

## aCelera Mobile Client: Providing Acceleration for Mobile Workers Wherever Connected

### Overview

Certeon's aCelera Mobile Client software provides application acceleration using aCelera software installed on a laptop computer for an individual user. Installation of this software, running in the background on a system provides the benefits of a history based WAN optimization to mobile users based on their own individual transfer histories. Since the Mobile Client is an optimized version of the standard aCelera Enterprise code based specifically designed for Windows systems the client can interoperate with an aCelera of any type in a peering relationship.

### Use Cases

The primary use case and benefit of the aCelera Mobile Client is that a user can download a large document, modify that document, and then save the document back across a slow WAN connection with only the modified portions of the document being returned. This technology supports the acceleration of a broad collection of the most important file types, including: email, file transfers, files from productivity applications such as Microsoft Office, backups, and others.

### Benefits

aCelera Mobile Client achieves substantial improvements of anywhere from 50% to 98% in effective and perceived throughput through a variety of methods that include: data compression, content-aware data de-duplication using a single instance history store, and by employing a variety of proprietary Certeon protocol handling methods and application blueprints. These methods offer the greatest ability to recognize repetitive data the first time it is sent over the wire, and to eliminate the second passage of the same data by sending over a reference or pointer to that data which is now kept in a history store.

The ability of the aCelera Mobile Client to eliminate repetitive data can profoundly impact not only the performance of a low capacity and high latency network connection, but it can also make a major impact on eliminating costs on expensive connections such as wireless EVDO networks where the customer is being charged on a per MB basis even if the traffic is repetitive. Not only does the mobile user experience LAN-like application performance when opening a file or accessing data that is stored in the system, but the reduction in required broadband infrastructure typically allows the system to pay for itself in a relatively short time.

The aCelera Mobile Client especially benefits those mobile users who work remotely and independently, as well as mobile users that are based out of a remote office. The aCelera Mobile Client software allow a mobile user to benefit from downloads that other users in the remote office have already made by making those files available to the mobile user when they require it. Certeon's approach to creating peering relationships between aCelera history stores allows multiple users' histories to benefit each other, a feature which is a key differentiator from aCelera's competitors. Certeon is able to capture industry leading WAN optimization performance at the Mobile Client's system because the Mobile Client is based on exactly the same code base and uses the same methods as any other aCelera.

### Portability

- Application acceleration for laptops
- Accelerated access to data and applications over the WAN from any location

### Minimum Client Operating Systems

- Windows 7
- Windows Vista
- Windows XP

### System Requirements

- CPU: Intel Core 2 Duo – 1.5 Ghz or equivalent
- Memory: 2 GB RAM
- Hard Disk: 12 GB Free Disk Space
- Network Adapter: Ethernet, 802.11 wireless, and cellular EVDO or HSDPA technologies.

### Manageability

- Centralized management with template-based configuration and software updates

### Security

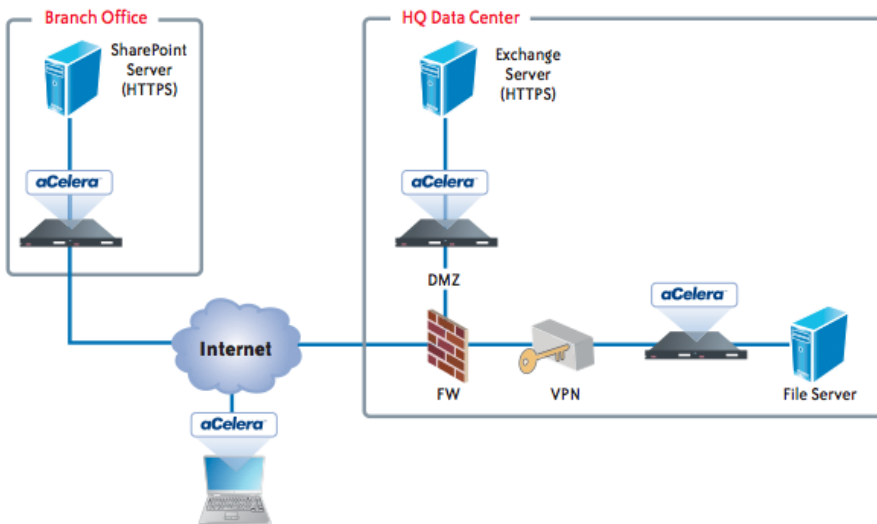
- Supports SSL acceleration, which is critical to maintaining confidentiality and compliance standards

**Mobile Client Architecture**

The aCelera Mobile Client software installs as a Windows Service; and the System Tray applet runs as a separate process. The aCelera Mobile Client restarts if either of these processes dies. Both the installation and the driver for a aCelera Mobile Client have been signed as necessary as a participant in the Microsoft certification program.

A mobile client accelerates the same applications as the aCelera Enterprise Virtual Appliance and the end user experiences similar performance gains. However the aCelera Mobile Client is configured to only accelerate outbound connections, inbound connections are not accelerated. Thus for example, the Mobile Client can accelerate SSL traffic to remote SSL servers, but does not accelerate incoming SSL requests. There is one exception to this rule: FTP traffic is accelerated in both directions.

All network traffic passes through the aCelera Mobile Client and is either: accelerated, passed through, or dropped. The determining factor in deciding on the behavior is the communication port used for the traffic, which correlates with the application type. The Mobile Client is compatible with a variety of Virtual Private Network Environments, including: Cisco VPN, Microsoft PPTP, Nortel Contivity, Juniper SSL and Netscreen, and OpenVPN.



aCelera Mobile Client software can be deployed on laptops anywhere on the network or via VPN without additional servers or hardware appliances.

**About Certeon**

Certeon is the application performance company. With Certeon, enterprises and cloud providers successfully realize key initiatives including consolidation, virtualization, replication and application SLAs. Certeon’s aCelera is the only software-based product that is hypervisor agnostic, hardware agnostic and cost effective. aCelera’s ability to provide automated, secure and optimized access to centralized applications at the lowest possible TCO make aCelera a cornerstone of enterprise and cloud provider infrastructures. Founded in 2003, Certeon is a private company, headquartered in Burlington, Massachusetts.



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