

# Chapter 30

## *Private Networks, Virtual Private Networks, and Network Address Translation*

# ***CONTENTS***

- **PRIVATE NETWORKS**
- **VIRTUAL PRIVATE NETWORKS (VPN)**
- **NETWORK ADDRESS RESOLUTION (NAT)**

***30.1***

# ***PRIVATE NETWORKS***

**30.2**

***VIRTUAL PRIVATE  
NETWORKS  
(VPN)***

Figure 30-1

# Private network

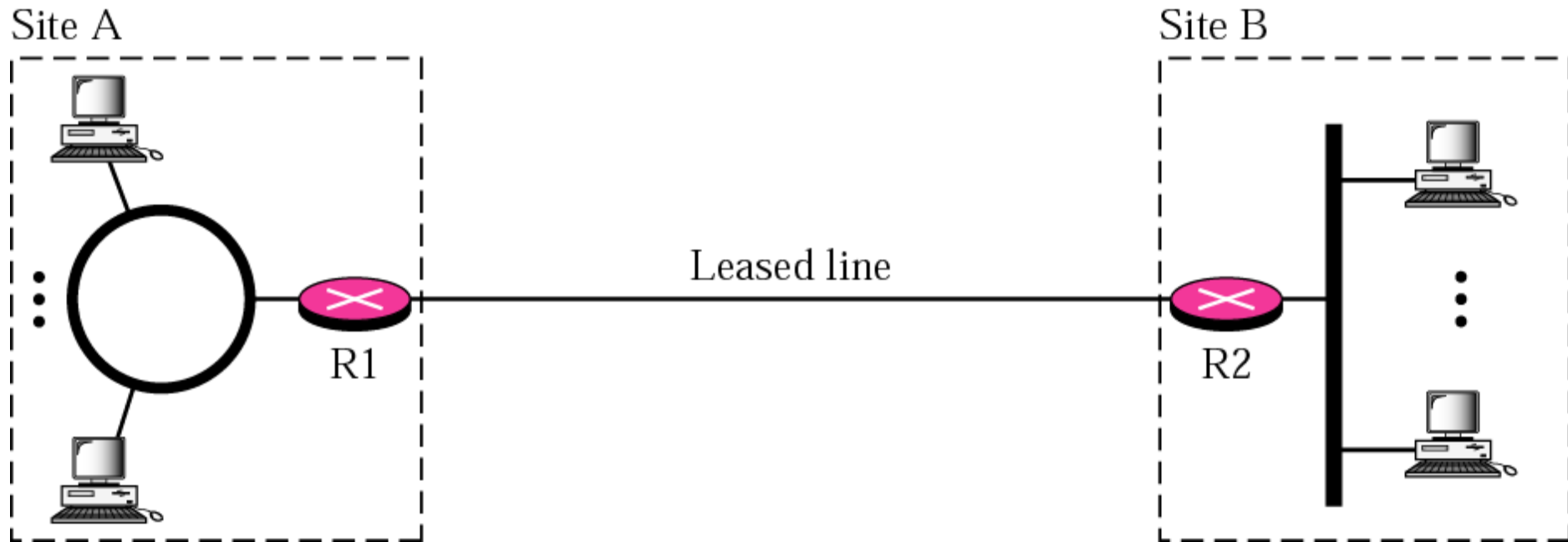


Figure 30-2

# Hybrid network

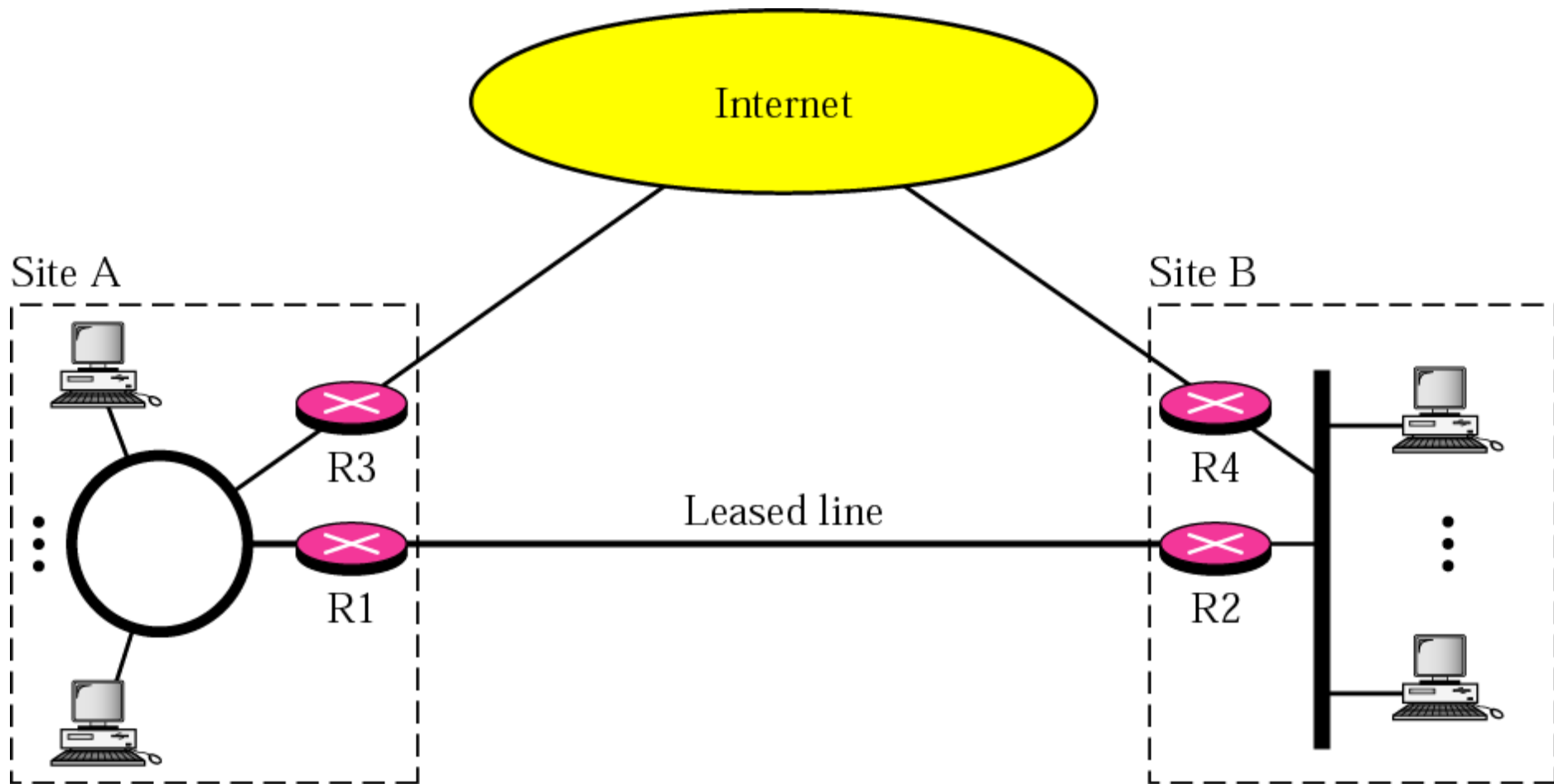


Figure 30-3

# Virtual private network

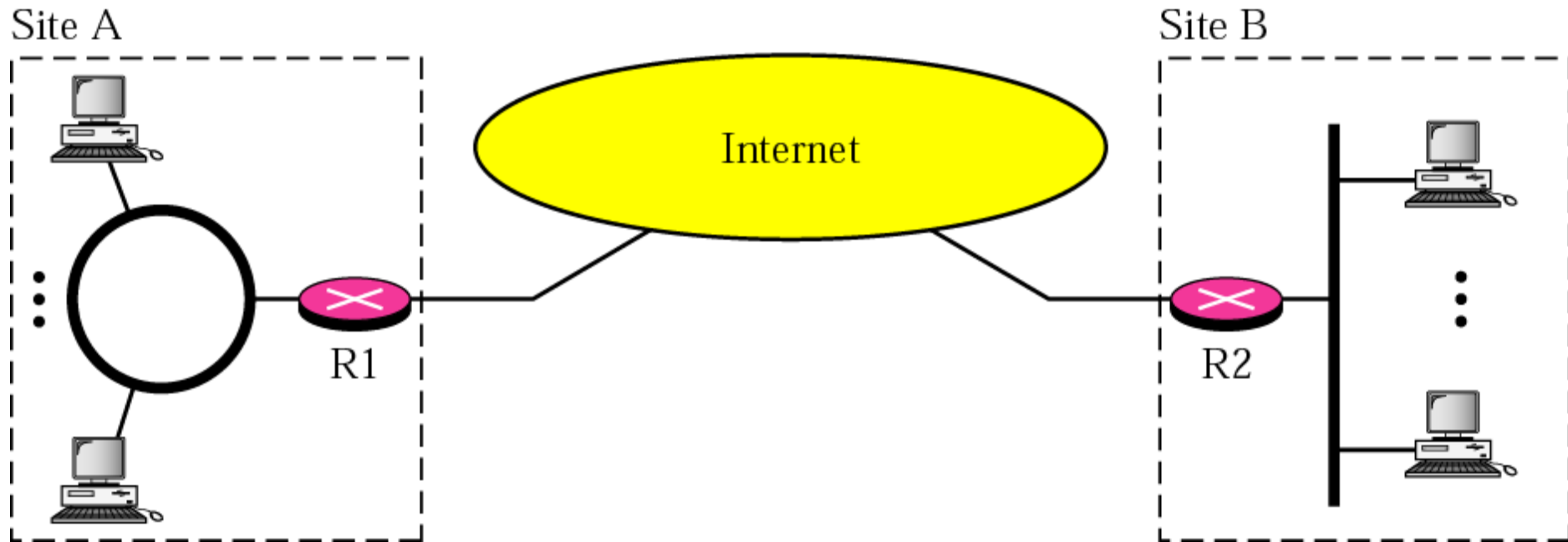


Figure 30-4

# Tunneling

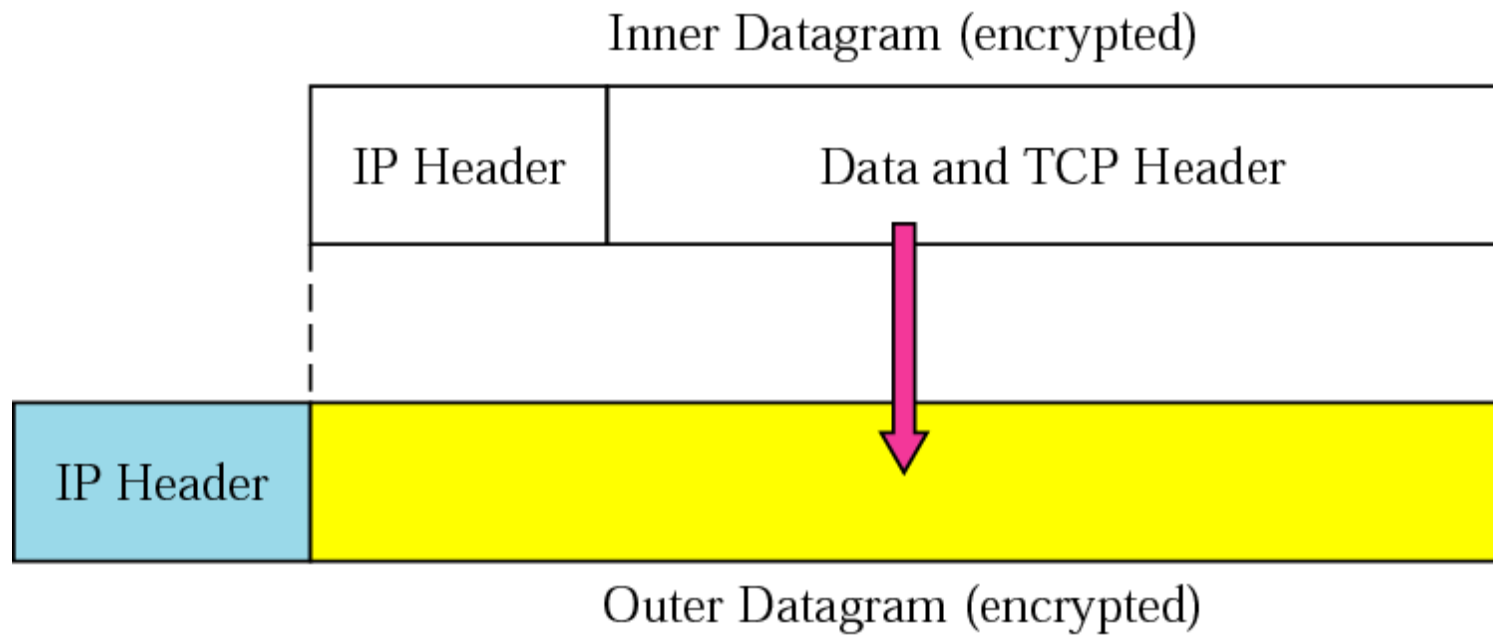
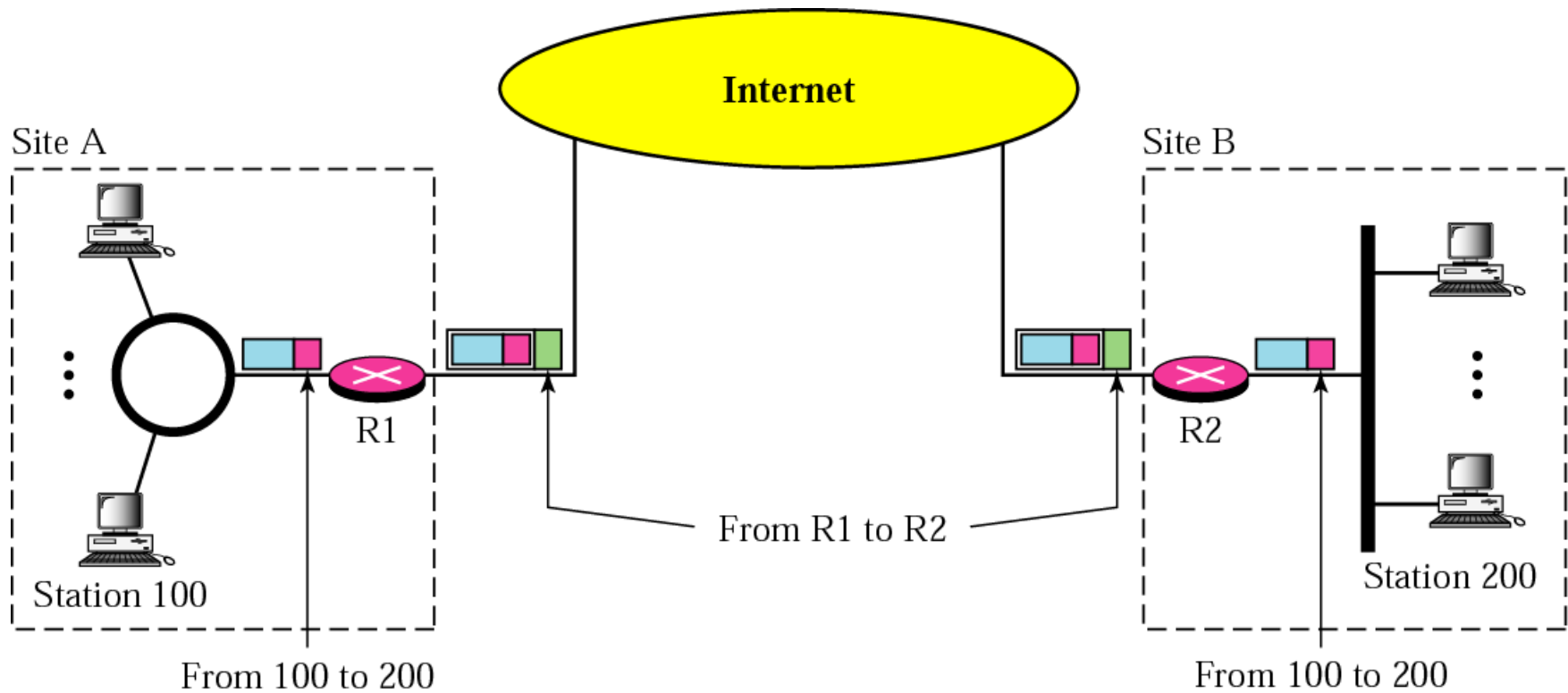




Figure 30-5

# Addressing in a VPN



***30.3***

***NETWORK ADDRESS  
TRANSLATION  
(NAT)***

Figure 30-6

# NAT

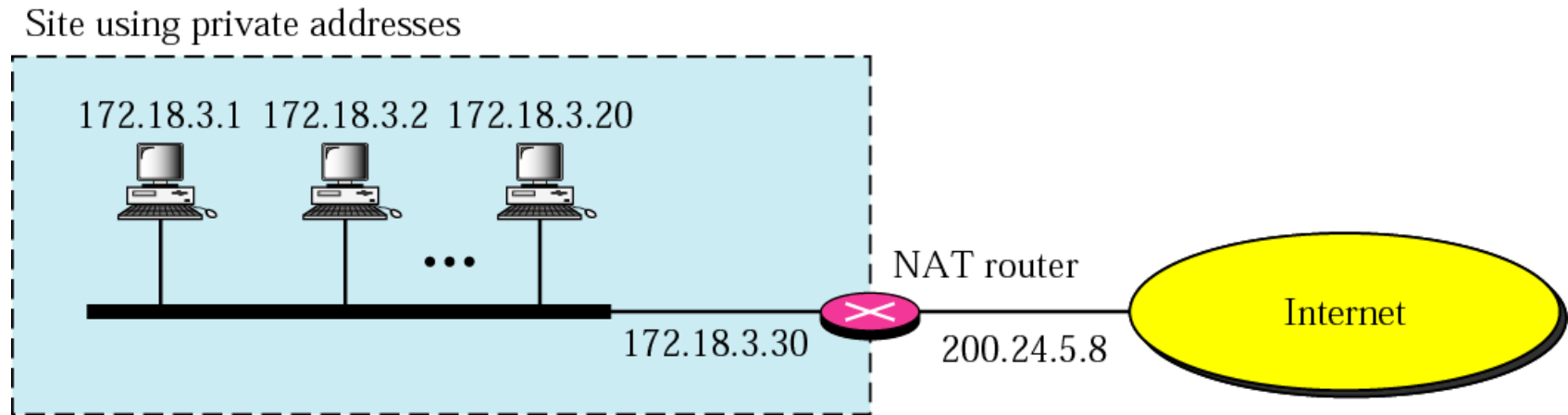


Figure 30-7

# Address translation

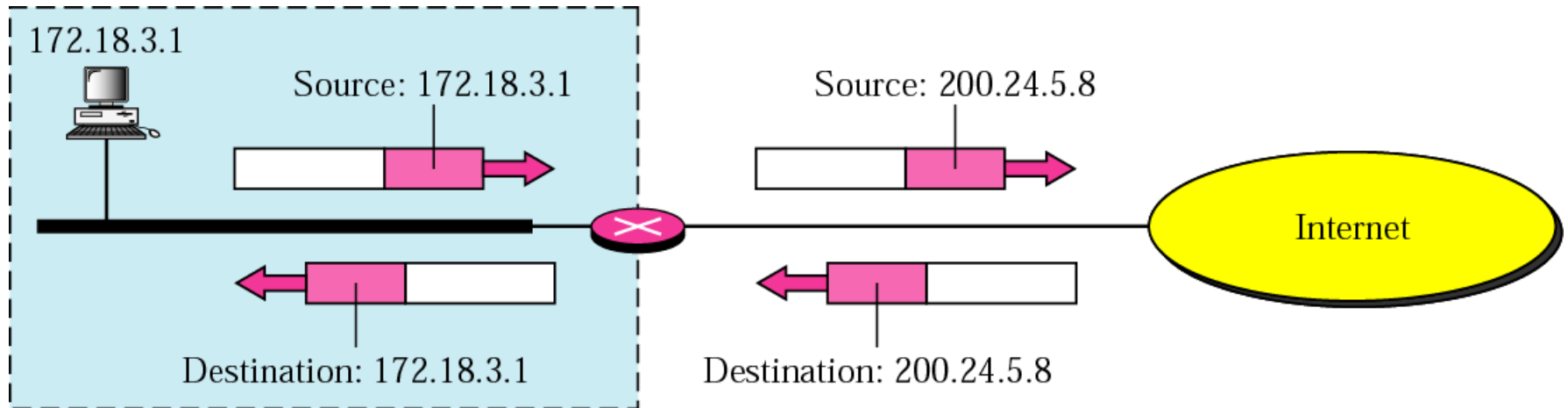


Figure 30-8

# Translation

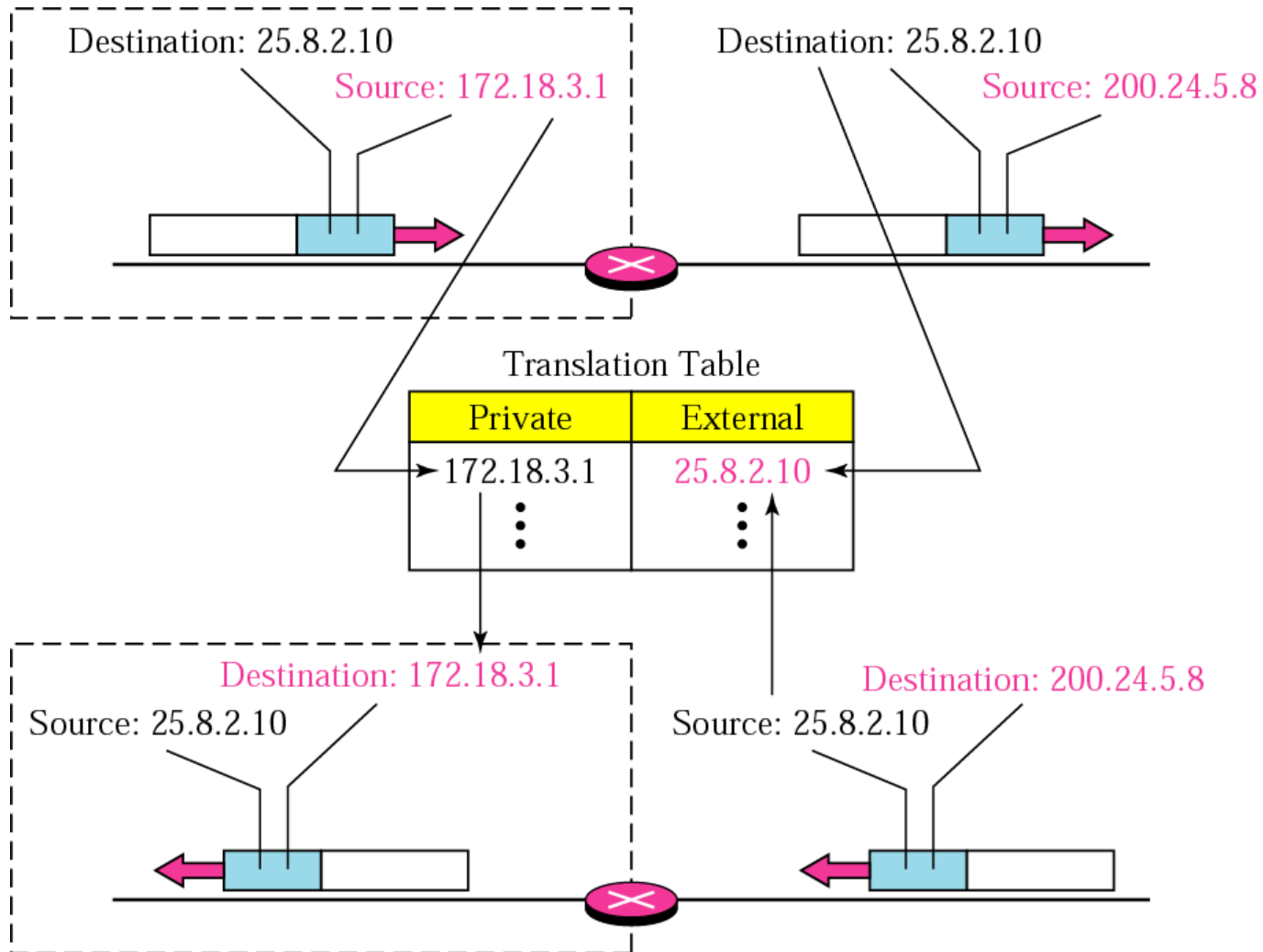


Figure 30-9

# An ISP and NAT

