



AppGate SSL Module

The AppGate SSL module from Cryptzone is an optional module that can be installed on the AppGate Security Server. It allows users to access web-based services and file shares in a secure way from any web browser without the need for client software. The SSL module offers users secure access to resources in a truly client-less fashion from almost all types of platforms.

Access web based services in a secure way from any web browser and on almost any type of device

Connecting to web apps securely without downloading software

Even though the standard client for the AppGate Security Server from Cryptzone is easy to install and has a small footprint, there are cases when no client is needed on the user's workstation, for example when the user needs secure access to web based services only; and there are instances when it is not possible to install a client, for example when using a shared computer in an airport or internet café. The AppGate SSL module makes it possible for the user to use the built-in SSL support in the web browser to access services securely.

With the AppGate SSL module, users can reach web-based applications on the internal network regardless of their location and type of system being used. However, in order to access non web-based services, the standard AppGate client must be used. This is required because the AppGate client will capture the insecure traffic sent from applications, encrypt it and send it to the AppGate Security Server in a secure way. The web browser is capable of encrypting its own traffic via its built-in SSL support and can therefore, to some extent, also be trusted by the AppGate server.

There are some pros and cons with web-based access. A web-based e-mail client such as Outlook

Web Access (OWA) requires that the user is connected at all times, whereas a pre-installed mail client such as Microsoft Outlook allows the user to work off-line at all times. However, web-based access to mail offers other advantages and may, for example, enable access from non-corporate or other mobile systems.

With the SSL module, the AppGate system supports both ways of working. It supports secure web-based access as well as more traditional and more flexible access using the AppGate client to work securely with all types of applications.

For more information about the AppGate client software, please see the "AppGate Supported Clients" datasheet.



Secure access from any location

The SSL module is useful in a number of situations, enabling the user to access web applications securely regardless of their location:

- When the client system does not belong to the organization or when it is not possible to download and run any client software on the system.
- When, for security reasons, it is necessary to limit access to a single web based application such as e-mail. A typical example is when a user needs to read e-mail on an airport or café PC.
- When only web-based applications need to be accessed. The AppGate client is a light-weight application with a small footprint, but it is even easier if nothing needs to be downloaded to the device.

One security system for all access

With AppGate there is no need to have different security systems for people using different methods to access to the network. AppGate enables all user access to be managed from one system, whether the user requires web-based or non web-based applications, or whether they are using the SSL module, full AppGate client or mobile client. This simplifies network configuration and administration, and will in the end also lead to increased security.

Granular Access Control

The AppGate system gives system administrators granular control over which services may be accessed via the SSL module, and which services can be accessed only through the standard AppGate client.

It is easy to create almost any policy. For example a policy can be defined so that when a user is working remotely, two-factor authentication is required to use OWA, while for internal users, a password could be considered sufficient authentication for the same service to be available.

AppGate SSL Module Technical Information

Protocols:	SSL v2.0, SSL v3.0, TLS v1.0.
Ciphers:	AES128-SHA AES256-SHA DES-CBC3-SHA DHE-RSA-AES128-SHA DHE-RSA-AES256-SHA EDH-RSA-DES-CBC3-SHA RC4-MD5 RC4-SHA

Services, caching and authentication

The AppGate server contains a web proxy that can be used to control access to web based services. It allows access to multiple internal web servers once the user has been authenticated and authorized. The role-based access control concept makes it possible to restrict access down to individual web pages, if desired.

The AppGate Security Server also contains functionality to support access to files on protected file servers via the web browser in a secure way. Users who are authorized to access, read, upload or download files can do so easily just using a web browser. AppGate also allows users to access Microsoft file shares not just from Windows platforms but from any type of platform including mobile phones.

The AppGate Security Server marks all data sent to the web browser as "non cacheable", which means that browsers should refrain from storing data in their local cache. There is not a 100% guarantee that the web browser will honor this and as always, when security is involved, it is up to the system owner to judge in what situations the service should be available to the user.

Web-based SSL access ensures the highest possible compatibility with network and firewall configurations. The communication is insensitive to network address translation, NAT, which may be performed by some firewalls.

The AppGate system supports many authentication methods and most of them are also supported by the web browser and the SSL module. The AppGate Security Server also supports concurrent use of different authentication methods, which makes the system very flexible.



Cryptzone solutions mitigate information security risks identified in four key areas of Policy Compliance, Content Security, Secure Access and Endpoint Security.

The AppGate solution from Cryptzone enables organizations to provide controlled access for all authorized users regardless of their location whilst also ensuring network resources are protected against internal and external threats. This award-winning technology combines an application layer firewall with device security and granular access control system in one easy to use, cost effective system.

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