DUO Two-Factor Authentication (DUO 2FA) User Guide for O365 Applications Login

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Document History						
Version	Update Date	Changes				
1.0	2018-05	Initial version				
1.1	2018-06	Added Section 1.3				
1.2	2018-07	Added point 1.1.i and Section 1.2				
		Updated Section 1.3				
1.3	2018-08	Updated Section 1.3 note 1 subject				
1.4	2020-08	Updated Section 1.2 & 1.3, include "native mail client on Mac				
		OS 10.14 or above" as supported client				

1. About O365 Logon with Duo 2FA

1.1. Prerequisites

- i. Updated clients to a version which supports modern authentication.
- Enrolled O365 user account & his/her mobile device via Self Service Portal (<u>https://duo.itsc.cuhk.edu.hk</u>).
- iii. An enrolled mobile device with 'Duo Mobile' app installed.

1.2. Supported Clients

OS	Office / Mail clients
Windows OS:	- Office 2016
	 Office 2013 with modern authentication registry key updated
Mac OS:	- Native mail client on Mac OS 10.14 or above
	 Outlook 2016 for Mac (to be downloaded from Apps store)
iOS:	 iOS 11 or above + native mail client (bundled in iOS)
	 iOS 10 or above + Outlook App (to be downloaded from apps store)
Android OS:	- Android 6 or above + Outlook App (to be downloaded from apps store)

1.3. Behaviors Change

After you enrolled your account and device in Duo Self-Service Portal, the login behavior <u>for</u> <u>supported clients</u> will be changed as below:

- i. Redirected to CUHK login page;
- ii. Requires your login with your
 - Login ID (i.e. alias@cuhk.edu.hk)
 - OnePass Password (1st factor)
 - Duo push response / one-time passcode (2nd factor)

Details are described in below table.

And, you have to follow the User Action to trigger the change in order to use DUO 2FA for O365 login.

Implementation Item:DUO 2FA for Staff & StudentsAffected User:Enrolled Staff & Students

	Web Browser		Office Client	on Windows OS		Mac OS		Mobile (iOS)		Mobile (Android OS)	
	Outlook Web Access (OWA)	Office 2016	Office 2013 <u>with</u> Modern Authentication Registry Key Updated	Office 2013 <u>without</u> Modern Authentication Registry Key	Office 2010	Native mail client on MacOS 10.14 or above (bundled in Mac OS)	Outlook 2016 for Mac (to be downloaded from apps store)	iOS (11 or above) native mail client (bundled in iOS)	iOS (10 or above) Outlook App (to be downloaded from apps store)	Android (6.0 or above) native Gmail client (bundled in Android OS)	Android Outlook App (to be downloaded from apps store)
Support Modern Authentication?	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes
Behavior Change	CUHK Login page + DUO login (DUO Push, passcode)	Redirect to CUHK Login page + DUO login (DUO Push, passcode)	Redirect to CUHK Login page + DUO login (DUO Push, passcode)	Can't login since DUO requires clients support modern authentication	Can't login since DUO requires clients support modern authentication	Redirect to CUHK Login page + DUO login (DUO Push, passcode)	Redirect to CUHK Login page + DUO login (DUO Push, passcode)	Redirect to CUHK Login page + DUO login (DUO Push, passcode)	Redirect to CUHK Login page + DUO login (DUO Push, passcode)	Can't login since DUO requires clients support modern authentication	Redirect to CUHK Login page + DUO login (DUO Push, passcode)
User Action	Nil	Clear Credential Manager [note 1] in order to trigger DUO 2FA login	Clear Credential Manager ^[note 1] in order to trigger DUO 2FA login	Update Modern Authentication Registry Key [note 3]	Update to supported Office version	Recreate email account in order to trigger DUO 2FA login	Clear Keychain Access ^[note 2] in order to trigger DUO 2FA login	Recreate email account in order to trigger DUO 2FA login	Recreate email account in order to trigger DUO 2FA login	Download and switch to use Outlook App	Recreate email account in order to trigger DUO 2FA login

[Note 1: Steps to clear Credential Manager in Windows OS]

- 1. Quit all Office applications.
- 2. Click Start > Control Panel > User Accounts > Credential Manager > Windows Credential. (Or, click Start > Control Panel > Credential Manager > Windows Credential)
 - a. Select each item whose type is **MicrosoftOffice16_Data:ADAL:<GUID>**, and then press **Delete**. Repeat this step to delete all items for your account.
- 3. Close the Credential Manager window and restart the MS Outlook, it will redirect to CUHK Login page and request for DUO 2FA login.

[Note 2: Steps to clear Keychain Access in Mac OS]

- 1. Quit Outlook and all other Office applications.
- 2. Start Keychain Access by using one of the following methods:
 - a. Select the Finder application, click Utilities on the Go menu, and then double-click Keychain Access.
 - b. In Spotlight Search, type Keychain Access, and then double-click Keychain Access in the search results.
- 3. In the search field in Keychain Access, enter **Exchange**.
 - a. In the search results, select each item to view the **Account** that's listed at the top, and then press **Delete**. Repeat this step to delete all items for your Exchange account.
- 4. In the search field, enter **adal**.
 - a. Select all items whose type is MicrosoftOffice15_2_Data:ADAL:<GUID>, and then press Delete.
- 5. In the search field, enter office.
 - a. Select the items that are named Microsoft Office Identities Cache 2 and Microsoft Office Identities Settings 2, and then press Delete.
- 6. Quit Keychain Access and restart the Outlook 2016 for Mac, it will redirect to CUHK Login page and request for DUO 2FA login.

[Note 3: Steps to update Modern Authentication Registry Key for Office 2013]

1. Please refer to <u>User Guide for O365 Services Login with Modern Authentication</u>.

2. Login O365 applications with Duo 2FA

Steps:

- i. Open the supported Office application or email client, it will be redirected to CUHK Login page.
- ii. Input your O365 credential in the fields for
 - Login ID, i.e. alias@cuhk.edu.hk and
 - **OnePass Password**, i.e. the 1st factor

then click Sign in.



- iii. Then, you will be asked to provide the 2nd factor. Follow either one of the following step to continue.
 - Automatically send a Duo Push

During the Device Enrolment in the Self-Service Portal, if you selected "Automatically send this device a Duo Push", a Duo Push notification will be sent to your enrolled mobile automatically by default when you log in.



Open the DUO Mobile App on your mobile device, then **tap on the notification message**, a Login Request with the information of requesting source is displayed.



Tap **Approve**, the O365 applications should be login successfully.

• Select 'Send Me a Push'

During the Device Enrolment in the Self-Service Portal, it will set "Ask me to choose an authentication method" by default when you log in.

	ABOUT 2FA	ENR	OLL DEVICES	BYPASS CODE	LOG O
te: If you don't wa	nt to provide mobile	ohone nun	nber, you may select	'Tablet' instead during	device enrollmer
	My S	Settings	& Devices		^
L.	j ć	iOS		Device Opt	tions
	+ <u>Add</u>	another de	vice		
<u>What is this?</u> <u>Need help?</u>	ď				
Powered by D	uo Security Defa	ult Device:	iOS		~
	Wh	en I log in:	Ask me to choose ar	authentication method	~



So, when you login O365 applications, you can click **Send me a Push** button for getting a Duo Push notification.

Open the DUO Mobile App on your mobile device, then **tap on the notification message**, a Login Request with the information of requesting source is displayed.



Tap Approve, the O365 applications should be login successfully.

• Select 'Enter a Passcode'

During the Device Enrolment in the Self-Service Portal, it will set "Ask me to choose an authentication method" by default when you log in.

	ABOUT 2FA	ENR	OLL DEVICES	BYPASS CODE	
Note: If you don't wan	t to provide mobile (ohone nur	nber, you may select	'Tablet' instead durin	g device enrollment
	My S	ettings	& Devices		^
Les a	ć ć	iOS		Device O	ptions
GUT.	+ <u>Add</u>	another de	vice		
<u>What is this?</u> C <u>Need help?</u>	3				
Powered by Du	o Security Defau	ult Device:	iOS		~
	Whe	en I log in:	Ask me to choose ar	n authentication method	i v

So, when you login O365 applications, you can click Enter a Passcode button.



You can get the <u>passcode</u> from your Duo Mobile App.

Open the Duo Mobile App on your mobile device, then **tap on the key icon** next to your account, a one-time passcode is generated.



Input the passcode in the login page, then click Log In button.



The O365 applications should be login successfully.

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Class Notebook	Sway										