Duo Security – InCommon Partnership

Easy and Secure Campus-Scale Two-Factor Authentication

InCommon® **MULTIFACTOR**

A service of **INTERNET2**

www.incommon.org/duo

Overview

InCommon and Duo Security have formed a partnership to bring phone-based two-factor authentication to the higher education community with a low-cost site license program.

The program is open to any higher education institution in the U.S. and takes advantage of InCommon's trust services. InCommon participation is required. Internet2 members receive a discount.

The Problem: Plain Old Passwords

By themselves, plain old passwords aren't very secure. We use them for critical services, but we know that they're often targeted for brute force dictionary attacks, sniffing, and phishing.

We can try to make them harder to guess by making them longer and more complex, and making users change them more often. That often just frustrates users and can drive your help desk staff crazy.

Two-Factor Authentication

We can make passwords (something you know) more secure by requiring a "second factor" for login. This second factor could be something you have (such as a cryptographic hardware device), or something you are (fingerprints, iris or retinal scan, etc.).

We might even consider using a second channel—such as a mobile phone—so that even if your computer or IP network has been compromised, the hacker will be thwarted by not having access to your mobile phone or cellular network.

The Duo Security Solution

Duo Security leverages something most users already have: their phone. When it's time to log in, users (1) enter their username and password as they normally would, then (2) they're contacted by Duo via their phone. After confirming the login (3) users will be logged in, just as they normally would. No muss, no fuss, no complexity.

Benefits

Cost Savings – One low price covers all faculty, staff, and students (hospital staff not included but may be added for a supplemental fee based on hospital bed count).

Comprehensive Solution – The affordable campus site license means you can deploy Duo as widely as you choose.

No Additional Hardware – Duo leverages a user's smart phone. Users enter their username and password at the login screen, then click "accept" after receiving a message on their smart phone.

Cost

You can license Duo for all faculty, staff and students (excluding hospital staff) at a small college (less than 2,500 students) for less than $5,000 per year; similarly, licensing Duo at a university of 20,000 to 34,000 students would be less than $50,000 per year.

About Duo Security

Duo Security two-factor authentication is easy to deploy, use, and manage. You can easily protect accounts by leveraging users' mobile phones for secondary authentication. Every day, more than 500 organizations with users across 80 countries rely on Duo to secure their logins and transactions.

Duo Security Partnership FAQ

The complete FAQ is linked from www.incommon.org/duo

Licensing and Pricing

Can I try Duo before signing up for a site-wide license?
Yes, anyone can directly sign up for the Duo Security Personal plan, which allows for up to ten users at no cost: www.duosecurity.com

Do I need to be an InCommon participant to sign up?
Yes, to take advantage of this program, you must be an InCommon participant. However, you are not required to take advantage of any other InCommon program (Federation, Certificates, or Assurance).

Are all InCommon participants eligible for this program?
Only higher education participants are eligible.

My institution is an Internet2 member. Do we qualify for the InCommon Duo program?
Being an Internet2 member gives you a 10% discount on the cost of a Duo site license, but you also need to be an InCommon participant to sign up for Duo. The InCommon Participation Agreement is key to the administration of this program.

Do I have to be a member of Internet2 to participate in the InCommon Duo program?
No, but Internet2 members receive a 10% discount.

Can we license just a subset of our campus community (such as only the law school)?
No, the Duo program is an attractively priced campus-wide site license. A university with an associated hospital can purchase a license supplement to cover hospital staff.

How do I get more information or sign up?
Additional information is at www.incommon.org/duo. You can also send email to info@incommon.org.

Deployment

What's the difference between Duo Mobile and Duo Push?
Duo Mobile is a mobile application for smart phones that generates a one-time password (i.e., a secret, random-looking number on the user's smart phone), which the user then types into the application that requires authentication.

Duo Push is a special feature of the Duo Mobile application that uses mobile push services to authenticate the user right on the smart phone, without the need to type the one-time password into the application.

What platforms does the Duo Mobile app run on? What about Duo Push?
The *Duo Mobile* app runs on these platforms: Google Android, Apple iPhone, RIM BlackBerry, Java J2ME, Palm WebOS, Symbian OS, and Windows Mobile.

Duo Push, which is a special feature of the Duo Mobile app, is available on Google Android, Apple iPhone, and RIM BlackBerry only.

What if a user does not have a smart phone?
A variety of options exist to accommodate users without smart phones. An ordinary mobile phone, or even a traditional desktop phone, can be used to authenticate with Duo. Traditional hard cryptographic one-time password tokens are also available.

What services can be secured with Duo? Will it work for the web? Our SSL VPN? Shell access to Unix hosts?
Duo integrates with virtually all popular web applications, SSL VPNs, and Unix applications. See the Duo solutions and documentation pages at www.duosecurity.com

About InCommon

InCommon serves the U.S. education and research communities, supporting a common framework of trust services for the safe sharing of online resources. InCommon operates the U.S. trust federation for research and education, and provides other trust-based services.

Any accredited two- or four-year higher education institution, as well as research organizations (such as U.S. government labs and facilities), can join InCommon. Higher education and research organization participants can sponsor their business partners.