

Technical Guide

One Time Password

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1 Introduction

One Time Password (OTP) is an authentication mechanism that enables users to obtain a login password (PIN code) via SMS so they can enter this code on the login page to login for Internet access. OTP also allows hotspot venues to collect user information with the integrated questionnaire for security and marketing purposes. This guide describes how to configure OTP and demonstrates a sample OTP login flow.

2 Configurations

2.1 Enable OTP Authentication Option for the desired Service Zone

Go to Main Menu > SYSTEM > Service Zones, in this sample case, "Default" Service Zone is selected:

	SYSTEM	USERS	NETW	ORK	UTILITIES	STATUS		
eneral	Main > System > Servio	e Zone						
/AN								
vб	Service Zo	ne Settings						
N Ports								
ervice Zones		The second se	Nerossagers.					
rt Location Mapping	Status	Service Zone Name	IP Address	IPv6 Address	VLAN Tag	Default Auth. Option	Network Alias	DHCP Pool
/IS Interface		Default	192.168.1.254	N/A	N/A	Server 1	N/A	192.168.1.1 ~ 192.168.1.100
	Corr	SZ1	172.21.0.254	N/A	1	Server 1	N/A	172.21.0.1 ~ 172.21.0.100
	(c) orr	SZ2	172.22.0.254	N/A	2	Server 1	N/A	172.22.0.1 ~

b. Scroll down to Authentication Options of Default Service Zone and ensure the option entry of "One Time Password" is enabled.

	SYSTEM	USERS	NETWORI	κ ι	TILITIES		STATU	JS
General	Authentication	Options	Auth. Option	Auth. Database	Postfix	Default	Enabled	
WAN								
IPv6			Server 1	LOCAL	local	۲		
LAN Ports			Server 2	RADIUS	radius	0		
Service Zones			Server 3	NTDOMAIN	ntdomain	•		
Port Location Mapping			Server 4	LDAP	Idap	0		
PMS Interface							-	
			Server 5	POP3	рорз	0		
			On-Demand	ONDEMAND	ondemand	0		
			SIP	SIP	N/A			
			Guest	FREE	N/A			
			Social Media Login	SOCIAL	N/A			
			One Time Password	OTP	N/A	۲		

Figure 2.1b - To Enable Auth. Option of "One Time Password"

2.2 Configure OTP Settings

a. Go to OTP Authentication Page: Main Menu > USERS > Internal Authentication > One Time

Password.

Main > Users > Internal Authentication >	One Time Persword Authentication				
	One time Password Addrendedon				_
One Time Passwor	rd Authenticatior	1			
Group	Group 1 🔻				
OTP Client Information	View				
Default Country Code	AF - AFGHANISTAN (+	-93)	•	only display default country co	ode
Length of Mobile Phone	0 *(0: Unlin	nited)			
Quota	0 day(s) 0	hour(s) 30	minute(s) *		
Questionnaire	Configure				
SMS Gateway	Configure				
Web Page Customization	Configure				
		Apply	& Cancel		
	Group OTP Client Information Default Country Code Length of Mobile Phone Quota Questionnaire SMS Gateway Web Page Customization	Group Group 1 OTP Client Information View Default Country Code AF - AFGHANISTAN (* Length of Mobile Phone 0 *(0: Unlin Quota 0 day(s) 0 Questionnaire Configure SMS Gateway Configure Web Page Customization Configure	Group Group I OTP Client Information View Default Country Code AF - AFGHANISTAN (+93) Length of Mobile Phone O *(0: Unlimited) Quota O day(s) O hour(s) 30 Questionnaire Configure SMS Gateway Configure Web Page Customization Configure	Group Group I OTP Client Information View Default Country Code AF - AFGHANISTAN (+93) Length of Mobile Phone View Quota Quota Quota Quota Quota Questionnaire Configure SMS Gateway Configure Web Page Customization Configure Web Page Customization Configure Configure	Group Group 1 OTP Client Information View Default Country Code AF - AFGHANISTAN (+93) OTP client information View Length of Mobile Phone 0 *(0: Unlimited) Quota 0 day(s) 0 hour(s) 30 minute(s) * Questionnaire Configure SMS Gateway Configure Web Page Customization Configure

Figure 2.2a - OTP Configuration Page

To configure OTP, select each setting and specify necessary parameters:

Group: Set the group to which the OTP users belong.

OTP Client Information: Displays the information of all logged-in OTP users (Login Time, Phone number, MAC address, Answers to Questionnaire)

Default Country Code: Set the country code of phone to be used in the login page

Length of Mobile Phone: Set the length of digits of the phone number

Quota: Set the usage quota after users' login

Questionnaire: Add additional questions for users to answer during login flow

SMS Gateway: Configure SMS Gateway

Web Page Customization: Customize the OTP related webpages during login flow

b. Configure the basic settings based on the hotspot venue's needs; for example:

Group	Grou	ıp 1 🔻			
OTP Client Information	View	v			
Default Country Code	TW -	TAIWAN (+886)			▼ 🖉 only display default country code
Length of Mobile Number	0	*(0: Unlim	nited)		
Quota	0	day(s) 3	hour(s) 0	minute(s)	*
Questionnaire	Con	figure			
SMS Gateway	Con	figure			
OTP Page Customization	Con	figure			

Figure 2.2b - Basic OTP Settings

c. Edit and enable the Questionnaire; for example:

Main > 1	Jsers > Internal /	Authentication > Gue	est Authentication > Guest Questionna	re	
When inform custor	Guest Question nation from the nized login page	naire is enabled, th clients. Please enab to include claims a	e controller collects le Disclaimer or nd reminders.		
Gue	st Ques	stionnaire	e		
-					
	No.	Active		Question	
	No. 1	Active	Gender:	Question	
	No. 1 2	Active	Gender: Comments:	Question	
	No.	Active		Question	

Figure 2.2c - Enter the questions which will be used in Login Flow

- **d.** Edit and enable the SMS Gateway:
 - (1) Two options of SMS Gateway are available: Clickatell and SMS API.

Setting up the SMS Gateway with Clickatell would be easier if the hotspot venue already has a Clickatell account since the API parameters have been integrated into the controller and do not have to be specified.

Selection	Clickatell	SMS A
Version	Old (Prior to November 2016)	New
Send SMS for	Account Registration	
API key	an and an an an an an an an	
API URL	https://platform.clickatell.com/messages	

Figure 2.2d1a - Two SMS Gateway Options

Note: This SMS Gateway configuration page is a common page which is used for both

"On-Demand" and "One Time Password" authentication options. Therefore, to correctly display the authentication options in the login page, we have to specify the setting "Send SMS for" to indicate how to use SMS Gateway for On-Demand authentication option.

	Auth. Option	Auth. Database	Postfix	Default	Enabled
Default Login Page	Server 1	LOCAL	local	۲	
	Server 2	RADIUS	radius	0	
	Server 3	NTDOMAIN	ntdomain	0	
LOGIN	Server 4	LDAP	ldap	0	
Password	Server 5	POP3	рор3	0	
Login	On-Demand	ONDEMAND	ondemand	0	
Access by One Time Password	SIP	SIP	N/A		
X	Guest	FREE	N/A		
Register Accounts by SMS	Social Media Login	SOCIAL	N/A	۲	
	One Time Password	OTP	N/A	0	

Figure 2.2d1b - Two additional auth. options displayed at the bottom of the Login Page

Selection	Clickatell		SMS API
Send SMS for	Account Registration		
API URL	Account Registration Account purchases via Paym Both	ent Gateway ——	7
Registration before Accounts Expired	Allow		O Block
"Both" selected:		via Payment	Gateway" selected:
"Both" selected:		via Payment	Gateway" selected:
"Both" selected:		via Payment	Gateway" selected:
"Both" selected: LOGIN Usemame Password		via Payment	Gateway" selected:
"Both" selected: LOGIN Username Password	ogin	via Payment	Gateway" selected:
"Both" selected: LOGIN Usemame Password Access by One Time Password	ogin	via Payment	Gateway" selected: LOGIN LOGIN

Figure 2.2d1c - "Send SMS for" setting will enable/disable the On-Demand auth. option in default login page

(2) In this sample case, however, we use the generic option of SMS API, by which we are able to customize the API parameters (to be sent to the SMS Gateway via the API) on this configuration page.

Selection	Clickatell		SMS API				
Send SMS for	Account Registration						
API URL	https://api.smsglobal.com/http-api.php *						
Parameter	No	Parameter	Parameter Value	Remark			
	-	to		Phone Number			
		text		SMS Content			
	1	user	n.iterung	API username			
	2	password	2Nox145213	API password			
	3	from	OTP Test	Sender ID or Text			
	4	action	sendsms	Action to be taken via the AP			
	5						
	6						
	7						
	8						
	9						
	10						
Response Format	[©] JSON		HTML				
Return Value of Successful Request	ОК: 0			•			
Sand Tast Massage	Please check the re	sponse sample code to ider	tify the object for indicating	the success of the request.			
Send Test Message	Phone Number			Send			
	Please apply the ch	nanges in this page before s	ending test message.				
Message Content			Message Editor				
	Parameter	\$One_Time_Password	ord Insert Param	neter			
	Your One Tim	ne Password is: <u>\$0</u>	ne_Time_Password				

SMS Gateway

Figure 2.2d2 - SMS Gateway Configuration

Note: For detailed information on configuring SMS Gateway, please refer to the other guide: TEC_SMS_API_Integration_R2_20171122.pdf

e. Edit and customize OTP related web pages, as needed:

OTP Registration Page	Template	U 4ipnet Default	Opload You Own Use External Page
OTP Authentication Page	Template	Text Color	000000
		Header	[Get One Time Password via SMS]
		Country Code	Country Code:
		Mobile Phone	Phone:
		Login Button	Send Me Password
		Preview	



OTP Registration Page	Template	O 4ipnet Default Custo	mize with Template 🔍 Upload You Own 🔍 Use External Page	2
OTP Authentication Page	Template	Text Color	00000	
		Header	Enter Password to Log In	
		Mobile Phone	Phone Number:	
		Password	Password:	
		Login Button	Login	
		Preview		

Figure 2.2e2 - Template OTP Authentication Page

[Get One	e Tim	e Pass	word	via SMS]
Country Code:	Taiwan (·	+886)			
Phone:					
Gender:					1
Commontes					1



Enter	Password to Log In
Phone Numb	er:
Password:	*
Pleas	se enter password in :
	Login

Figure 2.2e4 - OTP Authentication Page Preview

3 OTP Login Flow and Client Information

3.1 OTP login flow (demonstration based on an iPhone)



Figure 2.3a1 - Associate to the SSID



2.3a2 - Click 'Access by OTP' button



2.3a3 - Send Password to User via SMS



Figure 2.3a4 - Receives Password in the SMS message



2.3a5 - Enter Password to Log In



2.3a6 - Logged In Successfully

3.2 Client Information

a. Client information is collected upon successful login and can be viewed at Main Menu >

USERS > Internal Authentication > One Time Password > OTP Client Information

Client Information							
Download Delete All							
Time	Mobile	MAC	Custom 1 (Gender:)	Custom 2 (Comments:)			
2018-01-26 15:12:21	88429-3428627	76706047711	М	Thanks for the free Wi-Fi.			

Figure 2.3b - Information about all Logged-in Users

4 Remarks

Please contact Technical Support Team for additional inquiries.