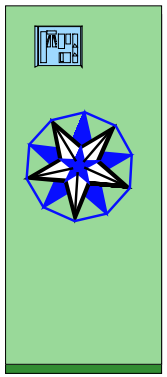
3746 Nways Controllers



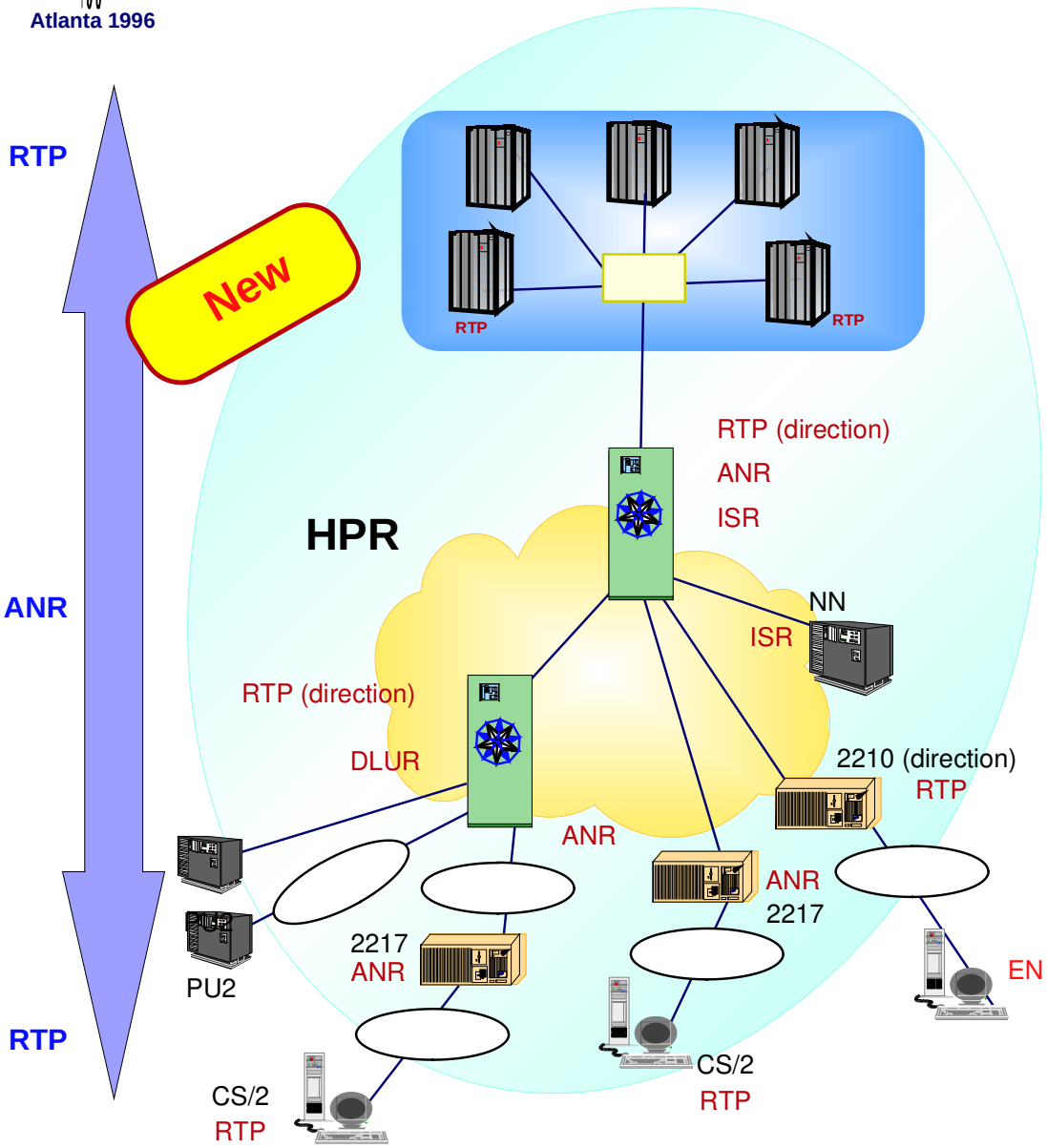
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Keep connected

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Solution for 100 % Network computing availability



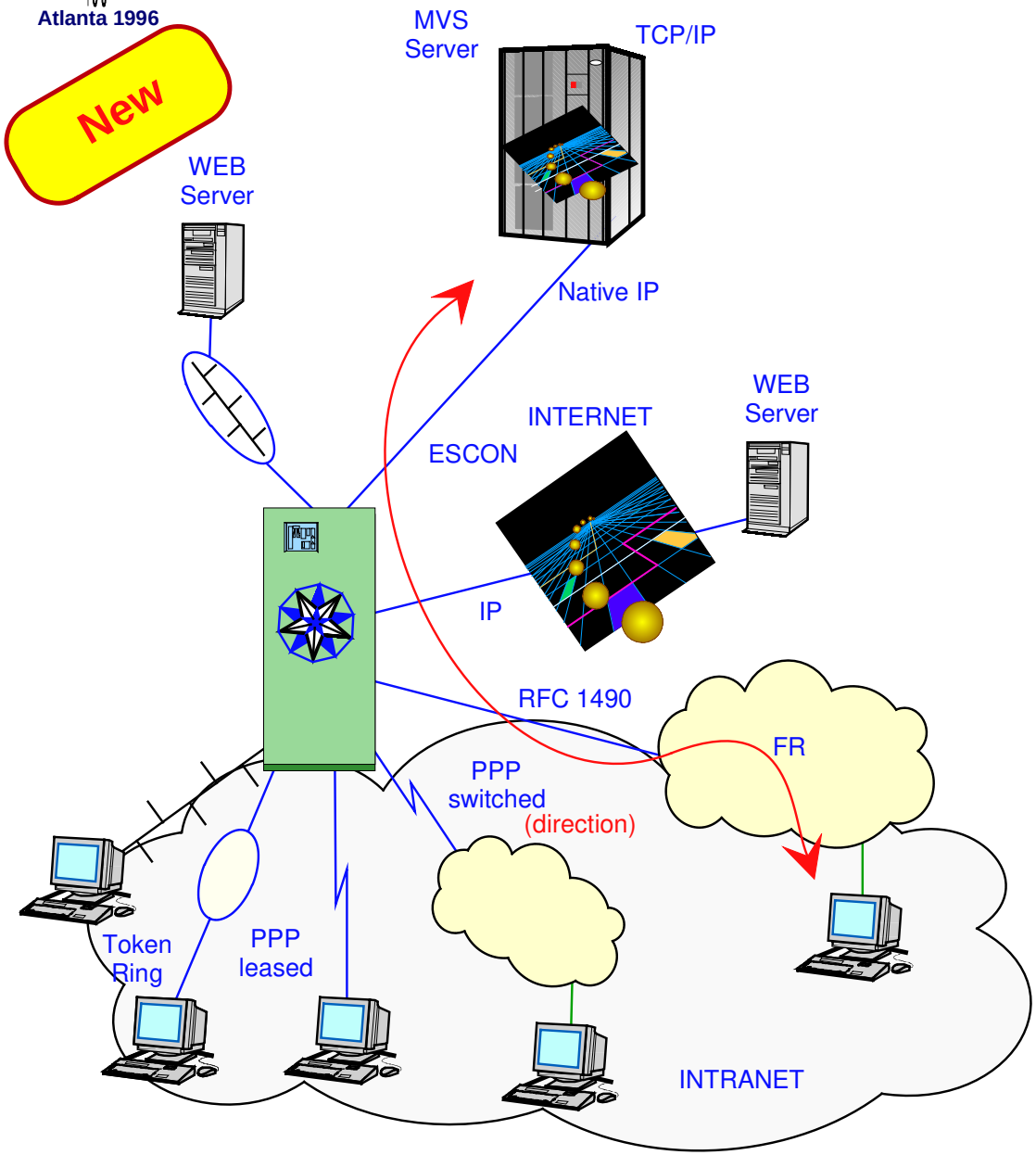
- **Network availablility**
  - 24x7x365
  - HPR end to end non-disruptive session switching
  - Full APPN dynamics for routing
- **Automatic Network Routing (ANR)**
  - Fast routing: x3 (vs APPN)
  - Unlimited number of ANR sessions
- **Rapid Transport Protocol (RTP) (*)**
  - HPR pipe for: adjacent PUs, nodes,
  - DLUR+APPN
  - End to end error recovery
- **Adaptive Rate Based (ARB) (*)**
  - Network congestion control (end to end)
  - Maximizes link utilisation
- **ISR support for non HPR nodes**
- **DLUR support for non_APPN nodes**

(*) 3746 direction

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IBM 3746 - Full fledged IP router

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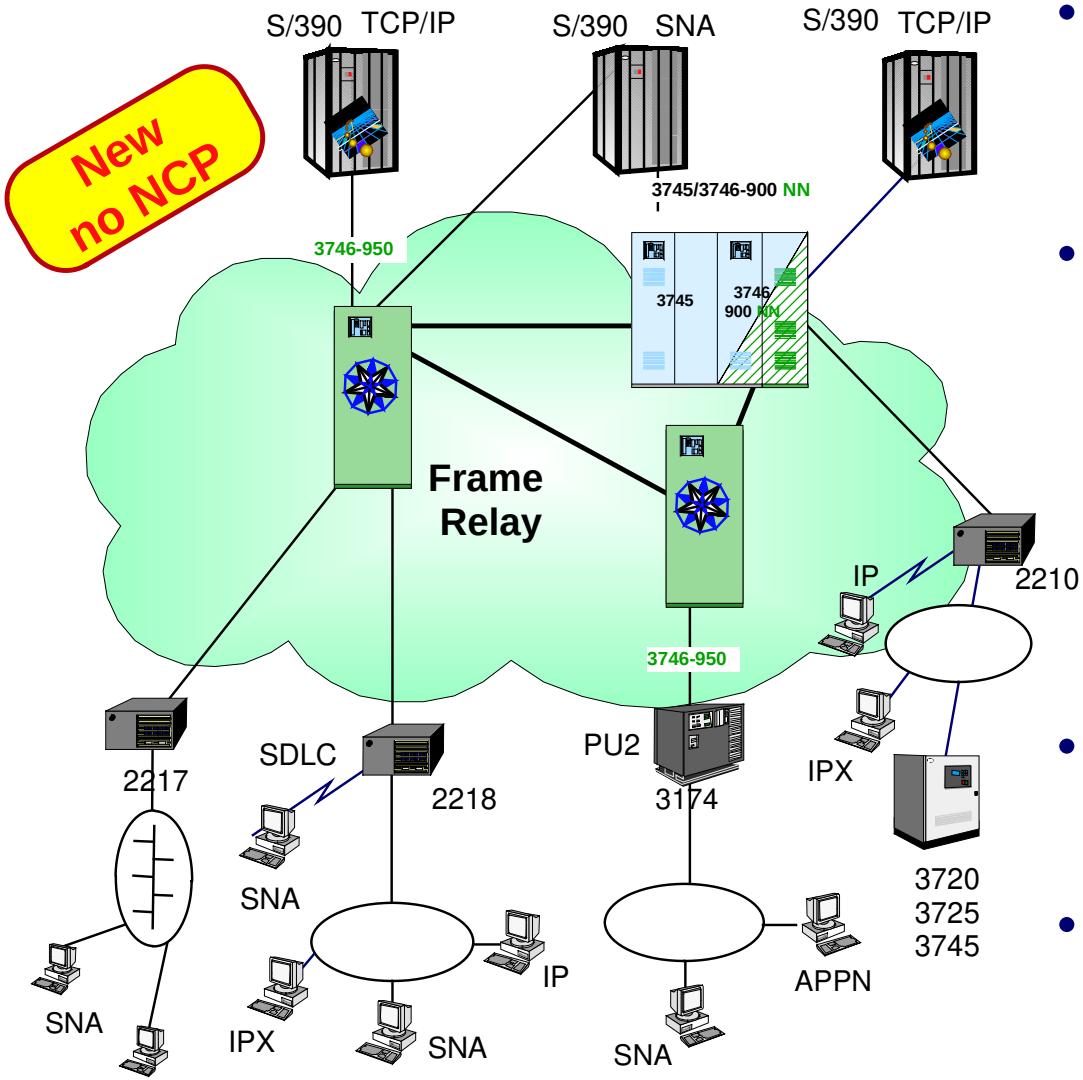
- Native IP routing over
  - LAN : Token-Ring, Ethernet
  - Channel: ESCON
  - WAN : Frame Relay, PPP
- RIP (V1), OSPF (V2), BGP (V4), ARP

- Filtering, Access Control
- Multiple IP addresses per interface
- IP application prioritization
- Header compression on WAN
  - RFC 1144
- Variable length subnet
- Bandwidth Reservation System(BRS)
- Dial on demand/WAN restoral (direction)

- Routing in the 3746 adapters
- Adapter sharing between IP/SNA/APPN/HPR
- SNMP support
  - Netview for AIX

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Single Multiprotocol Transport Network Solution

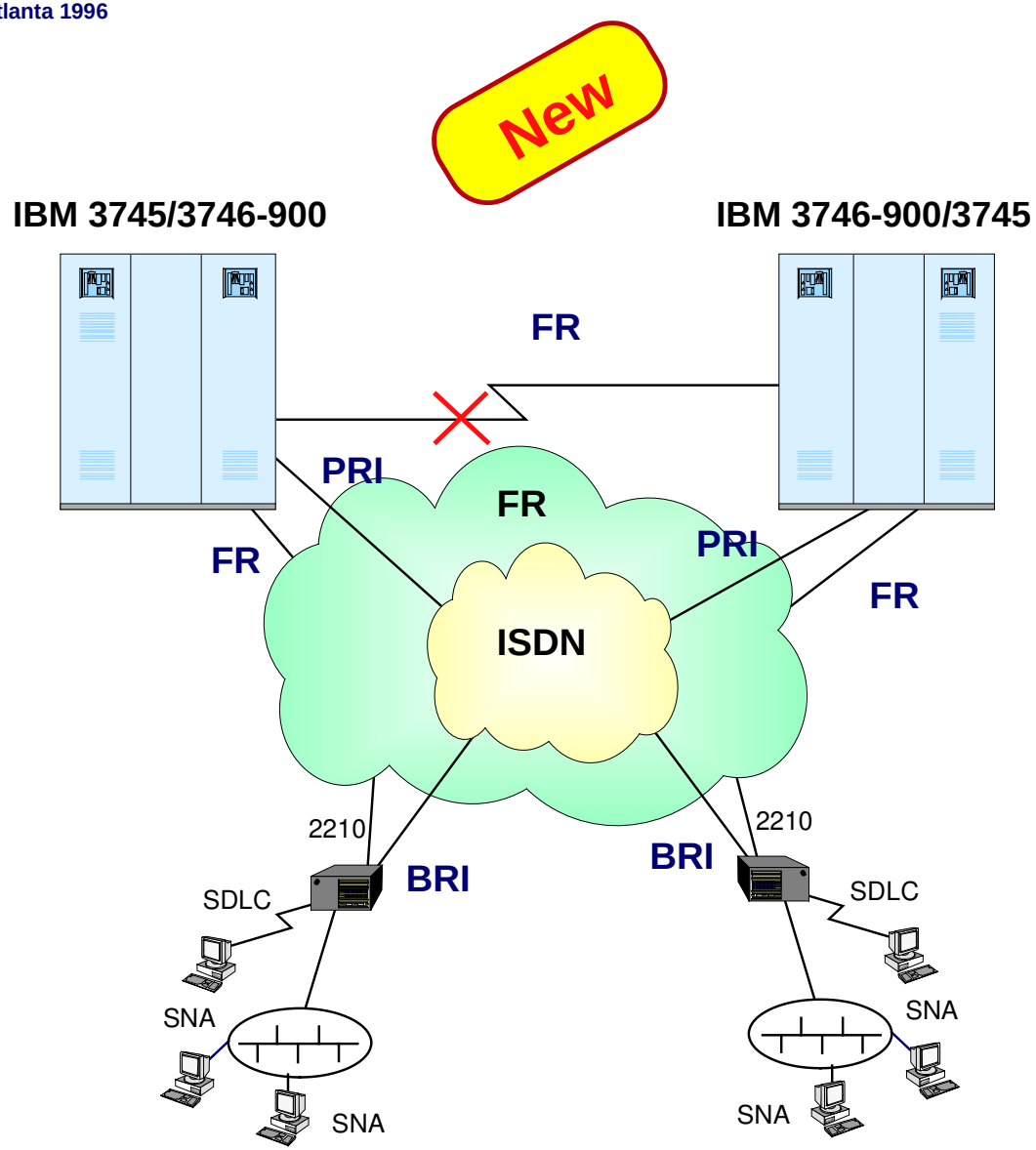


- **Frame Relay Terminating Equipment**
  - Connectivity to public/private network
  - One single network infrastructure
- **RFC 1490 compliant**
  - SNA/DLUR, APPN, IP, HPR
  - Multiple downstream PUs per DLCI
  - Single or multiple protocols per DLCI
  - FR-BAN for 2210, 2218, 6611
  - FR-BNN for 2217, 3174, RouteExpander/2
  - FR-BAN for remote 37xx (NN)
- **First class bandwidth management**
  - BRS (IP), Comrate, CIR +(direction)
- **Frame Relay Frame Handler (direction)**
  - Multiprotocol transparent transport
  - High switching rate

Improve your business competitiveness

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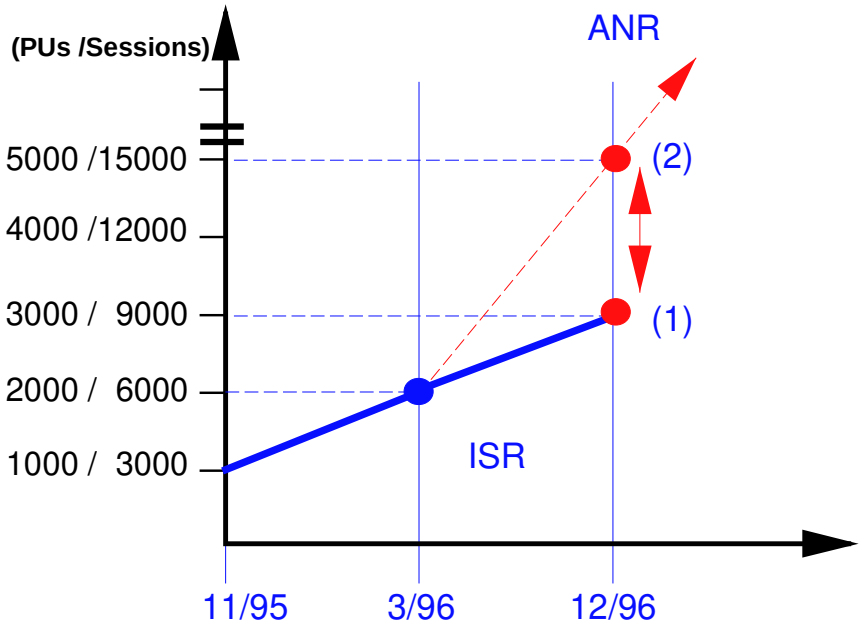
IBM 3746-900 - PRI-ISDN support

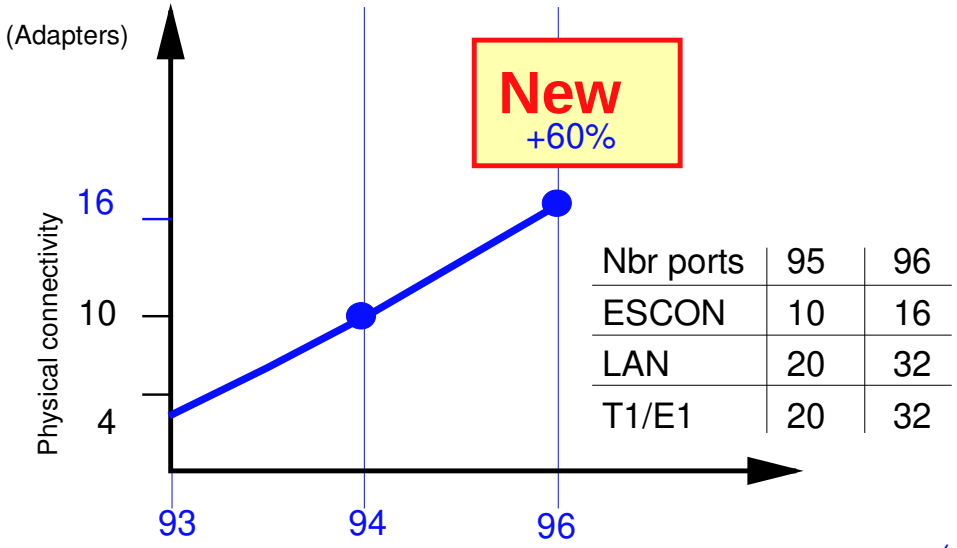


- **Primary Rate Interface ISDN**
  - PRI-ISDN adapter (up to 2 Mbps)
  - Frame Relay over ISDN B channel
  - EURO-ISDN over D channel
- **Network protocol**
  - NCP V7R5
  - SNA/APPN (NCP control)
- **Functions**
  - Call on demand
  - Back-up
  - Additional bandwidth
  - Calling number verification (VTAM user exit)

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3746 Nways Controllers natural growth path





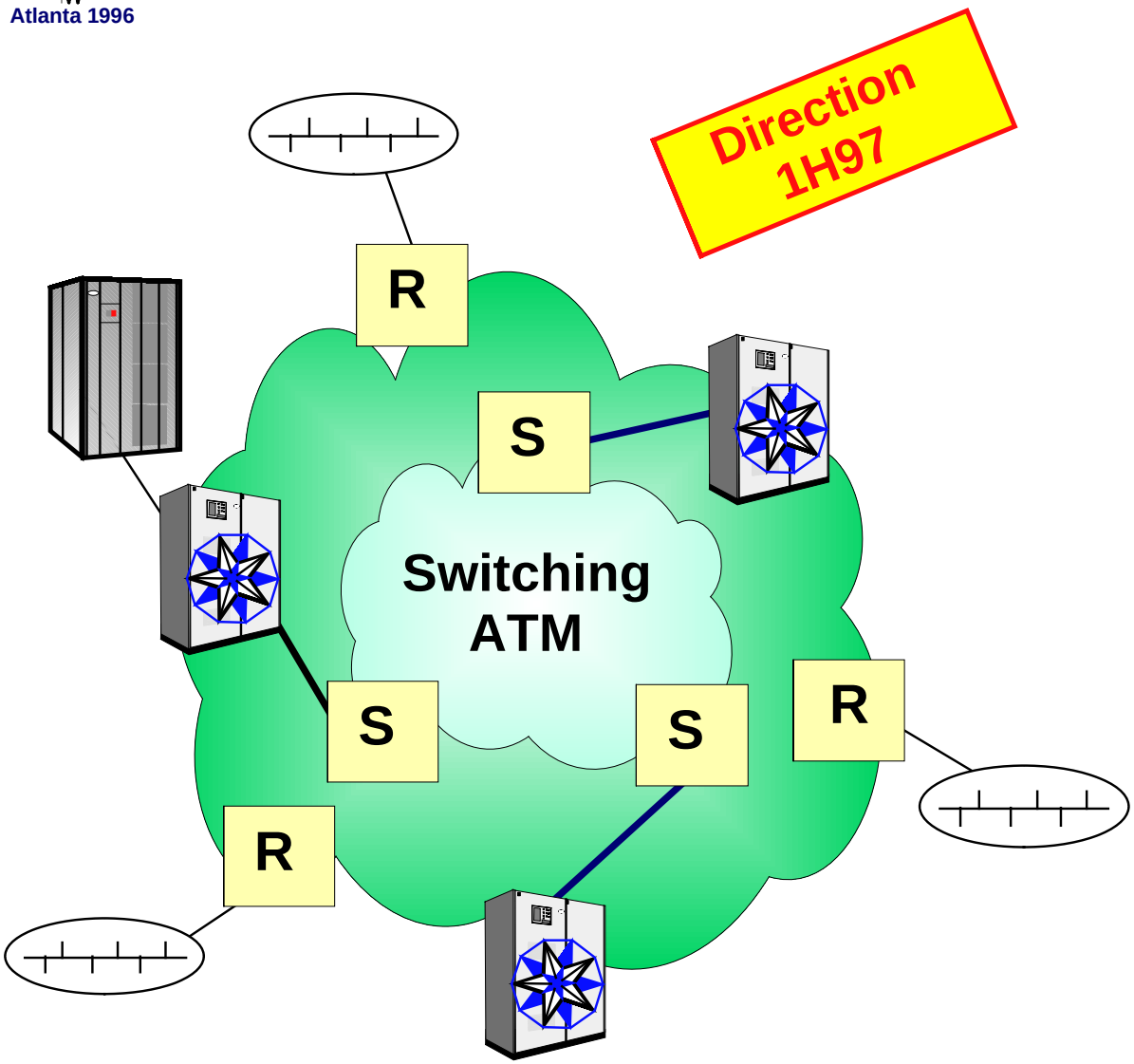
Nbr ports	95	96
ESCON	10	16
LAN	20	32
T1/E1	20	32

- **Unlimited IP sessions (Telnet)** — New
- **Unlimited ANR sessions**
- **Comprehensive FR support** — New
  - BAN
  - BAN for remote 37xx (NN)
  - BNN
  - FRTE
  - Premium class queuing algorithm (CIR+) (2)
  - FRFH (2)
- **Increase box connectivity** — New
  - 6 more adapters
  - Ethernet ports
  - ISDN Primary Rate Interface (Euro ISDN)
- **Increase APPN connectivity (2)**
  - 5000 adjacent nodes/PUs
  - 15000 sessions (ISR)
- **Easy upgrade path** — New

(1) Preview (2) Direction

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Future support of Emerging Technology

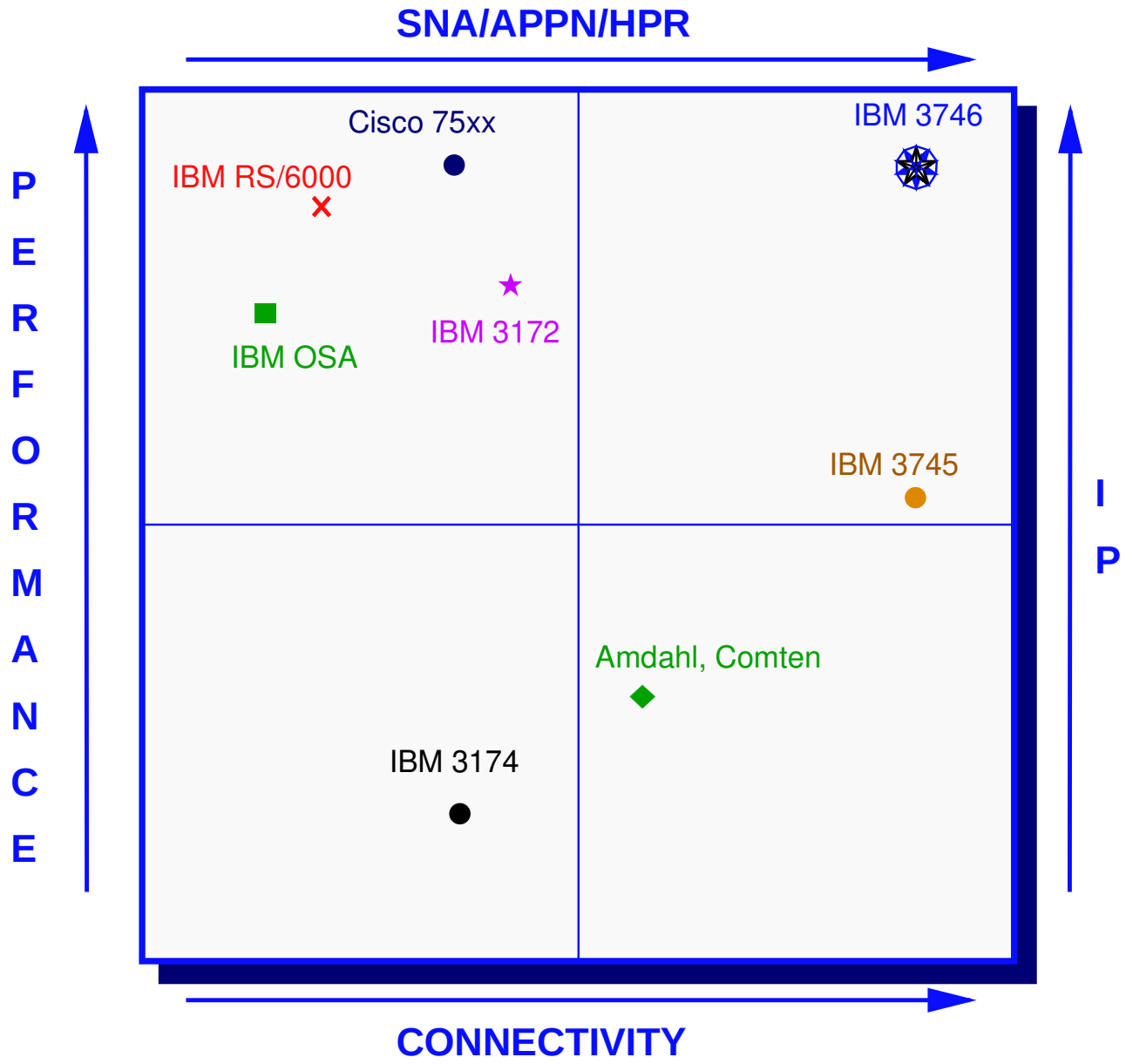


- LAN emulation (client)
- Classical IP
- High speed (155 Mps)
- Evolution to ATM networking

Natural cost effective path from SNA to HPR/IP and switching

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S/390 Front End Products - Positioning



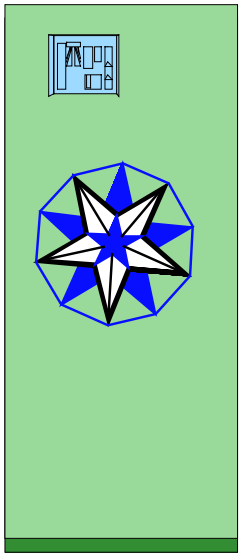
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The prime solution to bring servers into the Network

- **High Performance Routing (HPR)**
  - ANR 9/96
- **Native IP Routing**
  - ESCON/LAN 9/96
  - FR/PPP 12/96
- **Frame Relay**
  - BAN/BNN 9/96
  - BAN for INN 12/96
- **NCP V7R5 11/96**



IBM 3746

- **Connectivity/Performance**
  - EURO-ISDN (PRI) 11/96
  - 16 processors 12/96 (from 10)
  - Ethernet ports 12/96
- **Preview**
  - 3746NN Connectivity 12/96 + 50% PUs/ISR sessions
  - HPR (RTP) 12/96
  - ATM (Classic IP, LANe) 1H97
  - X25 IP/APPN/HPR 1H97
- **SOD**
  - 3746NN Connectivity 5000 PUs/15000 ISR sessions

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Available 3746-9x0 deliverables

MKTTOOLS

3746MKT - 3745/3746 presentations including previews/SODs (foils and script)
3746 (Network Node + IP) flyer, 3745/3746-900 (NCP) flyer
3745 and 3746 Overview
3746/3745 Technical presentation (**)
900NN950 - 3746-900/950 (Network Node + IP) Migration and Planning Guide, CCM (**)
3745M900 - 3745/3746-900 (NCP) Migration and Planning Guide (**)

ITSO (redbook)

GG242536-01 3746 APPN NN (Implementation Guide) (***)
SG244656-00 Subarea network to APPN Network migration (VTAM, 3746 ...)
SG244845-00 3746 IP (Implementation Guide) - 3Q96

FORUMS

Nways950

INTERNET WEB (*)

www.ibm.com

INTRANET WEB (*)

w3.lagaude.ibm.com/lagaude/ccp/3746.htm

(*) Updated 6/25/96
(**) Updated 7/96
(***) Not fully up to date (refer SG244656)

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