Cloudpath

Automated Certificates
For **Google Chromebooks**

Simplifying Certificates for Chromebooks

Because Google Chromebooks are designed to be used primarily when connected to the Internet, typically via Wi-Fi networks, security is a high priority. But ensuring every device receives the appropriate policy-associated certificate without IT overhead has been a challenge, especially in educational environments where the user population is large and IT support resources are limited.

The ideal solution would be one that automatically distributes user and device certificates to both IT-managed and unmanaged (BYOD) Chromebooks—which is exactly what XpressConnect ES from Cloudpath Networks does. It extends the benefits of certificates to Chromebooks in environments with an existing Public Key Infrastructure (PKI) without compromising the integrity of the PKI. And for environments without certificates today, XpressConnect ES makes it simple to unlock the usability, management and security benefits of certificates.

Providing Automated Device Enablement

Using an Automated Device Enablement (ADE) approach to securely onboard BYOD and IT-owned devices, XpressConnect ES from Cloudpath brings simplicity and cost efficiency to the implementation of certificate-based network access and security policies across a wide array of devices.

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In the case of Chromebooks, once installed in the Trusted Platform Module (TPM), certificates for Chromebooks are available for a wide array of uses, including certificate-based Wi-Fi (WPA2-Enterprise with EAP-TLS), web SSO authentication, web two-factor authentication and more.

With support for issuing certificates from a variety of sources, including XpressConnect's built-in certificate infrastructure, Microsoft Certificate Authorities, and managed PKI, XpressConnect ES ensures every device receives the appropriate policy-associated certificate without IT overhead.

Securing Both Managed and Unmanaged Devices

For IT-managed Chromebooks, XpressConnect ES deploys both user and device certificates via a Chrome extension provisioned through the Chromebook management console. Whether tied to the user or the device, the certificates are TPM-backed, which means they are burned into hardware for maximum protection.

For unmanaged Chromebooks, XpressConnect ES provides a web portal for self-service and automated installation of the certificate along with configuration of related services, such as WPA2-Enterprise Wi-Fi using EAP-TLS.

Chromebook support in XpressConnect ES adds to the long list of supported devices, which includes managed and personally owned (BYOD) devices running Windows, Mac OS X, Linux, Apple iOS, Android, Windows Mobile and more.

Key XpressConnect ES Features for Chromebook

- Support for managed and unmanaged Chromebooks

- Support for device and user certificates

- Integration with Chrome Management Console

- Support for Single Sign-on Authentication via Google

- Support for Active Directory and LDAP

- Available in the cloud or on-premise

About Cloudpath Networks

Cloudpath Networks, Inc. provides software solutions and services that simplify the adoption of standards-based security, including WPA2-Enterprise, 802.1X and X.509, in diverse BYOD environments.

Cloudpath was the originator of the secure, automated onboarding model for personal and unmanaged devices, and our XpressConnect Enrollment System won the *Best of Interop—Wireless & Mobility* award and was named a finalist for the GSMA *Global Mobile Awards*. From educational institutions, to enterprise, to service providers, to government agencies, Cloudpath services are deployed worldwide for millions of devices every year.

For More Information

To learn more about Cloudpath's Chromebook solution, visit www.cloudpath.net, email info@cloudpath.net or call us at +1 303.647.1495 and hear about successful deployments with leading organizations worldwide.