

# Problem Statement

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To reduce the lengthy steps of existing WIFI registration & connection by creating an independent wifi connector getaway app. The Wifi and its certificate will not dependent on the app after successful connection. The Wifi will remain active although the app are closed

## Scope of Work

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Platform to cover:-

1. Apple iOS
2. Apple MacOS
3. Android OS
4. Microsoft Windows 7

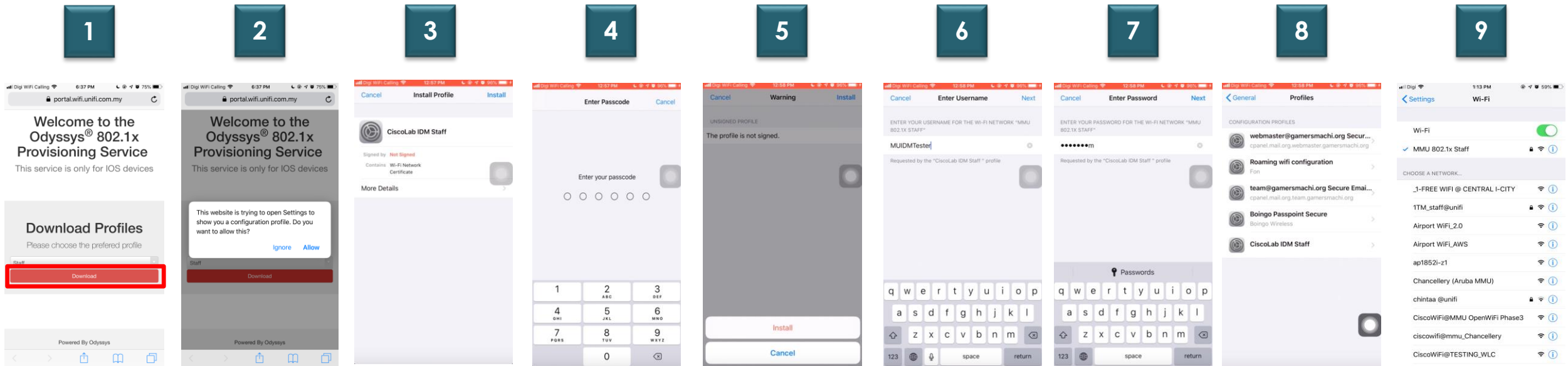
Mobile App submission:-

1. Apple Developer Enterprise Program
2. Google Store

Site to cover:-

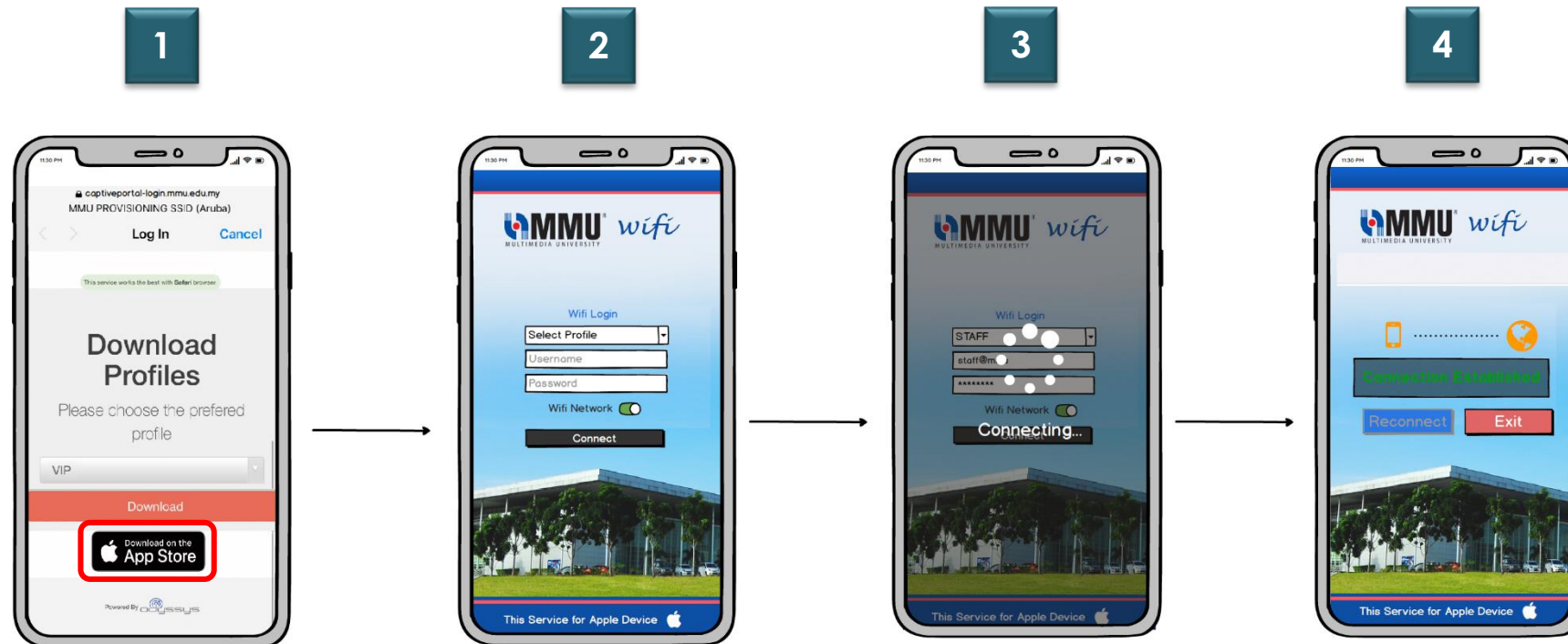
1. MMU Cyberjaya
2. MMU Melaka

# Existing Solution (Apple iOS)



1. **Screen 1** – Access to Portal to download iOS mobileconfig using Safari. Select user category and tap 'Download'.
2. **Screen 2** – User has to tap 'Allow' to go to Install profile screen.
3. **Screen 3** – This is the install profile screen. User to tap 'Install' at the top right
4. **Screen 4** – Enter your device passcode
5. **Screen 5** – Tap 'Install' to install wifi condifugation Profile.
6. **Screen 6** – Enter IDM username and tap 'Next'.
7. **Screen 7** – Enter IDM password and tap 'Next'
8. **Screen 8** – Profile installation is complete
9. **Screen 9** – Now connect to the Wifi, User will be connected automatically, and able to surf.

# Propose Solution (Apple iOS)



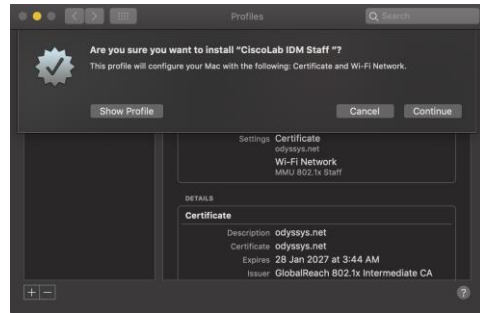
1. **Screen 1** – User Download and Open App.
2. **Screen 3** – User Select Profile and Enter IDM password and tap 'Connect'
3. **Screen 4** – System programmatically installed all necessary certificates in configuration preference.
4. **Screen 5** – System displays Success Connection and user able to surf the internet.

# Existing Solution (Apple MacOS)

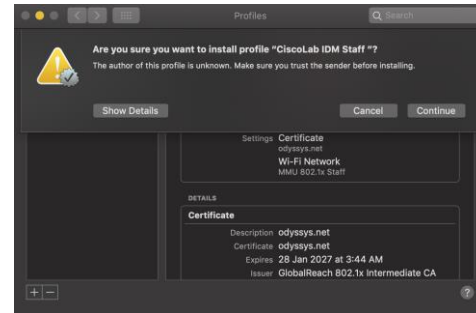
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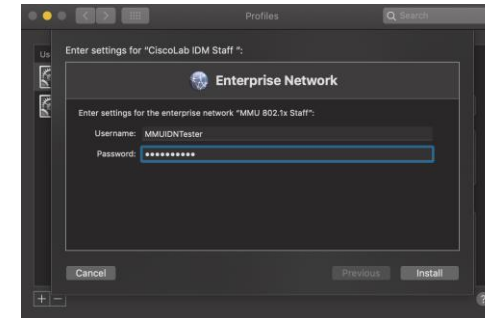
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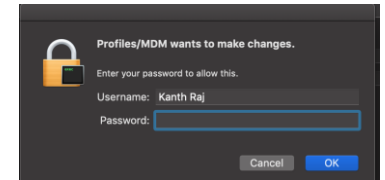
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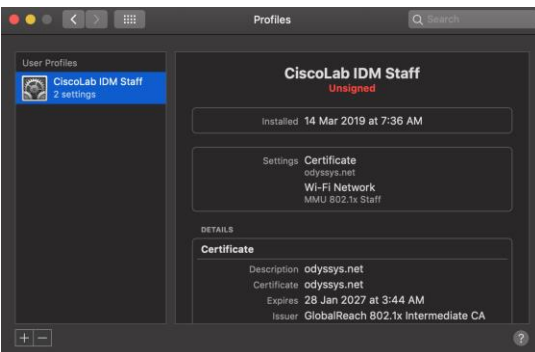
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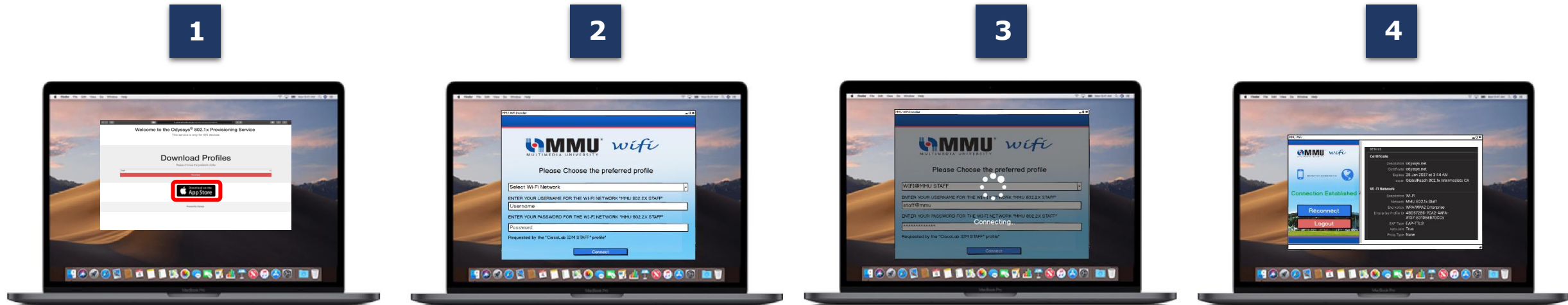


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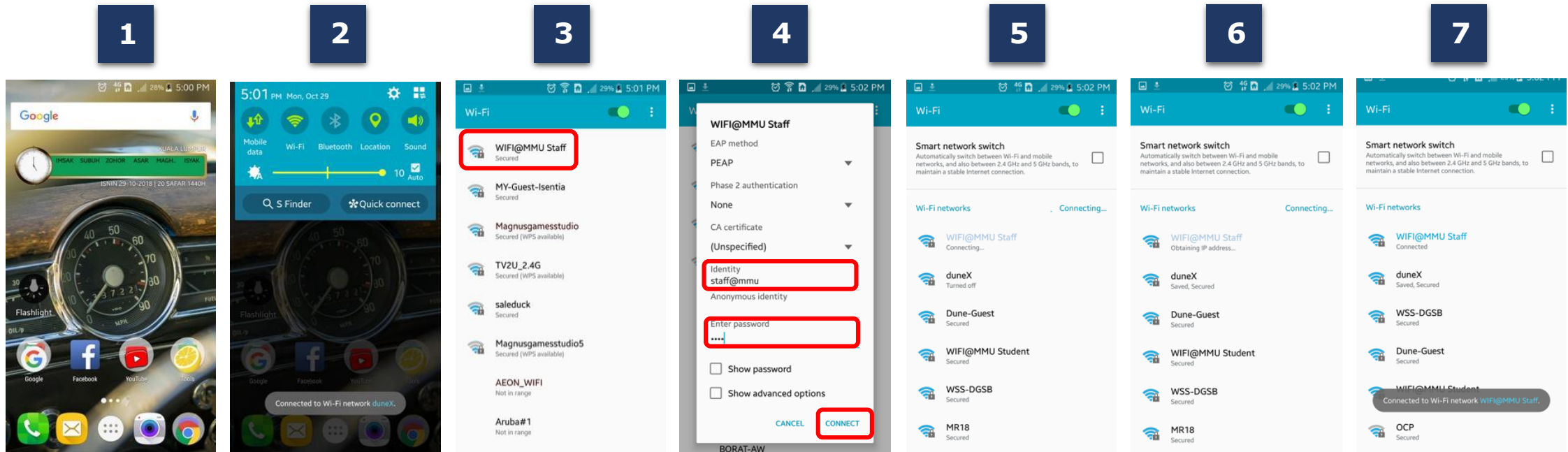
1. **Screen 1** – Once User selected the preferred Profile And click 'Download' button.
2. **Screen 2** – Select continue for system to install IDM Cicolab Certificate
3. **Screen 3** – Select continue again user authorization for installing IDM Cicolab Certificate
4. **Screen 4** – Insert MMU IDM user credentials, and Select Install
5. **Screen 5** – Insert Mac OS Password, and click OK
6. **Screen 6** – Profile will be installed
7. **Screen 7** – User will be connected Automatically once selected The SSID

# Propose Solution (Apple MacOS)



1. **Screen 1** – Turn on WiFi. Download and Install New "MMUWif.dmg" program
2. **Screen 2** – User Select SSID Network Name and Enter IDM password and tap 'Connect'
3. **Screen 3** – System programmatically installed all necessary certificates in configuration preference.
4. **Screen 4** – System displays Success Connection and user able to surf the internet.

# Existing Solution (Android OS)



1. **Screen 1** – Select “Settings” or pull down the menu from the top
2. **Screen 2** – Turn on “Wi-Fi”
3. **Screen 3** – Select the SSID to join/associate
4. **Screen 4** – Enter the username at “Identity” and password at “Enter Password”. Then click “Connect”
5. **Screen 5** – Device will start the authentication
6. **Screen 6** – Device will start obtaining IP address
7. **Screen 7** – User then get connected after successful authentication



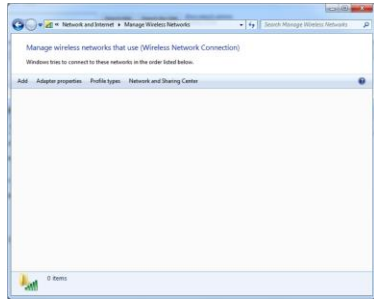
# Propose Solution (Android OS)



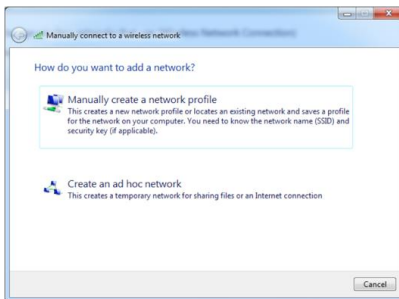
1. **Screen 1** – User Download and Open App
2. **Screen 2** – User Select SSID Network Name and Enter IDM password and tap 'Connect'
3. **Screen 3** – System programmatically installed all necessary certificates in configuration preference.
4. **Screen 4** – System displays Success Connection and user able to surf the internet.

# Existing Solution (Windows 7 OS)

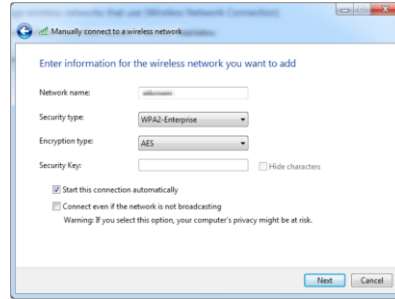
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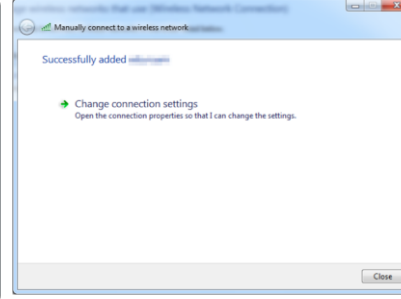
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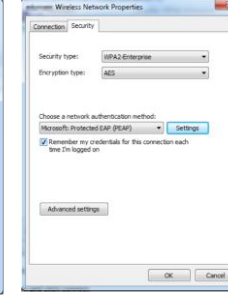
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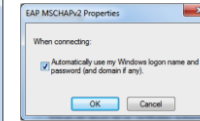
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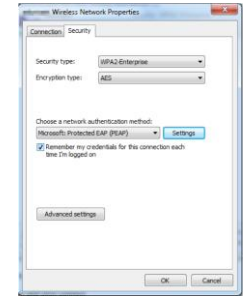
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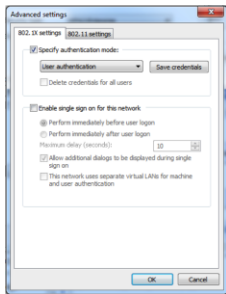
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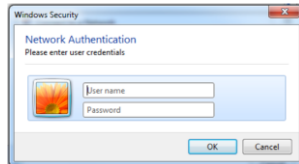
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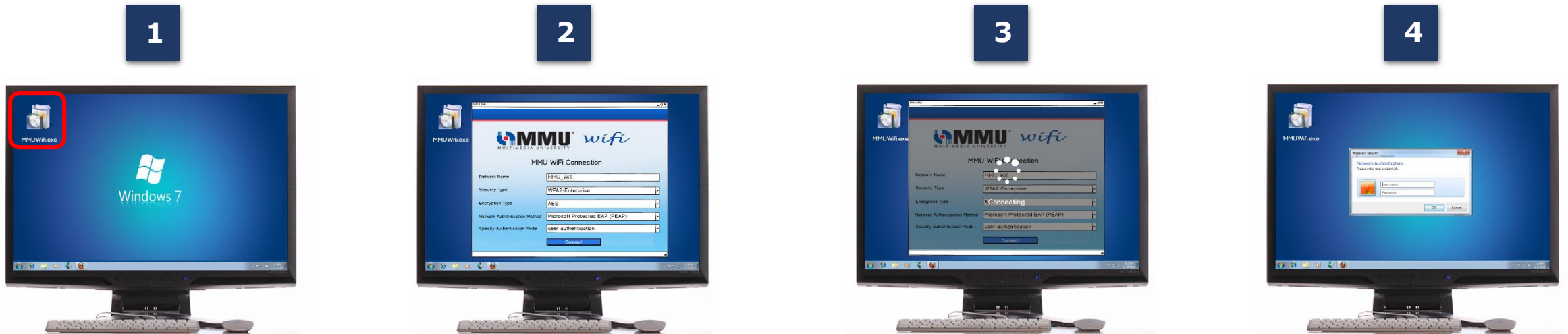
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1. **Screen 1** – Turn on WiFi. Right click the network icon on the lower right side of the screen and then click Open Network and Sharing Center. Then click Manage wireless networks and Click “Add”
2. **Screen 2** – Click “Manually connect to a wireless network”.
3. **Screen 3** – Connection details Select the following: Security type: WPA2-Enterprise, Encryption type: AES
4. **Screen 4** – Click “Change connection settings”
5. **Screen 5** – Set the Security tab to WPA2-Enterprise and Encryption type to AES. And under the “Choose a network authentication method:” Then click “Settings”
6. **Screen 6** – Uncheck the option “Automatically use my windows username and password”. Click Ok to apply the configuration
7. **Screen 7** – Click the “Advanced settings” button
8. **Screen 8** – Check the “Specify authentication mode:” and select User authentication from the drop down box.
9. **Screen 9** – Connect to the SSID and enter your IDM username & password at the prompted login box.



# Propose Solution (Windows 7 OS)



1. **Screen 1** – Download and Install New "MMUWifi.exe" program.
2. **Screen 2** – User enters Network Name and select correct Network Configuration then clicks Connect.
3. **Screen 3** – System follows the configured batch processing .
4. **Screen 4** – Connect to the SSID and enter your IDM username & password at the prompted login box.

# Software Specification

Operating System	Native iOS	Native MacOS	Native Android	Microsoft Windows 7
Software Languages	Objective-C, Swift, XML, HTML	Objective-C, Swift, XML, HTML	Java, Python	C/C++, Python, Java
Development Tools	X-Code	X-Code	Android studio	Visual studio
Database	Cache API (NSXMLParser)	Cache API (NSXMLParser)	Cache API	Non
Compatibility	Iphone, Ipad	Macbook Air, Macbook Pro	Android Phone, Tab	Desktop, Laptop
Application Installer	App Store (.ipa)	Disk iMaGe (.dmg)	Google Store (.apk)	Executable (.exe)