

# CACHEBOX solutions for Service Providers



## OVERVIEW

**As a service provider you want to build a reputation for fast, reliable access to the Internet. You also want to grow your business by keeping your costs down and add more subscribers to your network.**

Unfortunately, the explosion in Internet video and social networking sites means customers are demanding faster speeds and more bandwidth. If supply is limited and upgrading your capacity is too expensive an option, you've got a problem!

You need a way to use your existing bandwidth more effectively, making better use of what you've already got.

A web caching server is the obvious solution. Most caching vendors add functionality that's just not important to service providers but still expect you to pay a higher price.

That's where the ApplianSys **CACHEBOX** can help. Our experience with service providers around the world has shown that whether you're in Ghana or in California, **CACHEBOX** is the ideal solution when Internet bandwidth is in short supply or very expensive.

## BENEFITS

### Save bandwidth and lower your costs

**CACHEBOX** reduces bandwidth use by caching http traffic and content from popular video portals like YouTube and social networks like Facebook. It offers you further savings by caching software updates from vendors like Microsoft, Apple and Adobe. Lower bandwidth use keeps your costs low because you don't have to upgrade to more expensive transit links.

### Add more users

Lower costs mean you can drop your prices below your competitors to attract more business. What's more, the additional free space lets you increase the number of subscribers on your network without decreasing the quality of your service.

### Improve customer satisfaction

By bringing content closer to your customers, **CACHEBOX** increases average response rates and speeds up file downloads. Subscribers will be happier with your service and stay loyal for longer.

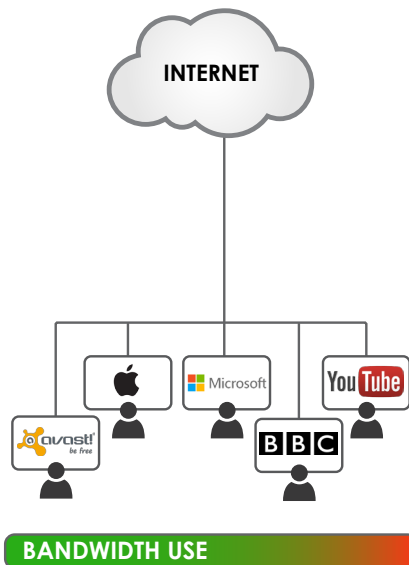
### Add new services

More free space also means you can offer new services like Voice over IP, or charge premium prices for quality service.

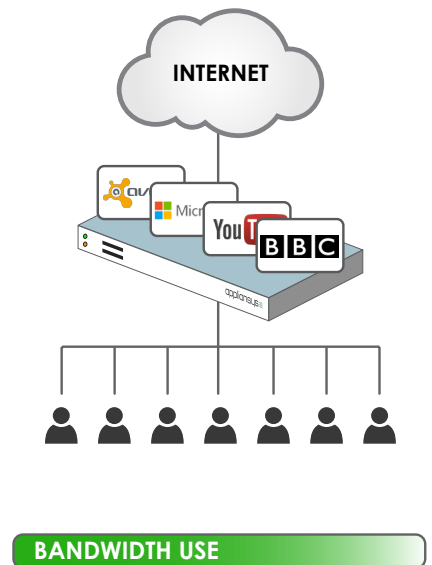
### Save time and eliminate headaches

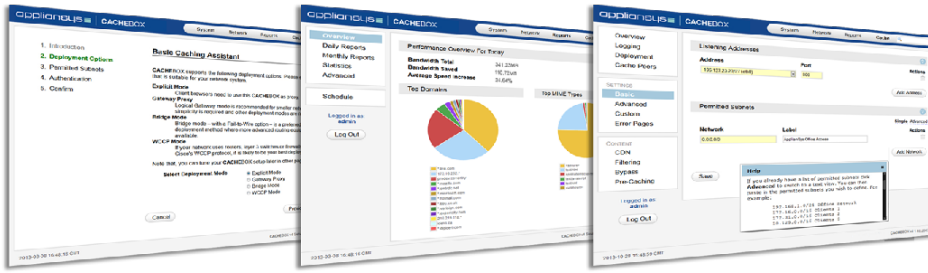
ApplianSys has designed **CACHEBOX** to be quick to deploy, simple to use and easy to maintain. Now you have one less thing to worry about.

### Without CACHEBOX



### With CACHEBOX





Detailed logging and graphical reporting

## FEATURES

### Save bandwidth, save money

- Fully featured caching software support for HTTP
- Video caching (YouTube, Metacafe, Vimeo, Dailymotion, Veoh etc)
- Software update caching (MS Windows, Apple, Avast, Kaspersky etc)
- Off-peak pre-caching of content
- Reserve a portion of disk space for permanently storing specific objects

### Easier to manage

- Secure web administration interface
- Setup and caching assistants
- Configuration adapts to deployment mode
- On-box graphical reporting / scheduled reporting to monitor caching and network performance
- Automated on-box / off-box backups
- Automated alerting
- Multi-lingual interface
- Control and administer multiple users
- Validated and automated data entry
- Operating system runs from read-only industrial CFast memory card
- SNMP support
- Custom ACLs support

### Flexible deployment

- Supports multiple transparent and explicit deployment modes
- Swappable SSD/HDDs
- Clustering, load balancing and hierarchies
- WCCP Support (v.2, GRE and Layer 2)
- IP spoofing
- Firewall with NAT forwarding for networking flexibility
- iKVM remote access technology

### Secure management interface

- Secure HTTPS and SSH management interface
- RADIUS/LDAP authentication

*"During Apple's iOS release, 33% of traffic was to apple.com, but 75% of that was served from cache. At our highest peak in demand, 50% from cache"*

Eli Vaughan, Networks Administrator, Medicine Park, USA

CACHEBOX050 and CACHEBOX100 series are best suited to small ISPs. CACHEBOX110 and CACHEBOX120 come as 1U rack-mountable appliances. CACHEBOX050 has the same features as the '100 series' but is a small form factor device, about the size of a standard laptop. You can use them alone or with larger appliances deployed further upstream.

CACHEBOX210 is perfect for small to medium ISPs, and gives you excellent performance at a low price point.

CACHEBOX230 and CACHEBOX310 use Solid State Drives (SSD), giving you higher performance. Depending on your type of traffic, the '230' can support more than 5,000 users per appliance at 250Mbps, with '310' supporting up to 10,000 users at 500Mbps.

CACHEBOX420 can support more than 20,000 users per appliance, over a 1Gbps bandwidth link. Other vendors only offer this level of performance with bigger, more expensive devices.

## RANGE

	Usage	Form Factor	Performance* (HTTP Requests per second) / Throughput
<b>CACHEBOX050</b>	Very small ISP	Small Form Factor Desktop Unit	400 / 40 Mbps
<b>CACHEBOX110</b>	Very small ISP	19" 1U Rack-mountable	400 / 40 Mbps
<b>CACHEBOX130</b>	Small ISP	19" 1U Rack-mountable	500 / 60 Mbps
<b>CACHEBOX210</b>	Small to Medium ISP	19" 1U Rack-mountable	1,300 / 100 Mbps
<b>CACHEBOX230</b>	Medium ISP	19" 1U Rack-mountable	2,500 / 250+ Mbps
<b>CACHEBOX310</b>	Large ISP High throughput	19" 1U Rack-mountable	3,600 / 500+ Mbps
<b>CACHEBOX420</b>	Large network core High throughput	19" 2U Rack-mountable	6,000 / 1+ Gbps
<b>CACHEBOXCMC</b>	Remote administration of up to 500 CACHEBOXes	19" 1U Rack-mountable	Not Applicable

Note: \*Peak performance achieved under test conditions. Real life performance limits vary, depending on network and traffic characteristics