Mobile IP VPN Design Team Update

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Agenda

- Problem Statement
- Solution Approach and optimizations
- Timeline Update

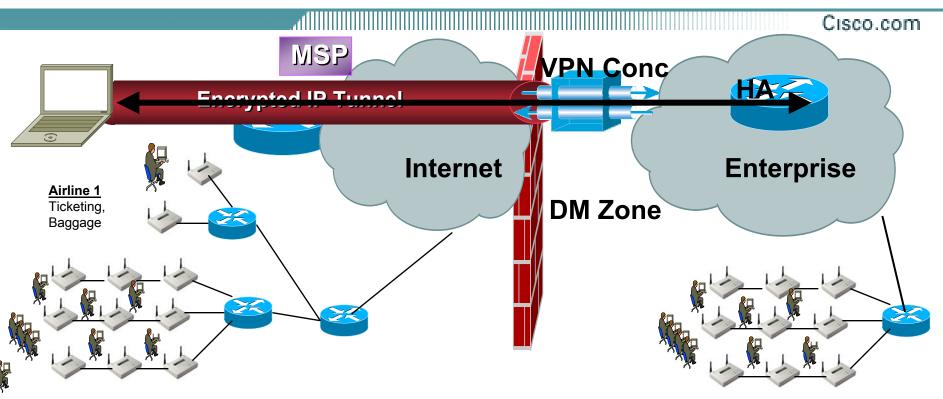
Problem Statement Draft

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- Draft is published
 - draft-ietf-mobileip-vpn-problem-statement-req-01

- Focused on IPv4
- The Design Teams definition of Problem Statement is finished
- Last Call will benefit the rest of the work

Problem Statement



- -Secure and seamless connectivity while out side the VPN domain
- -Session Mobility while moving between inside & outside a VPN Domain
- -Several other scenarios and how they can be reduced to this scenarios have been discussed in the draft

Sweepstakes for people who read the draft!!

Solution Approach

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- Several approaches have been described in the solution draft draft-ietf-mobileip-vpn-problem-solution-00
- Base Approach : draft-ietf-mobileip-vpn-problem-solution-01

Mobile inside: MIPv4

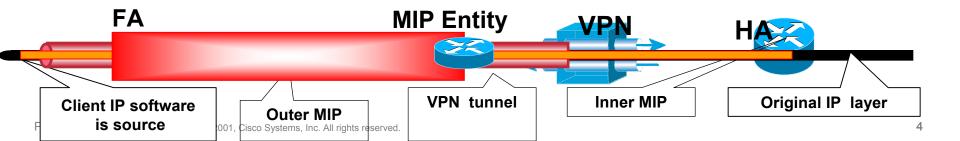
Mobile Outside:

External MIPv4 layer for mobility*

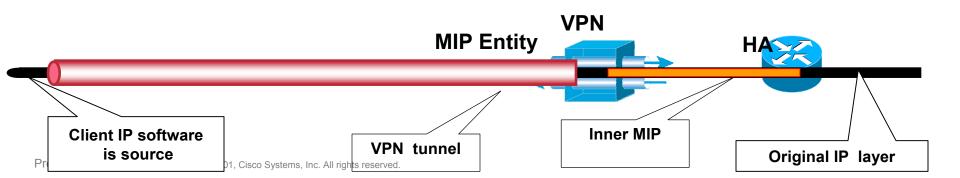
Inner MIP Registration CoA: VPN assigned address

+No Protocol Changes

Secure Inside-outside detection and movement: Under Discussion



- Optional Optimizing Mechanisms: Under Discussion
 - Avoiding External MIP Entity
 - Ability for VPN to accept IP address changes for IPsec connection: Need to get Security Review
 - Avoiding External MIP layer over the Air with out IP Sec changes
 - Zero overhead External MIP tunneling
 - Avoiding Internal MIP layer over the Air
 - Inner Tunnel Termination at the VPN device



Inside-outside detection Problem

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- To detect the location of the mobile with respect to the VPN Domain
- Possible Approaches

Registration Based Approaches

Alternatives with less assumptions

Status Update and Goals

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Problem Statement

Completed from DT perspective Last Call for Problem Statement Security Review

Solution

Draft outlining the solution approaches (00.txt)

Draft with the chosen Approach (01.txt)

Need the Problem Statement to go through last call

Need security input on optimizations

Stretch Goal: Next IETF finish the basic solution