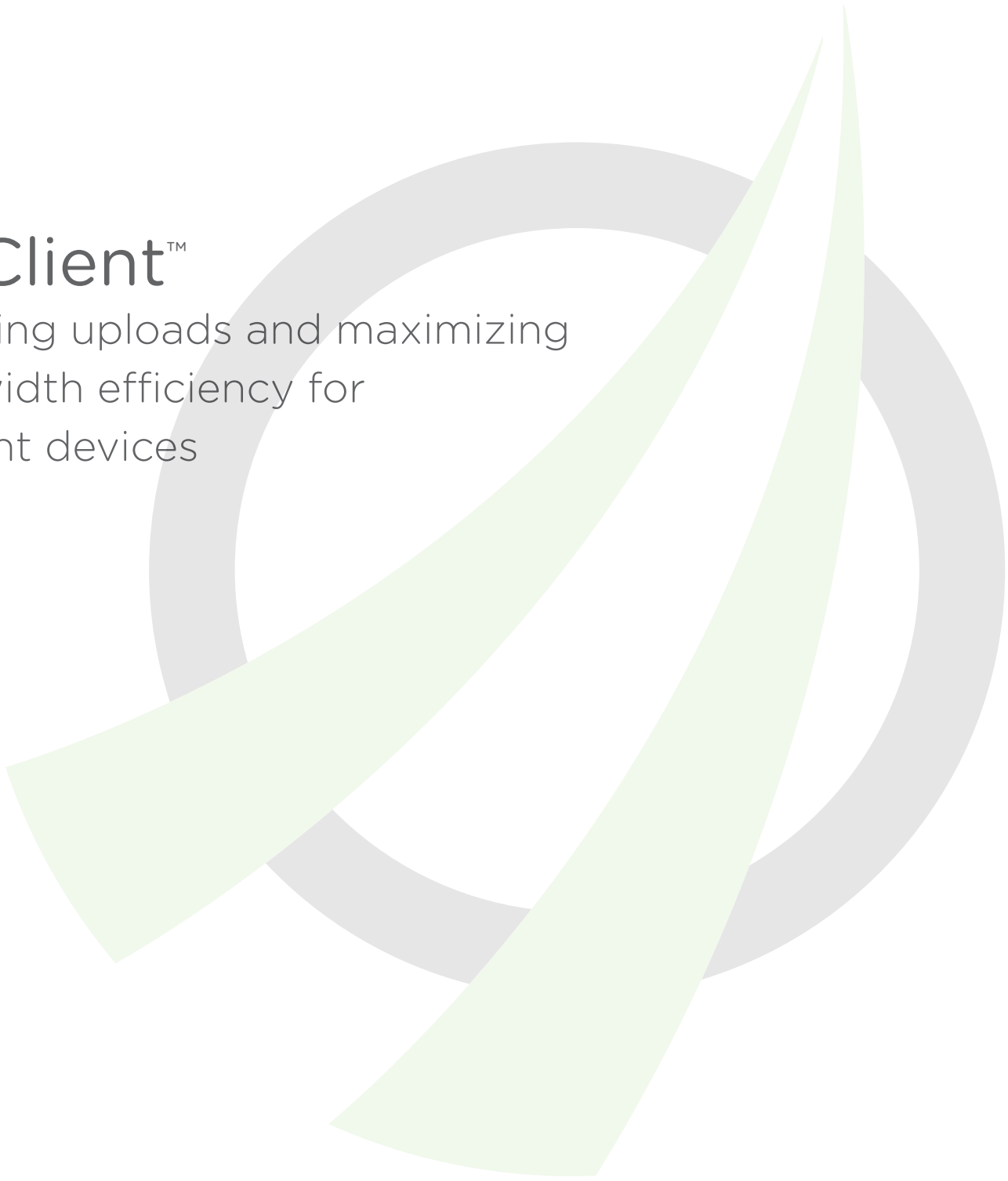
APPEX NETWORKS

LotClient™

Speeding uploads and maximizing bandwidth efficiency for all client devices



LotClient™

Speeds uploads and maximizes bandwidth efficiency

With the rapid growth of social media networks and cloud applications, data uploads become more and more important on client devices such as smartphones, tablets, and laptops. Users upload photos to Facebook and Twitter, send whiteboard snapshots to Evernote, share video clips on YouTube, and back up files on Dropbox. The speed of any upload is often affected by changing network conditions, especially on mobile networks where conditions change quite often. Uploads that are slow or fail altogether can be frustrating to users and cause a bad user experience.

Figure 1.
AppEx LotClient™ Software loaded on client devices

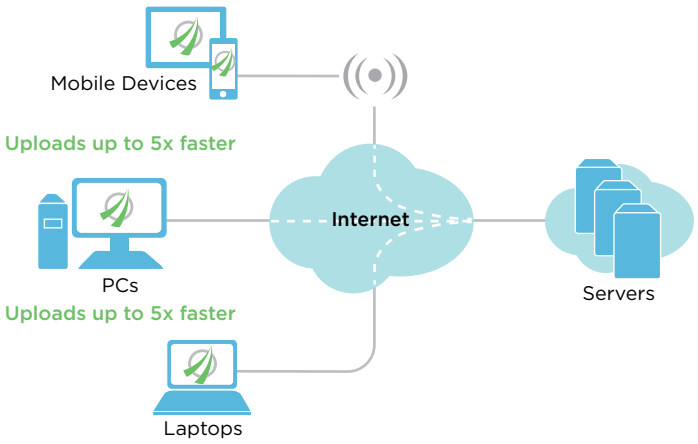
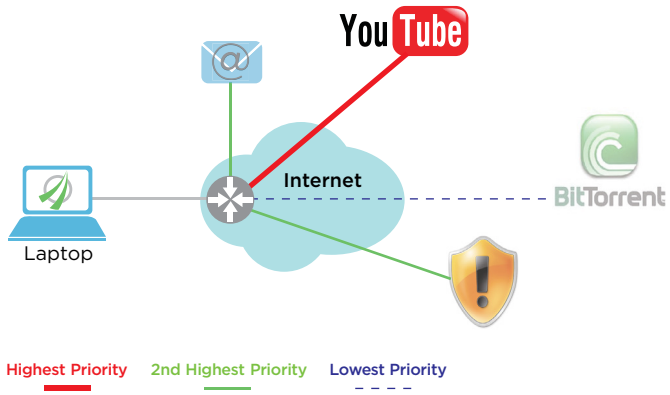


Figure 2.
IPEQ prioritizes real-time traffic



To meet this emerging challenge, AppEx has developed LotClient™ software based on its advanced Learning-based ZetaTCP™ acceleration technology. As shown in Figure 1, LotClient™ can be installed on all kinds of client devices, such as smartphones, tablets, laptops and desktops, and can significantly increase the upload speed while also reducing failure rates. Upload acceleration is achieved asymmetrically from the sending side only.

In addition to upload acceleration, LotClient™ can also prioritize real time applications such as online video and gaming on multi-tasking client devices such as laptops and desktops. Leveraging AppEx IPEQ (IP End-to-end QoS) technology, LotClient™ regulates both inbound and outbound traffic, reduces last mile congestion, and allocates bandwidth by application priority. LotClient™ is configuration free and comes with a default profile to automatically recognize popular real time applications and sites. LotClient™ guarantees bandwidth to high priority applications and also ensures lower priority applications get enough bandwidth to run efficiently.

LotClient™ software currently supports all Microsoft Windows operating systems, including Windows Phone and Android operating systems. It can be easily installed on any Windows device. Android smartphone vendors can preinstall LotClient™ software and create a competitive advantage for their products. LotClient™ software has a very small footprint and is completely platform and application agnostic. Since its release in 2008, LotClient™ software has been installed on millions of devices.

Use Cases

- Installed or pre-installed on PCs and laptops to speed up uploads and improve video streaming quality
- Pre-installed on tablets and smartphones to speed up uploading of pictures and other content to cloud storage or social media sites
- Embedded in home/SMB routers to accelerate uploads and balance Internet access among multiple users.
- Prioritize applications on personal devices for a better user experience
- Optimize access to corporate networks and applications while traveling

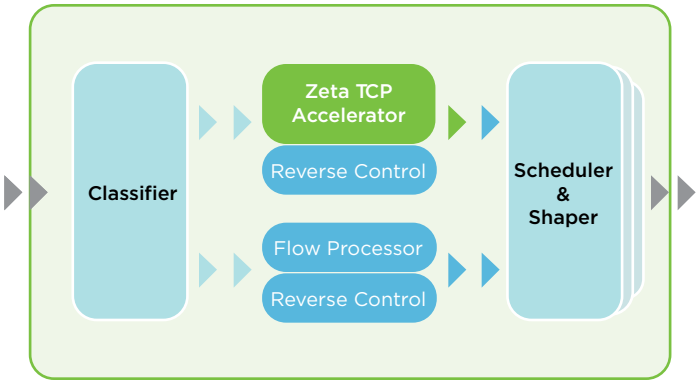
ZetaTCP™ and IPEQ™: the key technologies behind LotClient™

ZetaTCP™

ZetaTCP™ is a series of TCP acceleration algorithms and is one of the core technologies in LotClient™. ZetaTCP™ has a learning capability that enables it to adjust optimizations dynamically based on feedback from real-time data. This enables ZetaTCP™ to quickly adjust to nearly any network condition as needed. ZetaTCP™ boosts TCP performance in the following ways:

- **Improved congestion detection and handling**
- **Accurate and predictive loss-detection with rapid loss recovery**

ZetaTCP™ is designed to be extremely scalable. It is deployed in some of the largest networks in the world and can also be embedded into devices such as smart phones or set top boxes. ZetaTCP™ is also transparent, accelerating the traffic without any modifications to the existing protocol stacks. ZetaTCP™ is deployed asymmetrically on the sending side of the connection (the client in this case) and is able to accelerate the traffic regardless of what variation of TCP is at the other end. Technical details and analysis can be found in the *ZetaTCP™ whitepaper*.



IPEQ™

IPEQ™ is the other key technology in LotClient™. IPEQ™ is a unique traffic control technology, the first in the industry to achieve end-to-end QoS on IP networks in an asymmetric deployment. By reverse-controlling the peers' transmission behavior for both TCP and UDP connections, AppEx IPEQ™ is capable of provisioning incoming data traffic, eliminating congestion and delivering effective QoS, all to achieve the highest bandwidth efficiency for end users. This is the technology that enables prioritization of applications on the client device. Technical details and analysis can be found in the *IPEQ™ whitepaper*.

Summary

Powered by AppEx ZetaTCP™ and IPEQ™ technologies, LotClient™ software significantly improves the overall user experience by accelerating uploads and prioritizing real-time applications such as video steaming and online gaming. It can be installed on all client devices, including smartphones, tablets, laptops and desktops, to provide transparent optimization.

AppEx Networks Corporation started its Learning-Based Acceleration™ development in 2006. After years of commercial deployments and technology refinement, LotClient™ has become the most effective and widely installed software product for client side Internet optimization.

Free Trial

AppEx now offers a risk-free trial of LotClient™ online. Trial customers are entitled to full functionality of LotClient™ and AppEx standard support services. **Click here** to download LotClient™.

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For a free trial of LotClient:
download.appexnetworks.com