ALCATEL **7404**

BROADBAND ACCESS SERVER

The Alcatel 7404 Broadband Access Server (BAS) is a cost-effective solution for ISPs to expand their service offerings and increase profitability. The 7404 BAS enables ISPs currently selling narrowband Internet services to enter the higher margin broadband market.

The Alcatel 7404 BAS can manage thousands of DSL subscribers by authenticating and billing them using the same operational tools as the existing dial network.

Features

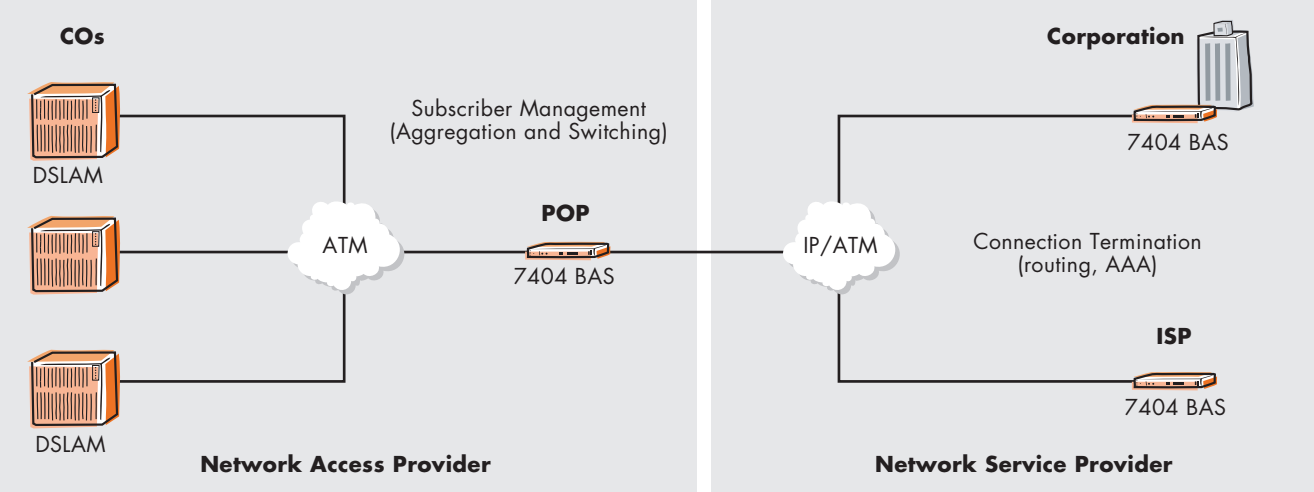
- Enables Internet service providers a seamless migration from narrowband dial to broadband DSL
- Supports broadband DSL, cable modem and fiber connections
- No hardware configuration, simple provisioning and quick service turn-up
- Allows for creation of high-value services such as subscriber management, VPNs, authentication and accounting, and service selection
- DS3, E3, or OC-3/STM-1 ATM links, plus four 10/100 Ethernet ports

Enables ISPs to cost-effectively migrate to broadband services

ALCATEL

ARCHITECTS OF AN INTERNET WORLD

▼ **Figure 1: Alcatel 7404 BAS used in an aggregation scenario**



Service creation

Enabling ISPs to sell broadband Internet service is just the start for the Alcatel 7404 BAS. Alcatel's breakthrough 7404 BAS also allows service providers to create the following value-added services:

- subscriber management
- virtual private networks
- service selection and provider selection
- differentiated services
- multi-tenant applications
- wholesaling
- service provider portal and advertising when used along with the Alcatel Service Selection Gateway

Acquire customers faster

In today's competitive environment, time to market is the difference between winning and losing a customer. The ability to turn up service in a plug-and-play manner can make all the difference. With simplified provisioning tools and a familiar interface, the Alcatel 7404 BAS will have your customers up and running in no time.

Support for both ILEC/CLEC access providers and ISPs

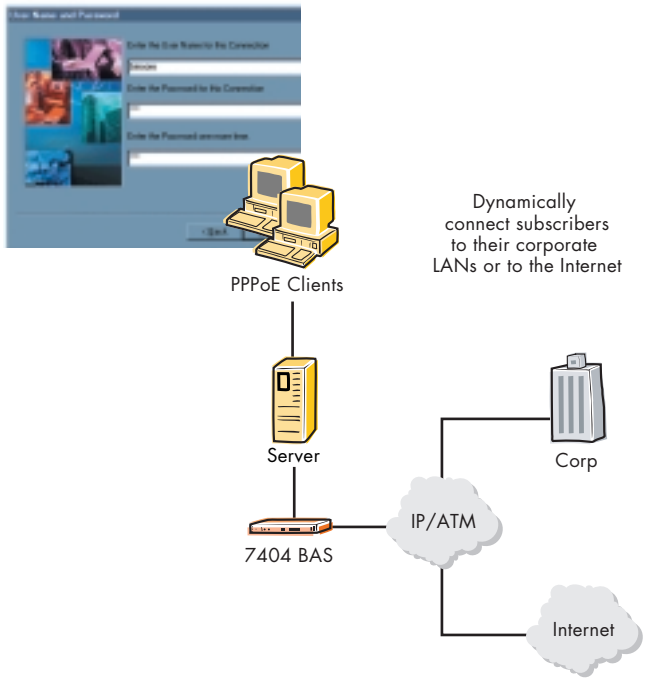
Network access providers such as ILECs, PTTs and CLECs are looking for a broadband access server to aggregate thousands of DSL subscribers to hundreds of VPNs. On the other hand, network service providers (NSPs), such as ISPs, need a broadband access server for termination of thousands of subscriber sessions, as well as authentication and billing. The Alcatel 7404 BAS supports both applications, as well as network access provider broadband applications (see Figure 1).

Support for metropolitan and multi-tenant broadband applications

CLECs are provisioning broadband services to metropolitan areas and multi-tenant buildings. A significant opportunity exists to provide broadband services to roaming subscribers.

Subscribers are willing to pay for broadband connections to e-mail, corporate resources and the Internet. The Alcatel 7404 BAS is an ideal solution for provisioning Internet and VPN services to multi-tenant applications. Subscribers are authenticated, billed and dynamically connected to their destination with the 7404 BAS.

▼ **Figure 2: Providing Internet and VPN services via the 7404 BAS**



Multi-broadband access

With a variety of new access providers emerging, ISPs are faced with multiple technology choices. As a result, ISPs can end up with multiple access equipment. The 7404 BAS can connect to any of the following broadband networks:

- xDSL: ADSL, SDSL, IDSL, VDSL, G.Lite
- fiber-based networks
- cable networks
- leased line
- wireless broadband access

Alcatel 7404 BAS Feature Summary

The Alcatel 7404 BAS is a broadband access product that enables ISPs to gracefully transition into the broadband world. The 7404 BAS is a cost-effective solution for small ISPs, and yet its rich feature set provides a powerful platform for service providers of all sizes.

Subscriber Management	✔	Wholesaling	✔
VPN Support	✔	PVC Aggregation	✔
Any Broadband Access	✔	Routing, Tunneling	✔
Service Selection	✔	QoS and DiffServ	✔
Provider Selection	✔	And much more....	

Features			
IP Protocols		IPv4, TCP, UDP, ARP, TFTP, ICMP	
PPP Protocols		PPP, PPP PAP/CHAP, L2TP LAC/LNS, PPPoE, PPPoA	
Encapsulations		PPPoA, PPPoE, L2TP, 1483B/R	
Management		SNMP, MIB II, MIB II traps, OSPF, frame relay, OSPF, RIP, ATM, Ethernet, Enterprise MIB, local/remote, command line interface, syslog, Java EMS on Solaris and NT, HP OpenView integration, flash upgrade via TFTP, ASCII configuration files	
VPN Support		L2TP, virtual routers, PPTP (future)	
Accounting		RADIUS accounting, RADIUS extensions	
Routing Support		RIP, RIPv2, OSPF, DVMRP (future), DHCP relay	
Capacity		2,000 concurrent sessions, 25 virtual routers, 50 L2TP tunnels	
ATM Forum Standards		DS3, E3, OC-3/STM-1 Physical	
		UNI 3.0, UNI 3.1, UNI 4.0	
	All SE-BAS-XX Models	Integral System Control Module, 200 W AC power, and 4 10/100Base-TX ports	
	▼ DS3	1 DS3 port, dual BNC female connectors	
Ports	▼ E3	1 E3 port, dual BNC female connectors	
	All OC-3/STM-1 Models	SC connector, STS-3C or STM-1 framing	
	▼ OC-3M	Multimode fiber	
	▼ OC-3SI	Intermediate reach single mode fiber	
	▼ OC-3SL	Long reach single mode fiber	
		System: PWR, CRIT, MAJ, MIN, ACO	System alarms: power, critical, major, minor, alarm cutoff
LED indicators		ATM: MJ, MI, NOR, ACT	ATM port: major, minor, normal, activity
		10/100: LK, ACT, SPD, DUP	10/100 ports: link, activity, speed, duplex (half or full)
		POST	Power On Self Test
Weight		4.6 kg (10.1 lb.)	
Dimensions		48.26 cm (19 in.) rack mount, Depth: 50.0 cm (19.7 in.) Width: 44.8 cm (17.6 in.) Height: 4.3 cm (1.7 in.)	
Operating Temperature		0° C to 50° C (32° to 122° F)	
Operating Humidity		10% to 95% (noncondensing)	
Power		100 to 240 V AC, 50/60 Hz, 100 W typical	
		Internal universal power supply	
Certifications		FCC Class B, CE, UL, CSA, VCCI, CISPR 22 Class B, IES60950 CB Scheme	

For more information www.alcatel.com

3CL 00469 0086 TQZZA Ed.02

ARCHITECTS OF AN INTERNET WORLD