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New NSFNET Architecture and California Network Access Point

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September 12 ,1994

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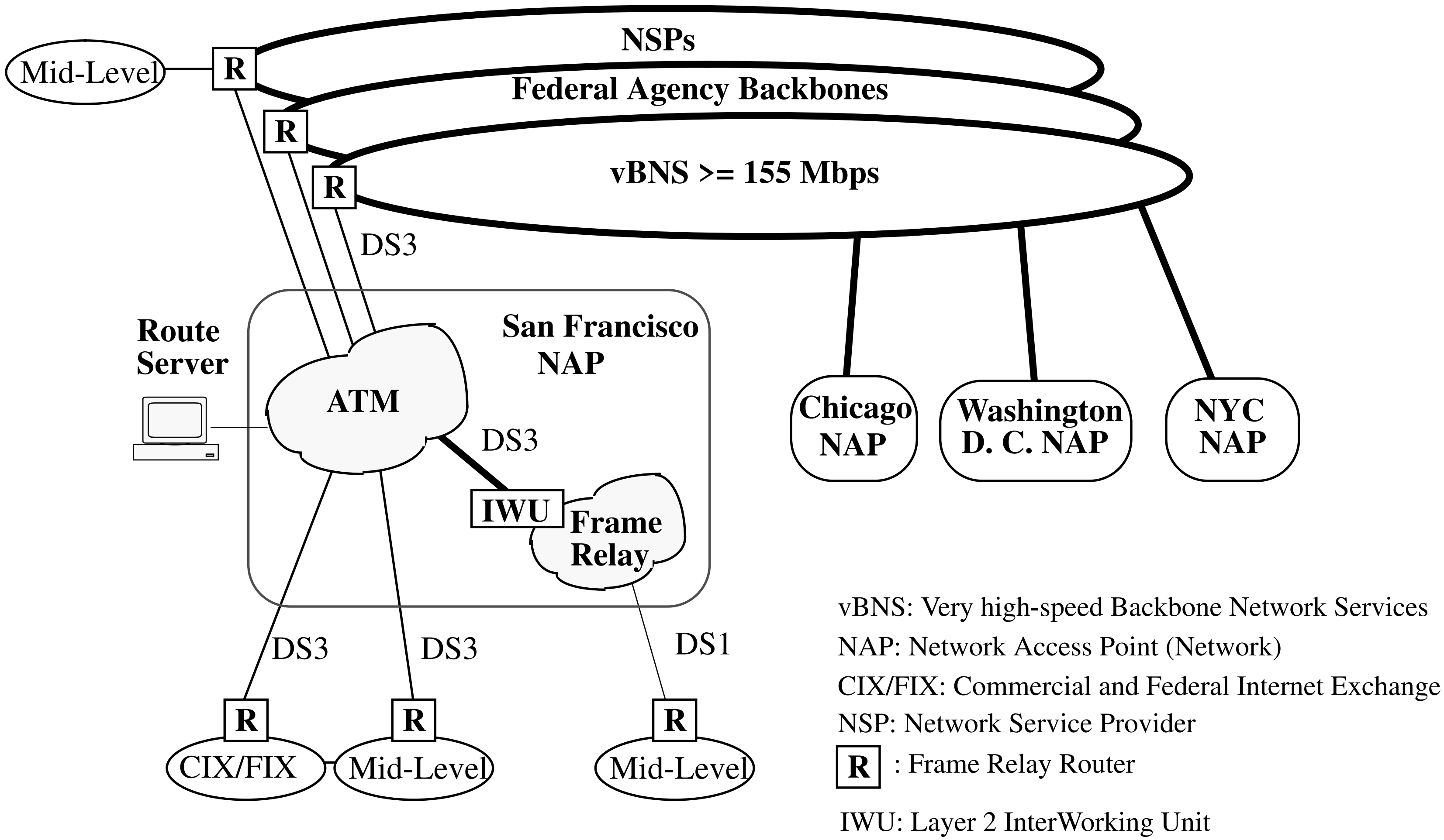


Figure 1. Phase 1 California NAP Topology

FCL

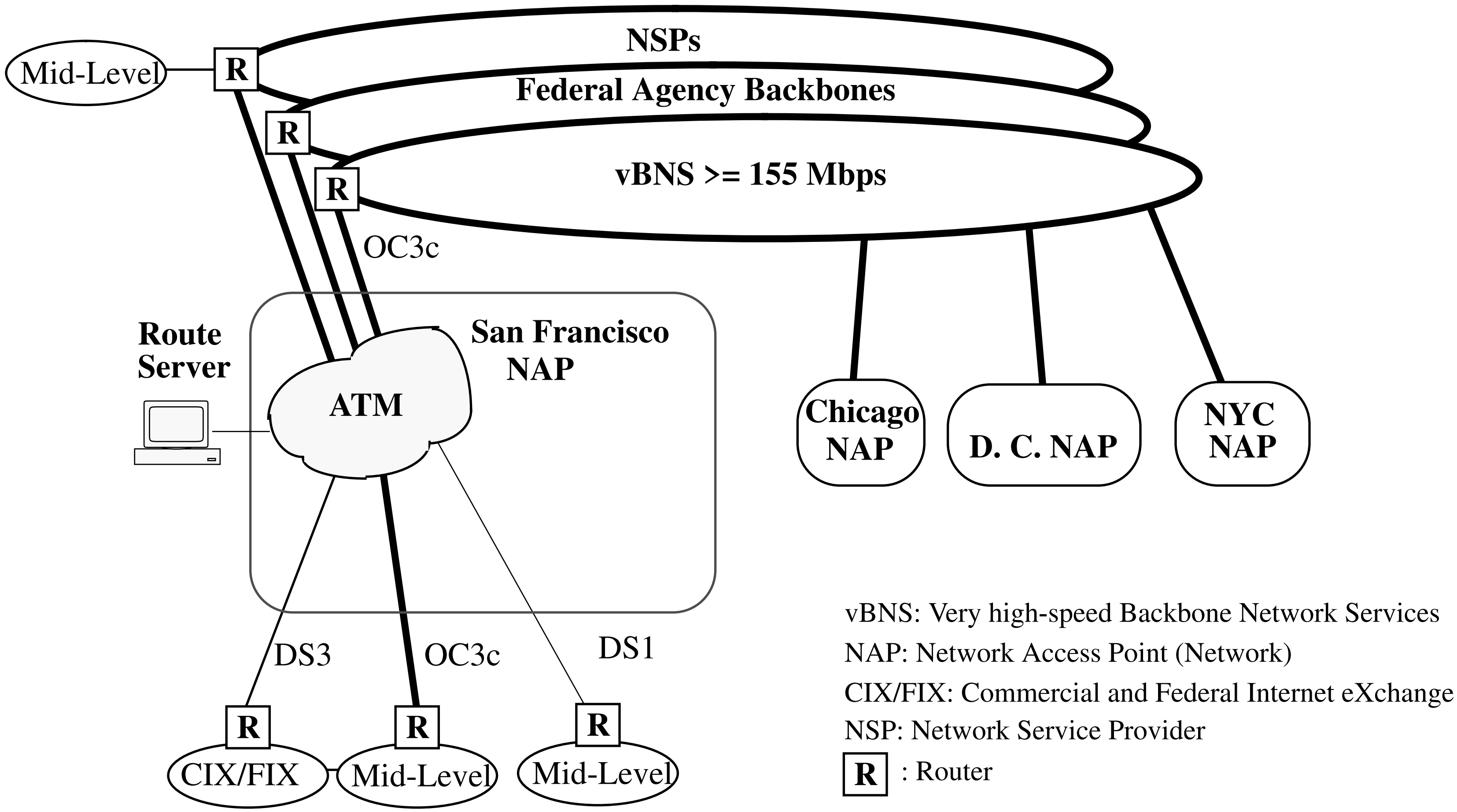
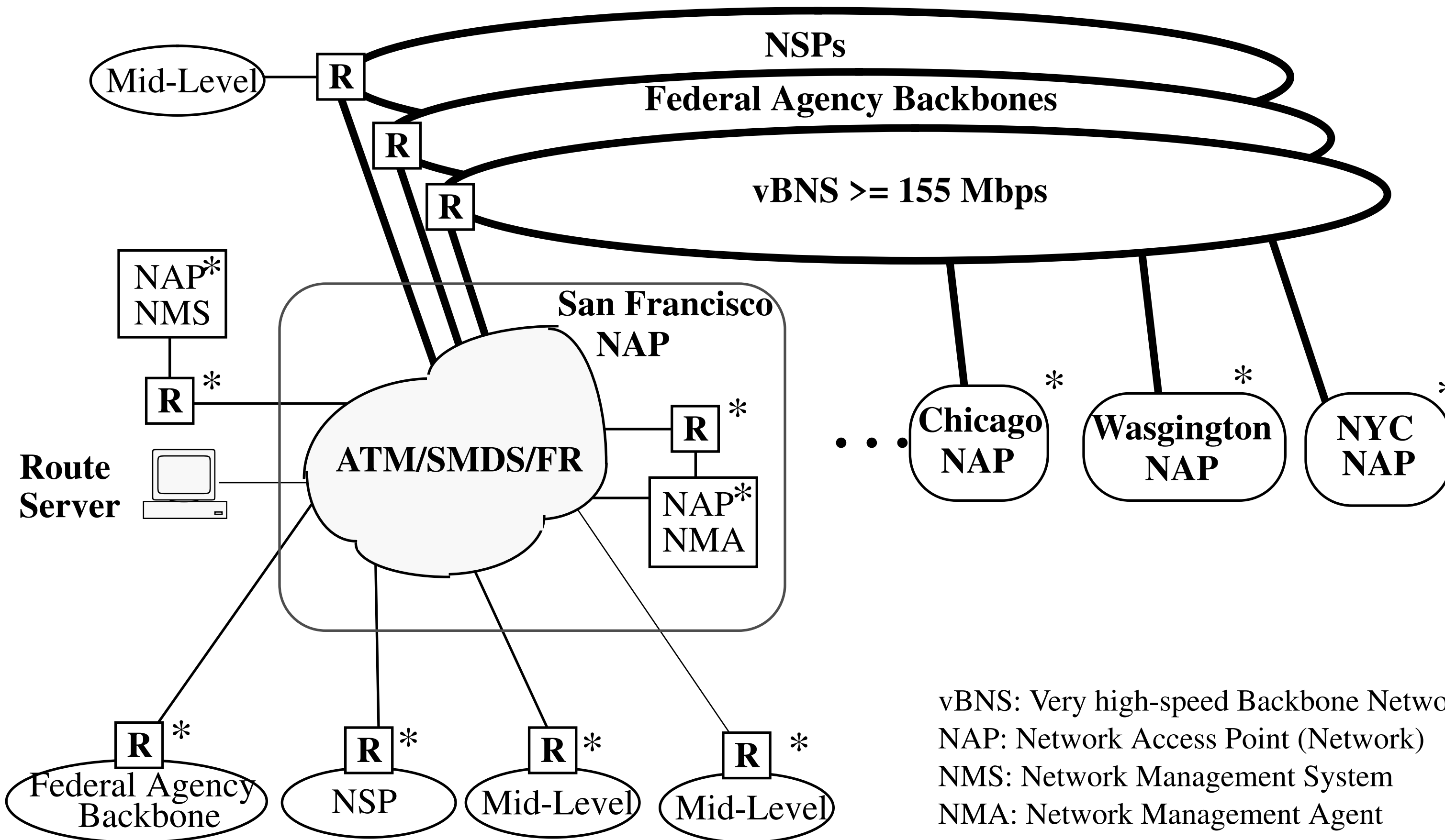


Figure 2. Phase 2 California NAP Topology

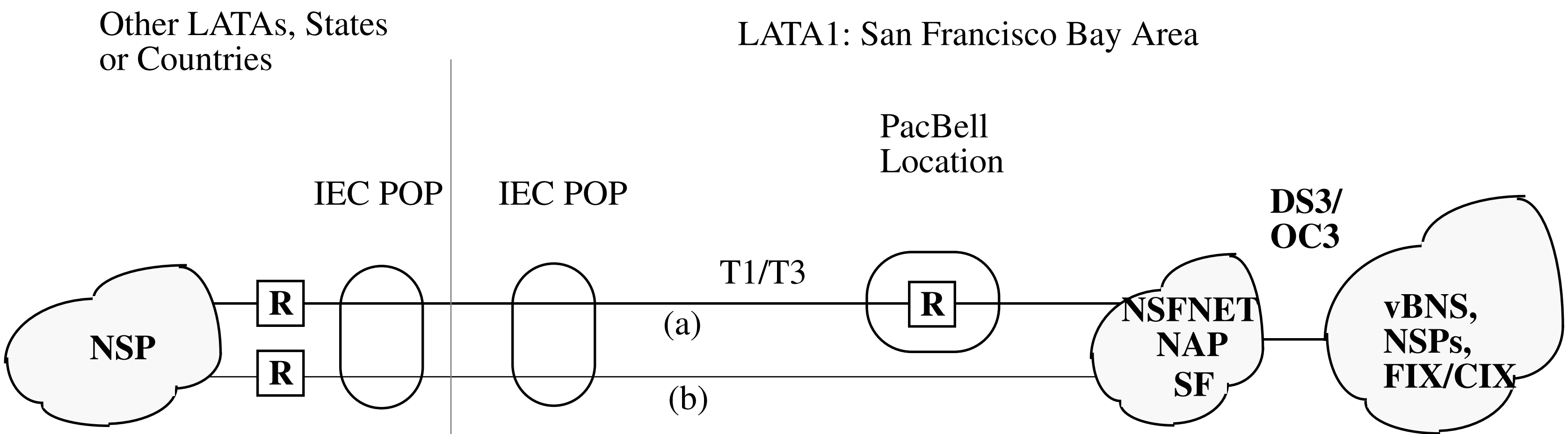
Pacific Bell NAP Features

- ATM/SMDS Technologies - low network latency
- Access speeds range from 1.5 Mbps to 155 Mbps
- Multiple network protocol interoperability - e.g. Ethernet, FDDI, ATM
- Virtual POPs (Point Of Presence) within a LATA
- Attractive pricing - mileage insensitive flat monthly rate
- Multiple NSP/midlevel networks access and selection
- Public network - no access denial
- NAP and enterprise network sharing
- Video capability



vBNS: Very high-speed Backbone Network Services
NAP: Network Access Point (Network)
NMS: Network Management System
NMA: Network Management Agent
NSP: Network Service Provider
* : SNMP-based systems, devices and networks
R : Router

Figure 3. SNMP-based NAP Network Management System



NSP: Internet Network Services Providers
FIX/CIX: Federal and Commercial Internet eXchange
R : router and DSU/CSU

Figure 4. NSP Connection from other LATAs
(a) with Service Colocation, (b) without colocation

Pacific Bell NAP Reliability

- Availablity: 99.92% or no more than 7 hrs/yr of unavalable time
- Service Time: 24 hrs/day and 7 days/week
- Mean Time between Service Outage: no less than 3893 hrs or no more than 2.25 service outages per year
- Mean Time to Restore: 2.5 hours

Pacific Bell NAP Contact

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