

Route Optimization hint option

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Background

- MIP6 defines the Route Optimization (RO) mechanism.
- A mobile node can initiate RO.
 - ▷ by sending HoT/CoT to a CN at any time.

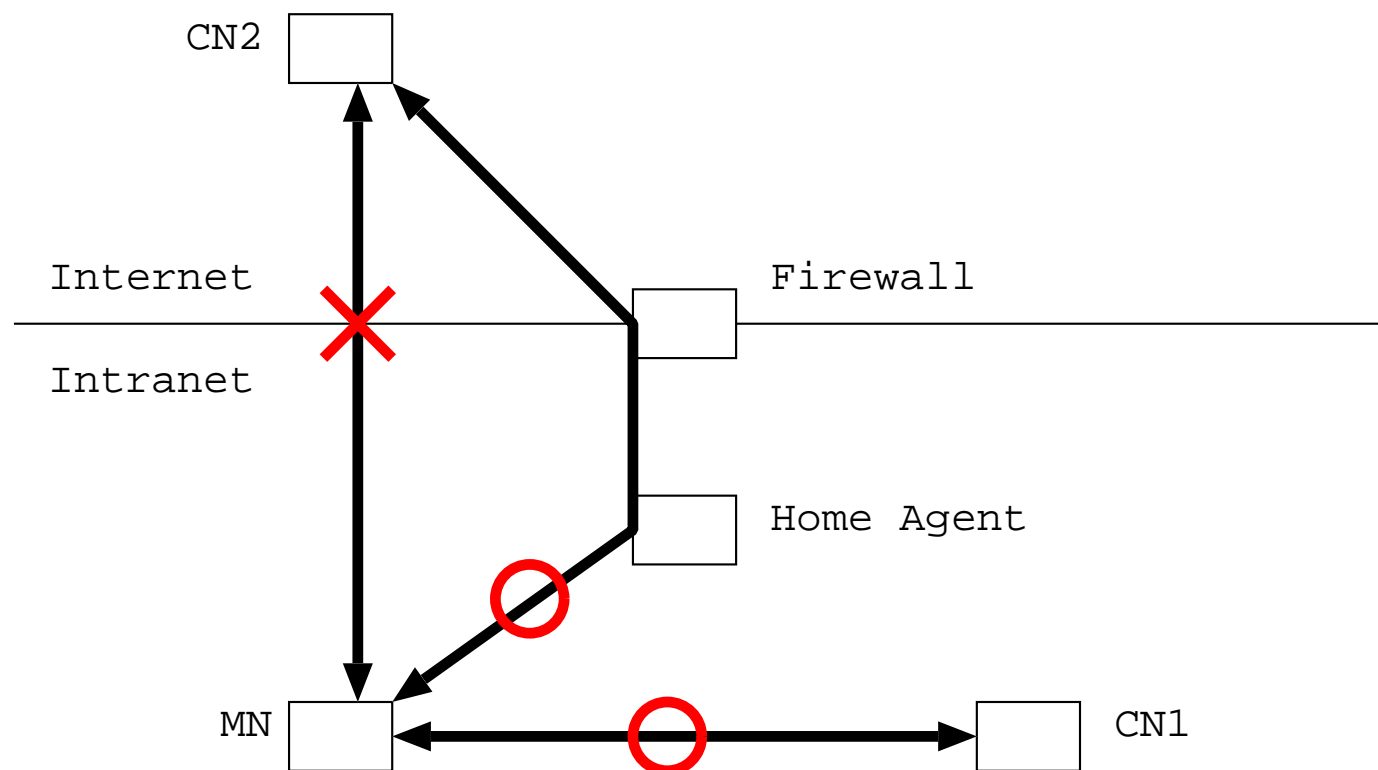
- However, there are no guidelines when to start RO.

What we need to do

- Things to be discussed and defined
 - ▷ The condition of when RO should be used
 - ▷ Methods to inform mobile nodes of the condition

An example of condition

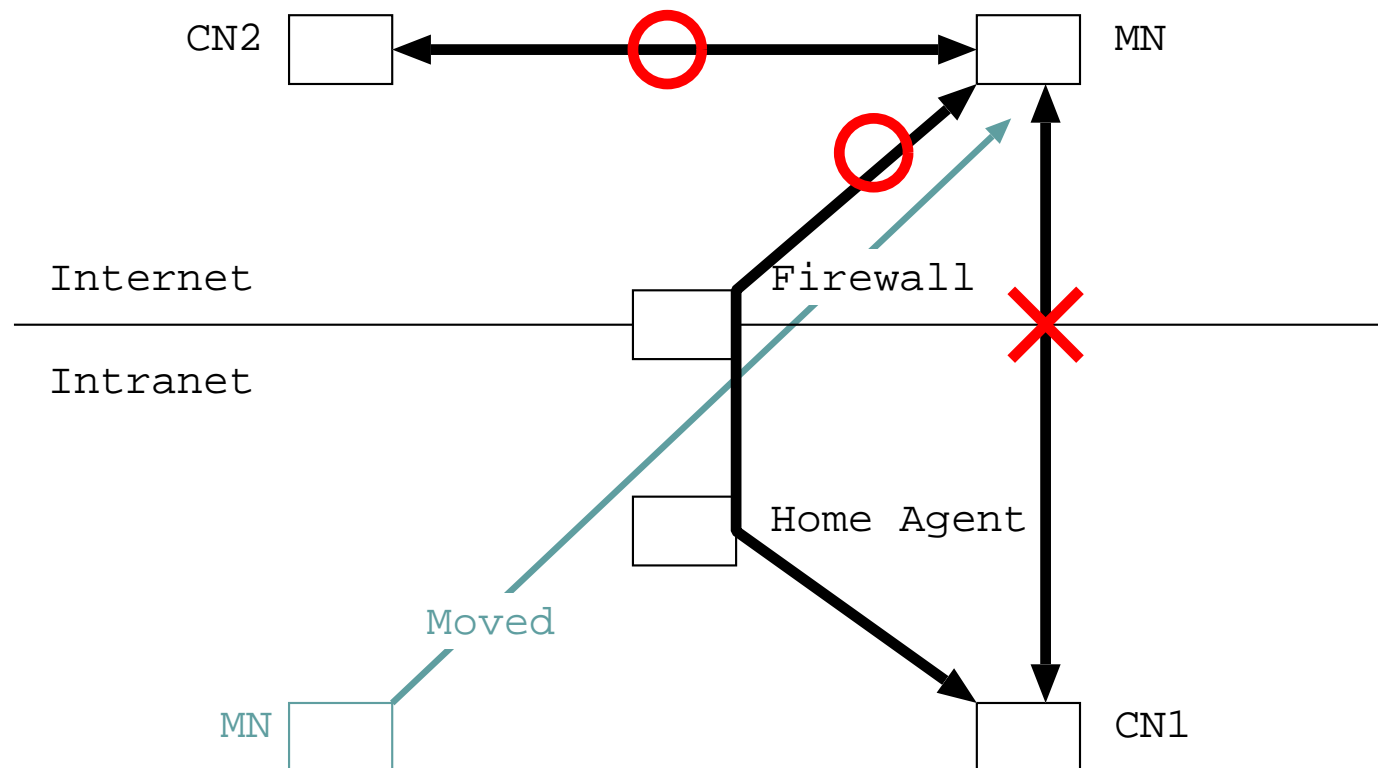
□ Firewallled network



- Communication with CN2 should not be ROed
 - ▷ Because direct traffic may be dropped
- Communication with CN1 can be ROed
- MN need to know it is IN

An example of condition (cont'd)

□ Firewallled network



- Communication with CN2 can be ROed
- Bi-directional (not RO) case with CN1 works
 - ▷ if Firewall passes tunnel packets from MN to HA
- MN need to know it is OUT

Method

□ draft-shima-mip6-rohints

- ▷ Distribute a set of intranet prefixes within MPS messages.
- ▷ MN will initiate RO if
 - ▷ MN and CN are both in an intranet, or
 - ▷ MN and CN are both in the Internet

Discussion

- Are there any condition other than firewall case?
 - ▷ Connection time between MN and CN?
 - ▷ Amount of traffic between MN and CN?
 - ▷ Type of transport protocol?

- Is this worth standardizing?

- Questions?