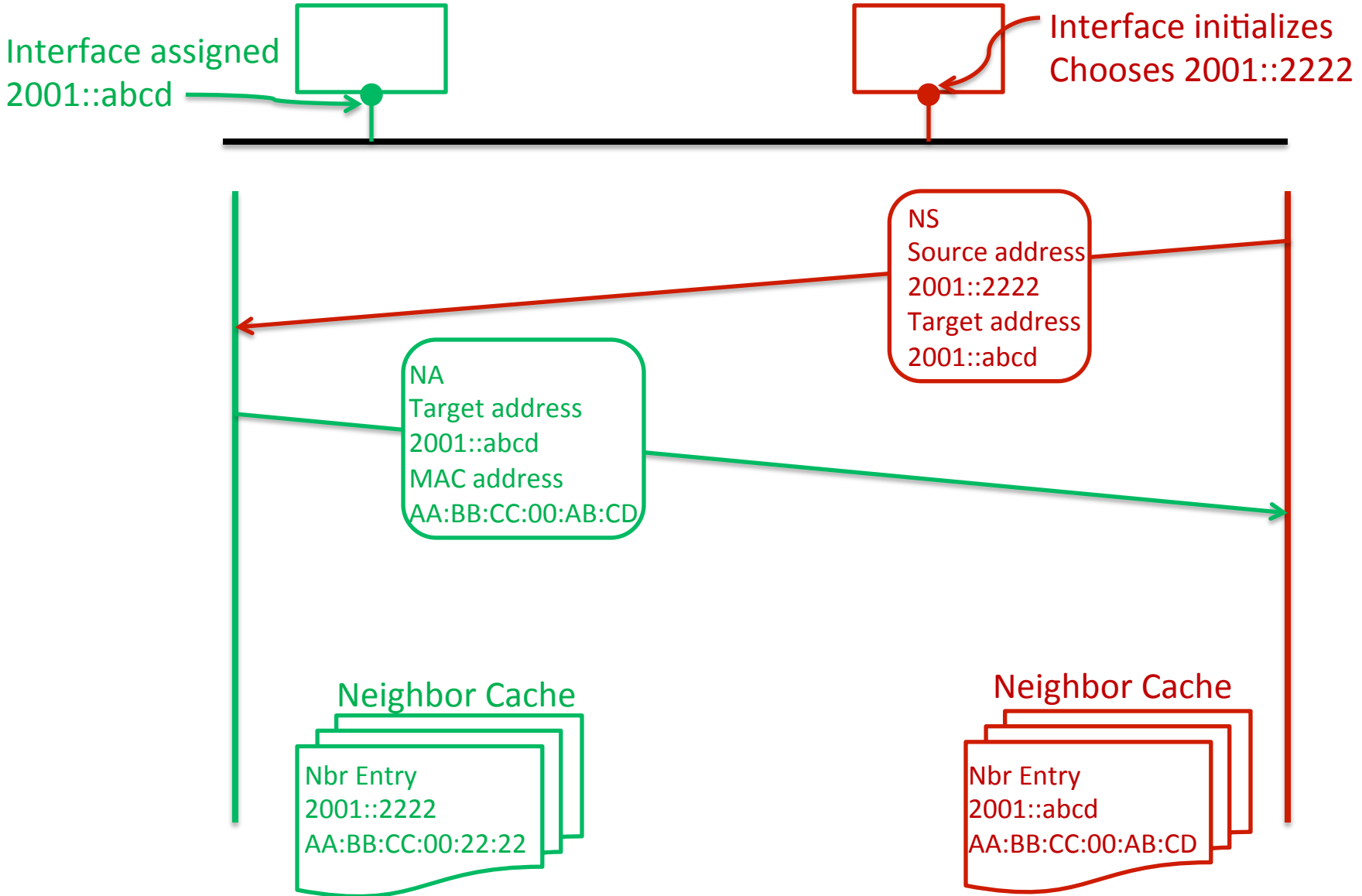


No collision

New action: Attempt to resolve 2001::2222



Address Resolution on DAD-NS (2)



Advantages

- Quickly learns of a neighbor by leveraging information in DAD-NS
 - Reduces the frequency of receiving a packet to a destination not in the ND cache and can't be forwarded without an ND transaction.
- Helps mitigate potential DOS attack on last-hop router
 - Attack: send packets to unassigned addresses behind the last-hop router / on the edge subnet.