

# **Technical Guide**

# Social Media Authentication

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# **Table of Contents**

1.		Introduction	3
2.		Overview	4
3.		Social Media Authentication	5
	3.1	Sign in with Facebook Account	5
	3.2	Sign in with LINE Account	
	3.3	Verification	
4.		Controller Configuration	
	4.1	Service Zone Configuration	
	4.2	Social Media Login Mechanism and Limitation	
5.		Social Account Log	
	5.1	User Events	
	5.2	Social Media Account Quota List	
	5.3	Social Media Account Information	
6.		Conclusion	
7.		Remarks	

## 1. Introduction

This technical guide is aimed at explaining the practical setup flow of Social Media Authentication on the Controller. Using social media accounts for authentication has become an upcoming trend in public Wi-Fi networks. The Social Media Authentication feature on the Controller allows users to login with their existing social media accounts such as Facebook for Internet access without having to provide other credentials.

With this technical guide, network administrators can easily setup and configure for Social Media Authentication on the Controller for providing free Wi-Fi service to users.

### 2. Overview

The Social Media Authentication feature on the Controller supports login through a variety of social media including Facebook, LINE, Weibo, OpenID and VK. Administrators can set usage constraints such as access time, access limit per day and reactivation time. In addition, users who login using social media authentication will be assigned to a group as preset by the administrator, and a group policy can be enforced on these users to further govern their Wi-Fi usage.

Social Media Authentication, along with Guest (Free) Authentication, are two authentication options provided on the Controller that the administrators can use to provide free Wi-Fi service to short-term users. See the diagram below for how these two login options will display on the default General Login Page.



# 3. Social Media Authentication

Controller's Social Media Authentication allows Wi-Fi users to access internet without going through the tedious process of account registration. When a user chooses a specific social media for login on the login page, he/she will be redirected to the login page of that social media. Once the user logs in successfully with their social media account, they will be redirected to the login successful page shown by the Controller. Communication between the Controller and the social media supported is through API. Thus, the administrator has to apply for an application from the social media's developers websites, and enter the API credentials into the Controller.

Groups       Main - Ubers - Estemal Authentication - Social Media Legin         Authentication Servers       When Social Media Legin is enabled, the controller collects information from the clients. Praze enable Discharmer or controller collects information from the clients. Praze enable Discharmer or controller collects.         DD3       Social Media Login         DD3       Social Media Login         Authentication       Social Media Account Information         Social Media Account Information       View         Social Media Account Information       View         Social Media Account Access Time       Unimited         Philes       Social API Credentials         Social API Credentials       Social API Credentials         Additional Controls       Social API Credentials         Social API Credentials       View         Authenticution       Punishment List         Wiew       View         Authenticution       Social API Credentials         Corols       Social API Credentials         Clash       Une Login         Milerinicution       Une App ID         Une App ID       Une App ID         Une App Serret       Sochade ID         Schedule       Reclose Login         Schedule       Reclose Login
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Authentication Servers
Internal Authentication  External Authentication  ADD3  LDAP  ADDUS  NT Domain  SpP Line Login Line App ID Line App Secret Schedule Facebook Login Facebook
External Authentication         Formation           POP3         Social API Credentials           LDAP         BADIUS           NT Domain         Line Login           SPP         Line App ID           Social Accounts         Line App ID           Schedule         Facebook Login           Policies         Facebook Login
POP3     Social API Credentials       LDAP     BADIUS       RADIUS     Une Login       SP     Une App ID       Social Accounts     Une App Secret       Schedule     Facebook Login       Policies     Facebook Login
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AADUUS       NYT Domuin     Line Login       SuP     Line App ID       Social Media     Line App Secret       Schedule     Policies       Policies     Facebook Login
NT Domain     Line Login       SIP     Line App ID       Social Media/ On-Demand Accounts     Line App Secret       Schedule     Policies       Policies     Facebook Login
SP         Line App ID           Social Accounts         Line App Secret           Schedule         Facebook Login           Policies         Facebook Login
Social Media         Line App Secret           On-Demand Accounts         Schedule           Policies         Facebook Login           Facebook Login         Encelure
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Bialousts Pacebook App ID
Privilege Lists Facebook App Secret
Additional Controls
Google+ Sign-in
Conclet Cleart D
Givige Project Client ID
Google Project Client Secret
Upload JSON data (optional) Browsen. No file selected.
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Weibo Login 📃
Welbo App ID
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interest day not not
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### 3.1 Sign in with Facebook Account

Administrators are to visit the Facebook for Developers website (<u>https://developers.facebook.com/</u>) to apply for a "Facebook Login" App. Administrators should first login to Facebook Developers with a

registered Facebook Account if they're new to the platform. To create an App, follow the instructions below. The instructions given here are based on Facebook API Version 3.1. Different settings may apply for other API Versions.

There are two things to note here. For newer API versions such as v3.1, the use of HTTPS for Redirect URIs and the JavaScript SDK is mandatory, and the use of HTTPS will become mandatory for all apps on October 6, 2018 according to Facebook (https://developers.facebook.com/docs/facebook-login/security/). In addition, a valid SSL/TLS certificate has to be obtained and uploaded to the Controller for use.

On the upper right corner, move the cursor to "My Apps" for the drop-down menu to be displayed. Since the account being used for demonstration here has already had Apps created, we will click on "Add New App".

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← → C • Secure https://developersfacebook.com		Products Do Oculus Developer Conference Join the VR creators and making the impossible, p	inno <sup>,</sup>	<ul> <li>Wy Apps *</li> <li>Version 3.1</li> <li>QA login ver3.x</li> <li>QA social media log</li> <li>Support</li> <li>See All Apps</li> </ul>	x o	
oculus conn	ect	Learn More		Add New App Requests Developer Settings Company Settings		
Regional winners for the Develo     Community challenge announce	per Circles An Update on Facebook	App Review Platform Update on Publish Permiss Learn More	sion	Log Out of Facebook		

1. Under "My Apps", click on "Add New App"

2. In the pop-up window, fill in preferred Display Name and Contact Email to create App ID.

#### Technical Guide Social Media Authentication

facebook for developers				Products	Docs	More ▼	My Apps ▼	Q
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3. Add a Facebook Login by clicking on Set Up in the Facebook Login box.

facebook for developers		Doc	cs Tools Support My Apps	Q Search developers.facebook.com
🔯 Demo	▼ APP ID:		FF Status: In Development View Analytics	s
📫 Dashboard				
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Alerts	<b>&gt;</b>			
PRODUCTS (+)		2.	FD	
	Facebook Login	Account Kit	Audience Network	
	The world's number one social login product.	Seamless account creation. No more passwords.	Monetize your mobile app or website with native ads from 3 million Facebook advertisers.	
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	Analytics	Messenger	Webhooks	
	Understand how people engage with your business across apps, devices, platforms and websites.	Customize the way you interact with people on Messenger.	Subscribe to changes and receive updates in real time without calling the API.	
	Read Docs Set Up	Read Docs Set Up	Read Docs Set Up	

#### 4. Select Web



5. Enter URL of one's website. This could be the domain name on the SSL/TLS certificate to be used.

facebook for developers		Docs Tools Support My Apps Q Search developers.facebook.com
🔯 Demo 👻	APP ID: MAXAGER AND A CONTRACT AND A	OFF Status: In Development -* View Analytics
ff Dashboard	IOS Android  I. Tell Us about Your Website  Tell us what the URL of your site is.  Site URL  http://www.domain.com/	Web Other
	2. Set Up the Facebook SDK for Javascript     3. Check Login Status     4. Add the Facebook Login Button	۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲
	5. Next Steps	•

6. Go to Settings > Basic and enter one's own Privacy Policy URL. Facebook would check if the URL is valid.

facebook for developers		Docs Tools Support My Apps Q Search developers.facebook.com
Demo Demo	APP ID:      APP ID:	OFF) Status: In Development -* View Analytics
■ Dashboard Settings Basic Advanced E] Roles A Alerts App Review PRODUCTS ① © Facebook Login Ξ Activity Log	App ID	App Secret

7. Go to Facebook Login > Settings and add <u>https://your internal domain</u>

<u>name/loginpages/fb\_callback.shtml</u> to the "Valid OAuth redirect URIs". Remember to use the internal domain name on the valid SSL/TLS certificate that will be uploaded to the Controller.

8. Go to the "App Review" page and make the App public.

facebook for developers			Docs Tools Support My Apps Q Search developers.facebook.com
	Ø Demo	•	APP ID: MSYSTEMENTARY ON Status: Live >* View Analytics
	Deshboard     Settings     Settings     Roles     Alerts     App Review  PRODUCTS     Facebook Login	Þ	Submit Items for Approval         Some Facebook integrations require approval before public usage.         Before submitting your app for review, please consult our Platform         Policy and Review Guidelines.             On       Your app is currently live and available to the public.
	🗄 Activity Log		Approved Items 10
			email [7] Provides access to the person's primary email address. This permission is approved by default.      default [7] Provides access to a person's name and profile picture. This permission is approved by default.

Now, from the Controller's WMI, go to <u>Utilities > Certificates</u> and upload a valid SSL/TLS certificate.
 Once uploaded, the certificate will be displayed as UPLOAD1 if it is the first uploaded certificate.

		SYSTEM	USERS	DEVICES	NETWORK	UTILITIES
Administrator Accounts	Main > Utilities > Certificates					
Backup & Restore						
Certificates	Certificate Managemer	nt				
Network Utilities						
Restart						
System Upgrade	Cert Name	Com	mon Name		Used by	
			System Certificate 🖉			
	Default Certificate	CN=gateway.example.com		Built-in RADI	JS, CAPWAP	
	UPLOAD1	CN=		WEB Server		
			Internal Root CA 🧳			
	Internal Root CA	N/A				
		Inter	rnally Issued Certificate	P		
	N/A	N/A				
		Trusted	Certificate Authorities (CA	A) /		
	N/A	N/A				

10. Go to <u>System > General Settings</u>. Choose UPLOAD 1 as HTTPS Certificate and enable User HTTPS Login. For Internal Domain Name, use the name on SSL certificate, or manually type in the internal domain name if a wildcard certificate is used. Reboot the Controller as asked.

		SYSTEM	USERS	DEVICES	NETWORK	UTILITIES	STATUS
General	Main > System > General						70.0540.5
WAN							
IPv6	General Settings						
LAN Ports							
High Availability							
Service Zones	System Name	Access Controller					
Port Location Mapping	Contact Information						
PMS Interface	HTTPS Certificate	When there is a warning of "P	ease contact your netwo	ork administrator"			
	Liser HTTPS Login	Enable     Disable					
	osci initi s cogni	Secure					
	HTTPS Automatic Redirect	Allow Block Byp	ass				
		Allow HTTPS Automatic Redire	ect with Certification Secu	urity Alert			
	Internal Domain Name	🕑 Use the name on SSL cer	tificate				
		facebookapp.domain.com	n				
	Portal URL Exceptions (User Agent)	IEMobile/7.0,XBLWP7					
		(e.g. IEMobile/7.0,XBLWP7, se	parate by comma)				
	User Log Access	Enter IP Address Here					
	UAM Filter	Configure					
	Management IP Address	Configure					
	SNMP	Enable I Disable					
	Suspend Warning Message	Sorry! The service is suspend	ed. *				
	NMS Setting	Configure					

 Now return to the Facebook Login App that has been created. Go to Settings > Basic to copy the App ID and Secret.

facebook for developers				Docs Tools Support My Apps Q Search developers.facebook.com
	🕸 Demo	•	APP ID: MANZAWARAN	ON Status: Live -* View Analytica
		•	APP ID: DEGEERED CARGE	App Secret     App Secret     Show     Namespace     Contact Email   test@domain com   Terms of Service URL   Terms of Service Ru Collin dialog and App Details   Category   Basiness and Pages     Find out more information about app categories here
			Business Use This app uses Facebook tools or data to Support my own business Provide services to other businesses	

12. From the WMI of the Controller, go to Users > External Authentication > Social Media, enable

Facebook Login and paste the App ID and Secret.

		SYSTEM	USERS	DEVICES	NETWORK	UTILITIES	STATUS
Groups	Main > Users > External Authentication > Social Med	lia Login					
Authentication Servers							
Internal Authentication	When Social Media Login is enabled, the controll information from the clients. Please enable Discl	ler collects aimer or					
External Authentication	customized login page to include claims and rem	inders.					
POP3	Social Media Login						
LDAP							
RADIUS	Group	Group 1					
NT Domain	Group						
SIP	Social Media Account Information	View					
Social Media	Social Media Account Access Time	Unlimited O Limited					
On-Demand Accounts	Punishment List	View					
Schedule							
Policies		Appl	ly 🛛 🔀 Car	ncel			
Blacklists							
Privilege Lists	Social API Credentials						
Additional Controls	Social Arr credentials						
	Line Login						
	Line App ID						
	Line App Secret						
	Line rep sector						
	Facebook Login						
	Facebook App ID	*					
	Facebook App Secret		*				

13. Make sure to enable Facebook Login in the appropriate Service Zones.

### 3.2 Sign in with LINE Account

Administrators are to visit the LINE developers website (<u>https://developers.line.me/</u>) to create a "LINE Login" product. Administrators should first login with their registered LINE account, and they can start to create a "LINE Login" product. Please refer to the instructions provided on the website (<u>https://developers.line.me/en/docs/line-login/getting-started/</u>) for the setup. Note that in App settings, please set the Callback URL to <u>http://gateway.example.com/loginpages/line\_login.shtml</u> if the Internal Domain Name on the Controller is left at default. If the Internal Domain Name has been changed, please set the Callback URL to <u>http://your internal domain name/loginpages/line\_login.shtml</u>.

QA	Channel
QA	Domain 🗘
	App settings
	Configure the settings required for integrating LINE Login on iOS, Android, and web apps.
Domain 🌍 LINE Login	Redirect settings
	Set the URL for where the user is redirected after logging in.
Channel settings App settings	Callback URL  thtp://gateway.example.com/loginpages/line_login.shtml
Roles	
Testers	

### 3.3 Verification

As mentioned previously, when a user chooses a specific social media for login on the login page, he/she will be redirected to the login page of that social media. After logging in with their social media account, the user will be asked to give permission to the App to collect certain account information. The user has to agree for successful login.

#### Facebook Login flow



# 4. Controller Configuration

### 4.1 Service Zone Configuration

To enable Social Media Authentication, go to **System > Service Zone > Configuration**, and enable Social Media Login under "Authentication Options".

	SYSTEM	USERS	DEVICES		NETWOR	¢.	UTILITIES	
General			wite i 16 w					
WAN	SIP Interface Configuration	C Enabled ® Dis	abled					
IPv6	WISPr Settings	Configure						
LAN Ports High Availability	Authentication Options	Auth. Option	Auth. Database	Postfix	Default	Enabled		
Service Zones		Server 1	LOCAL	local	۲	8		
Port Location Mapping		Server 2	RADIUS		0			
PMS Interface		Server 3	NTDOMAIN	ntdomain	0	8		
		Server 4	LDAP	Idap	0	8		
		Server 5	POP3	рор3	0	0		
		On-Demand	ONDEMAND	neti	Θ	0		
		SIP	SIP	N/A				
		Guest	FREE	N/A		2		
		Social Media Login	SOCIAL	N/A		8		

Consequently, when users connect to the Service Zone, the corresponding Login Page will display Social Media Login options. In Controller, MAC addresses will be checked to avoid malicious use of free access.

### 4.2 Social Media Login Mechanism and Limitation

In firmware version v3.42.00 or later versions, when a user clicks on any of the social media sign-in buttons, he/she will be given 5 minutes of free Internet access.

•••••• 中醫電信 4G 6-30 PM イ ● 参 82X ● gateway.example.com     T5-Sandro     Log In Cancel	・・・・・・・ 中華電信 ◆ 6:32 PM イ ● 8 81% ■ ) ● facebook.com TS-Sandro く Log In Done	+••••中華電信 40 ⊃ 6-33 PM	・・・・・中部電信 4G 6:33 PM イ ● ≷ 81% ■C gateway.example.com く Log In Done
	facebook	Log in With Facebook	
LOGIN Username Pasword	Log into your Facebook account to connect to 4ipnet Social login	dipnet	Hello, you are logged in via just, bow, 9201 @hotmail.com
Remember Me	Email or Phone Facebook Password	4ipnet Social login will receive: your public profile and email address.	To log out, please click the "Logout" button. Login time: 2017-06-19 12:33
PREE_LOGIN Email Checkyour malbox to extend usage time after successful logn.	Log In Create Account		Semaining Time: (32) Hour (4) Min
f Sign in with Facebook	Not now Forgot Password? - Help Center	Continue as Shao-Chiu	Logout
8* Sign in with Google	English (UE) (†~2(1931) Tidrg Vijt Bahasa Indonesia Español Portugals (filmsi) Français (France) (+)	This doesn't let the app post to Facebook. Cancel	
Click the button to get 5min free permission to complete login flow	Complete these ope	ration in 5 min	Get free Wi-Fi Service

If the user clicked on the sign-in button for one of the social media but did not complete the login process three times, the user will be blocked for 15 minutes as punishment, during which he/she will not be able to login using the same option. Administrators can check user status from WMI (<u>Users > External</u> <u>Authentication > Social Media Login > Punishment List</u>) and dismiss the punishment manually.

ishment list	
Dismiss	Search-
	Jearch.
•	MAC
No.c	ata available in table

# 5. Social Account Log

### 5.1 User Events

Logs on User Events can be saved for up to 30 days. Administrators can select the begin and end dates from the calendar to filter User Events, and they can click on the Download button to download the displayed User Events into a comma separated .txt file. Besides user events for social media accounts, user events for other accounts such as Local, On-Demand and Guest can also be displayed in User Events with user related information such as Event, Email address, IP address, MAC address and etc.

SCIL	vents								
play Mo	de	onfigure							
rom		Display							
	20	17-09-21							
er Type		Local 🔲 On-Demand 🔲 Guest	: 🔲 Roaming Out	🔲 Roaming In 🔲 E	xternal 🗹 Social				
Download	L]			Type 🔻		Search			
	_								
Туре	Date	Name	IP	MAC	Event	Remark			
Type SOCIAL	Date 2017-09-19 12:15:00 +0200	Name 70:70:0D:84:EB:84@SOCIAL	IP 192.168.30.13	MAC 70:70:0D:B4:EB:84	Event Initiate	Remark facebook			
Type SOCIAL SOCIAL	Date 2017-09-19 12:15:00 +0200 2017-09-19 12:15:49 +0200	Name 70:70:0D:B4:EB:84@SOCIAL	IP 192.168.30.13 192.168.30.13	MAC 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84	Event Initiate Login	Remark facebook facebook			
Type SOCIAL SOCIAL SOCIAL	Date 2017-09-19 12:15:00 +0200 2017-09-19 12:15:49 +0200 2017-09-19 12:28:04 +0200	Name 70:70:0D:B4:EB:84@SOCIAL	IP 192.168.30.13 192.168.30.13 192.168.30.13	MAC 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84	Event Initiate Login Admin-Reset	Remark facebook facebook facebook			
Type SOCIAL SOCIAL SOCIAL SOCIAL	Date           2017-09-19 12:15:00 +0200           2017-09-19 12:15:49 +0200           2017-09-19 12:28:04 +0200           2017-09-19 12:31:58 +0200	Name           70:70:0D:B4:EB:84@SOCIAL           70:70:0D:B4:EB:84@SOCIAL	IP 192.168.30.13 192.168.30.13 192.168.30.13 192.168.30.13	MAC 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84	Event Initiate Login Admin-Reset Initiate	Remark facebook facebook facebook			
Type SOCIAL SOCIAL SOCIAL SOCIAL SOCIAL	Date           2017-09-19 12:15:00 +0200           2017-09-19 12:15:49 +0200           2017-09-19 12:28:04 +0200           2017-09-19 12:32:56 +0200           2017-09-19 12:32:56 +0200	Name           70:70:0D:B4:EB:84@SOCIAL           70:70:0D:B4:EB:84@SOCIAL           70:70:0D:B4:EB:84@SOCIAL           70:28:8B:46:6C:6A@SOCIAL	IP 192.168.30.13 192.168.30.13 192.168.30.13 192.168.30.13 192.168.30.76	MAC 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:28:8B:46:6C:6A	Event Initiate Login Admin-Reset Initiate Initiate	Remark facebook facebook facebook facebook			
Type 500CIAL 5	Date           2017-09-19 12:15:00 +0200           2017-09-19 12:15:49 +0200           2017-09-19 12:28:04 +0200           2017-09-19 12:31:58 +0200           2017-09-19 12:32:56 +0200           2017-09-19 12:32:56 +0200           2017-09-19 12:33:21 +0200	Name           70:70:0D:B4:EB:84@SOCIAL           70:70:0D:B4:EB:84@SOCIAL           70:70:0D:B4:EB:84@SOCIAL           70:28:8B:46:6C:6A@SOCIAL	IP 192.168.30.13 192.168.30.13 192.168.30.13 192.168.30.13 192.168.30.76 192.168.30.13	MAC 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:70:0D:B4:EB:84 70:28:8B:46:6C:6A 70:70:0D:B4:EB:84	Event Initiate Login Admin-Reset Initiate Initiate Login	Remark facebook facebook facebook facebook facebook			

### 5.2 Social Media Account Quota List

The Social Media Account Quota List displays the status for online social users who are logged in by their own social media accounts (Email Address or Unique ID), along with clients' MAC Addresses, Valid Time and corresponding Allowance. Administrators can delete entries from this list if necessary.

al M	edia Acc	ount List			
	cura nec	ount List			
Dalata	1				
perete					
-	-				
	Status	MAC Address	Email Address / Unique ID	Time	Allowance
	Status Valid	MAC Address 70:70:00:84:EB:84	Email Address / Unique ID	Time Valid before 2017/10/05 03:41	Allowanc

### 5.3 Social Media Account Information

The Controller is capable of collecting valuable customer information from Guest Email Login clients and/or Social Media Login clients for further analysis or marketing purposes. Administrators can download Social Account Names and Account Emails/Unique ID on the Social Media Account List. Besides, the last login field indicates when the client has logged in to the system and the logins field shows how many times the socail account user appears in the system. This information can be helpful for tracking client royalty of stores, for example.

<u>U</u>			
Name	Email Address / Unique ID	Last Login	Logins
Mirco Fulminis	((1945))((141945)(3))(C)	2017-07-13 17:31:34	0
and the second second second	And the second second second	2017-00-21-02-41-26	2
	Name Mirco Fulminis	Name Email Address / Unique ID Mirco Fulminis	Name Email Address / Unique ID Last Login Mirco Fulminis 2017-07-13 17:31:24

# 6. Conclusion

This solution is capable of performing flexible guest authentication such as email verification or social media account login. Social media supported for login includes Facebook, Line, Weibo, and OpenID. Along with the robust authentication features, the WLAN Controller is able to consolidate valuable information collected from guests for future marketing purposes. With this solutions, administrators can easily and efficiently provide guest Wi-Fi service to users.

# 7.Remarks

For more information, please contact your local system integrator or our Technical Support team.