Overview of Duo 2FA implementation



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Unit Liaison Meeting, May 11



Agenda

- Overview
- Timeline
- Duo Options & Benefits
- Pre-enrollment Planning
- Working Together
- Short Enrollment Demo
- Appendix: Authentication Options & Enrollment Screenshots



New U-M IT Security Strategy

- One university-wide security program
- Focus on the most sensitive information first
- Make security the easy choice
- Promote university-wide security culture and capabilities
- Collaborate with faculty to contribute to the domain



CY2016 2FA Objective & Benefits

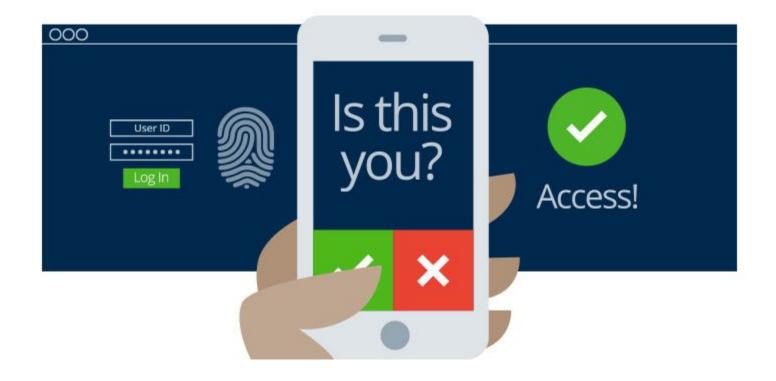
To replace MTokens with a new 2FA solution and then expand to U-M restricted and high-sensitivity information

Benefits

- Improve University security posture to secure personal data and sensitive university data
- More flexible system with advanced authentication methods, including smartphone app, SMS text & more
- Use of a single 2FA solution across campus



Two-factor with Duo





Duo 2FA Options

Authentication	Push	Passcodes	SMS Passcodes	Press any key on your phone to authenticate. Phone Callback
Description	Duo sends a login request to your phone. Just tap Approve to authenticate.	Generate a passcode when needed using the Duo app.	Receive a batch of passcodes via text message.	Duo calls your phone. Just press any key to authenticate.
Platforms	iOS Android Blackberry Windows Mobile	All Push platforms, plus Palm, Windows Mobile	All phones with SMS	All phones
Usable without WiFi or Cellular Service		/	✓	✓

^{*} Hardware tokens are available if you have a specific business need

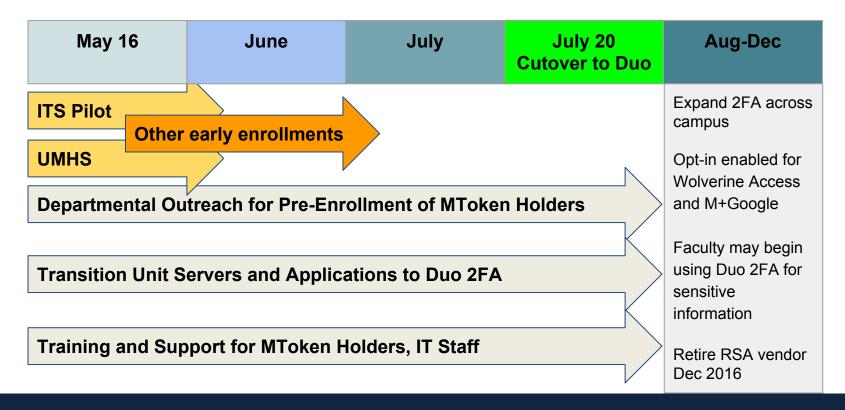


Hardware Tokens

- Current MTokens not compatible with Duo solution
- Must be replaced with new Duo hardware tokens
- Units responsible for cost of hard tokens
- Available for purchase at the Computer Showcase (\$25)



2FA Pre-Enrollment Timeline





Pre-Enrollment Activities

- 1. Working with Unit/School/College to
 - a. Pre-enroll MToken Holders
 - b. Pre-enroll any departmental servers or applications
- 2. Work with IT, Admin, and IT Security Staff in each area
- 3. Send notices centrally with option for unit to communicate
- 4. Provide Communications Toolkit, eg email, digital signs
- 5. Pre-enrollment drop-in stations around campus
- 6. Training and online support with videos, how-to's



Working Together

- Champion the new Duo 2FA option for smartphones, Duo Mobile
- Encourage early enrollment to minimize disruption for your staff
- Coordinate with your area's <u>NextGen Unit Representative</u> and <u>Security</u> <u>Unit Liaison</u>.
- If you're interested, volunteer to assist at a pre-enrollment drop-in session in your area.



Questions?

2FA.Project.Contact@umich.edu

New 2FA Option From Duo http://www.itcs.umich.edu/identity/2factor/

MFA Project Website: http://its.umich.edu/projects/mfauth/



Appendix

Authentication Methods & Enrollment Screenshots



Authentication Methods



Push Authentication

Easy, One-Tap Authentication

Users can quickly approve an auth request by pressing a single button. Or, report fraud to admins by tapping the red button.

Generate Codes for Any Two-Factor Service.

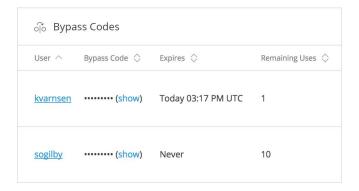
The application generates TOTP passcodes for login and can receive push notifications for easy, one-tap authentication on your iPhone, iPad, or Apple Watch.

This is the preferred method, and easiest to use!



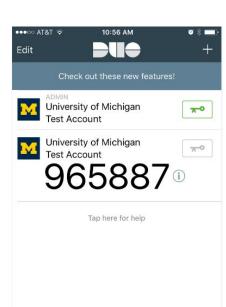


Passcodes



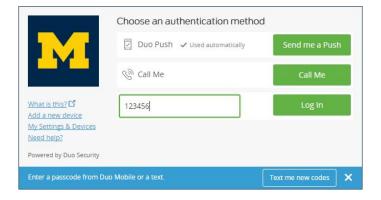
Generate bypass codes with Duo's administrative interface or API - no internet or data connection required Single, event or time-based codes can also be generated for temporary contractors that may only need one-time or limited access.

To ensure security, codes expire after being used the allowed number of times or after 12 hours



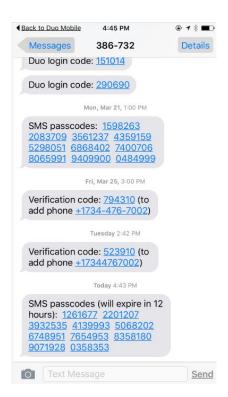


SMS Passcodes



For users without Internet connectivity, authenticate easily with Duo Security's SMS passcode method. After completing primary authentication, Duo's service sends you a one-time passcode via SMS on your phone.

Simply type in the passcode and press enter to authenticate and access your accounts. Users can have new passcodes sent to their phones at any time.





Telephony

For users without a smartphone, authenticate easily with Duo Security's phone callback method. Call any phone registered to a user and let them authenticate by pressing a key.

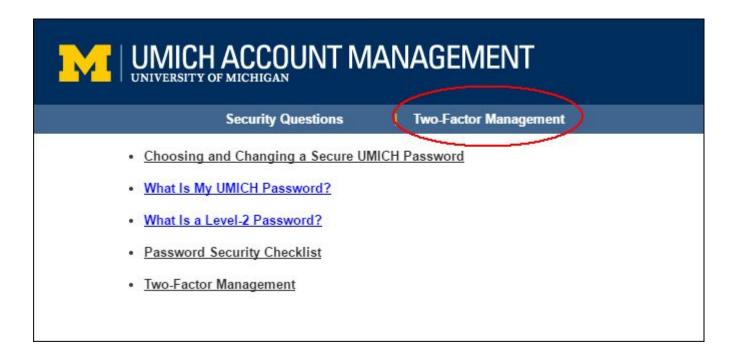
Use smartphones, mobile phones or landlines to authenticate.





Enrollment Screenshots

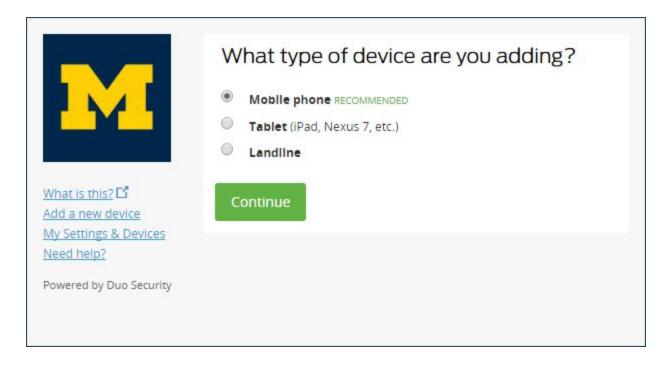




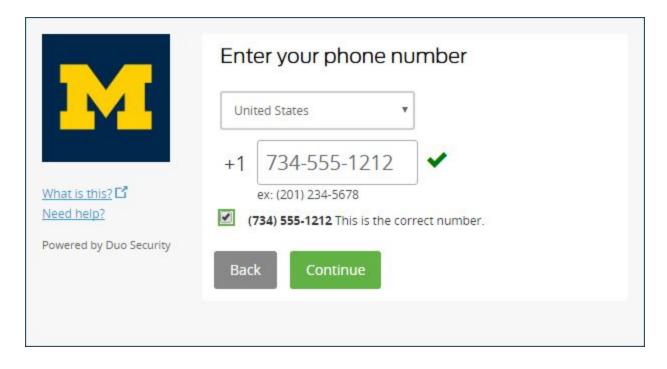








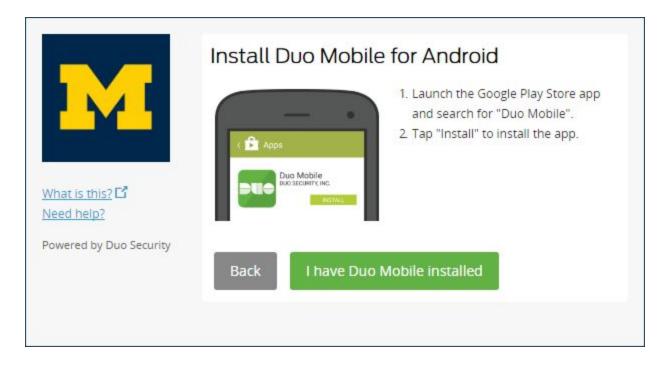




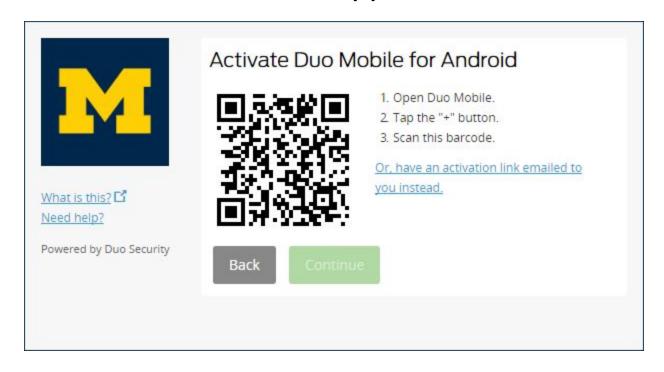




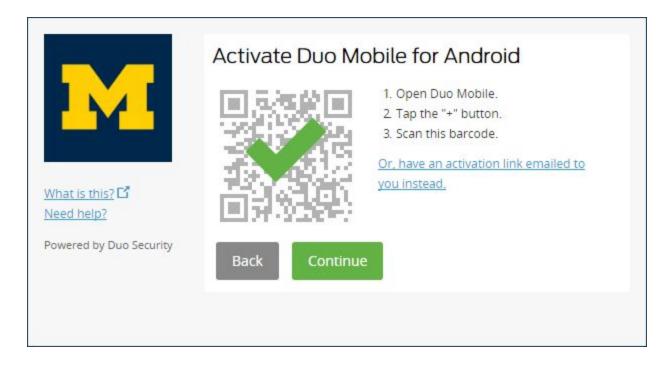




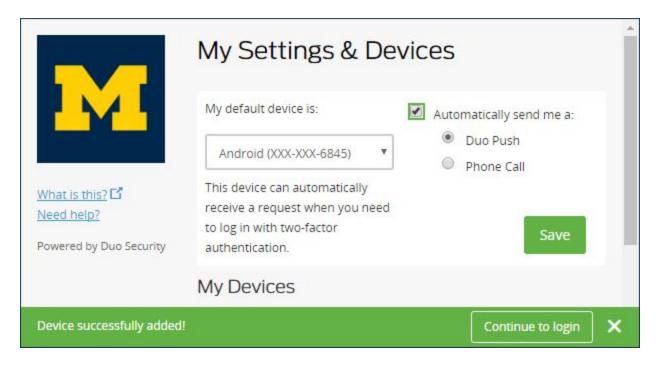














Authentication with the Duo Mobile App



Authentication Required

Please enter your Login ID (uniqname or Friend ID) and password to continue.

Need a Login ID?

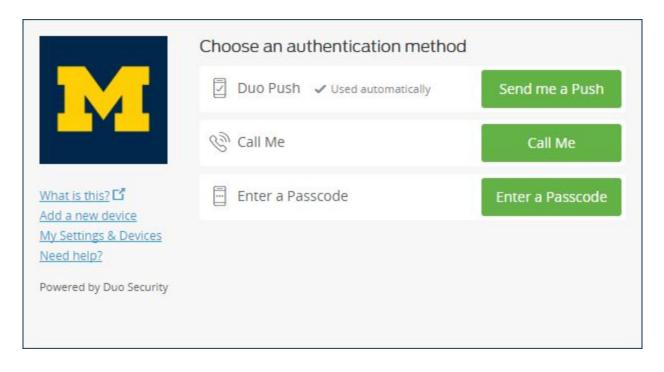
Create a Login ID now.

Important Security Tips





Authentication with the Duo Mobile App





Authentication with the Duo Mobile App



