

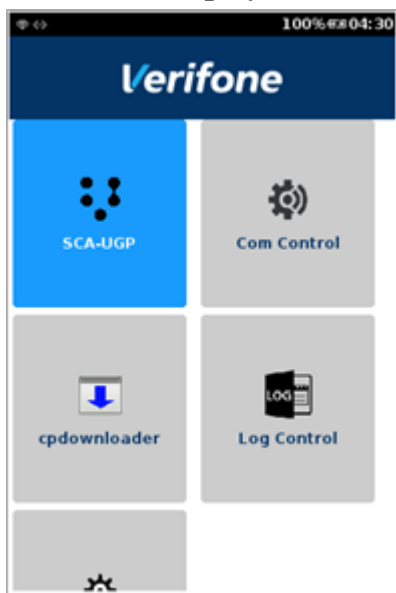
## WiFi Configuration

WiFi network can be configured in three ways for SCA application, like using Com Control Panel, updating SCA configuration package (ccpupdate.xml file) and downloading parameter using VHQ.

### Configuration Using CCP

The user can configure the network by using Com Control Panel (CCP) and following are the steps to configure:

#### Display

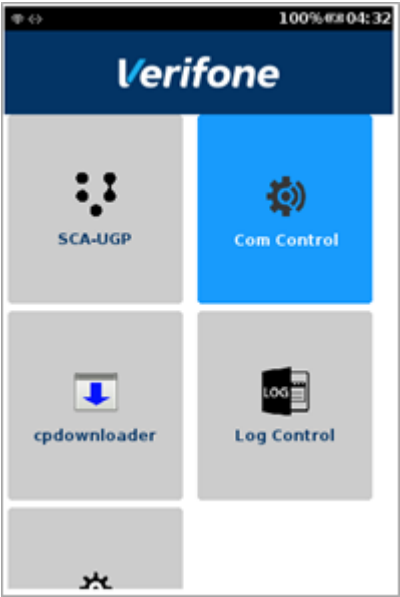


#### Steps Detail

Press **1 5 9** simultaneously on the device to start the application **Mac Menu**.

Display

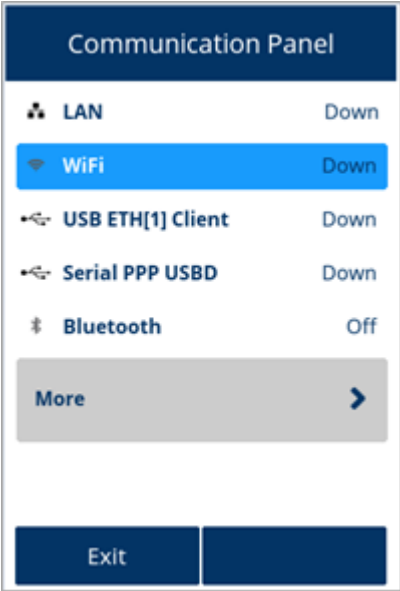
Steps Detail



Select Com Control option.



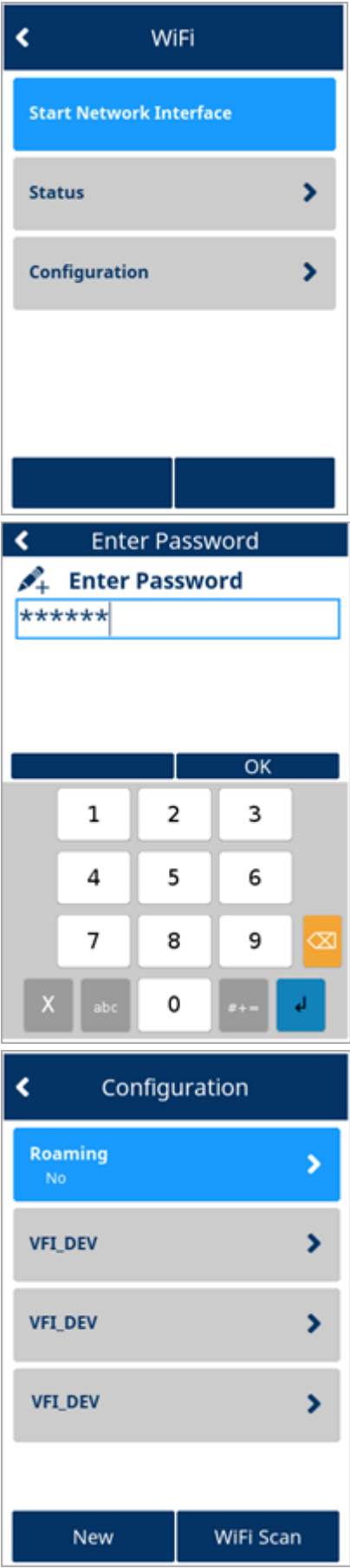
CCP screen is starting.



**Communication Panel** screen displaying the connection status. Select **WiFi** to configure the network.

Display

Steps Detail



**WiFi** configuration page. Select **Configuration** to configure Network communication.

Enter password screen is displayed. Enter the required password or reach out to *Verifone Contact* for actual password and press Ok or Enter.

**Configuration** page with options to select either [New](#) or [WiFi Scan](#).

WiFi Scan

Display

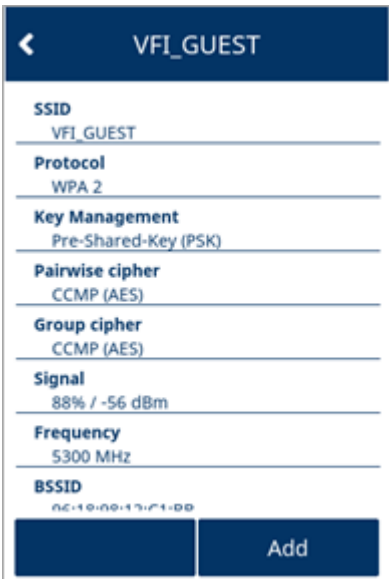
Steps Detail



Select **WiFi Scan** to check for existing network. Scanning in progress screen.



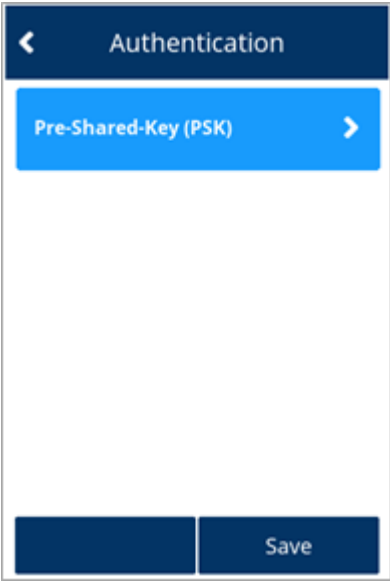
Select the Network name to configure.



Select **Key Management** to enter the network password.

Display

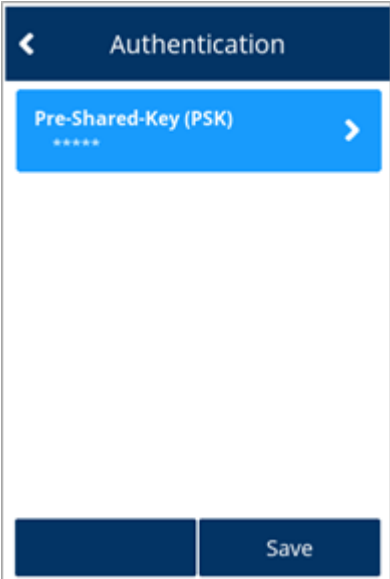
Steps Detail



Select the PSK.



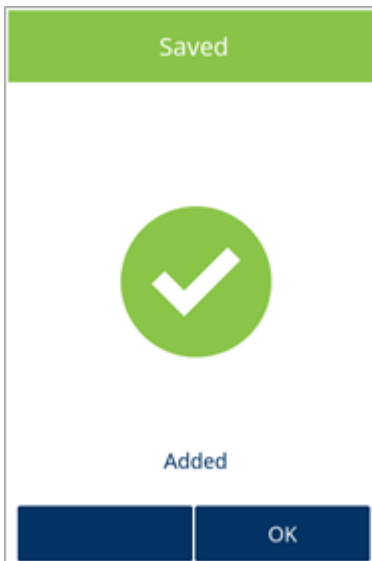
Enter the network password.



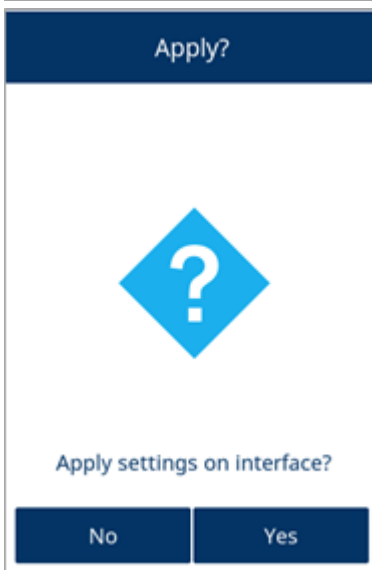
Select **Save**.

## Display

## Steps Detail



Notification screen as the network is Added and select OK.



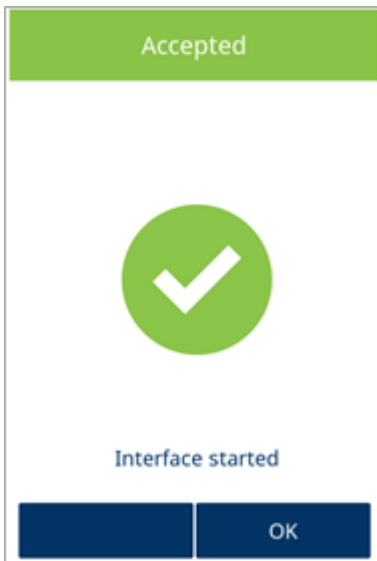
Select Yes to apply the settings and to start the network interface.



Starting the configured **Network Interface**.

## Display

## Steps Detail



The selected network is Configured. Press OK and return to **WiFi** configuration page.

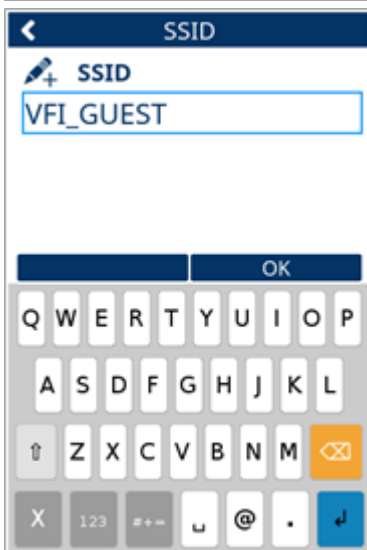
## New

## Display

## Steps Detail



Select the **SSID**.



Add the network name in SSID field and press OK or Enter.

## Display

## Steps Detail



View / Edit

SSID  
VFI\_GUEST

Hidden

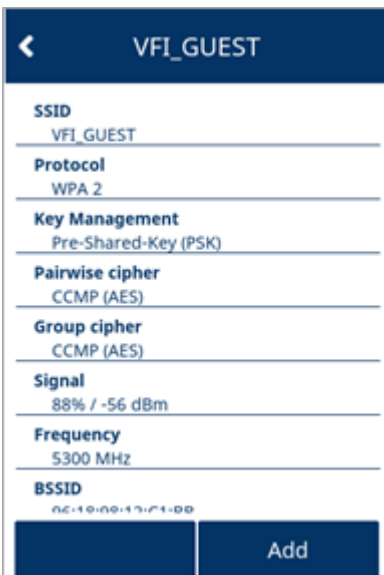
Autostart  
Yes

Authentication

IP Settings

Save

The new SSID name is displayed and select **Save**.



VFI\_GUEST

SSID  
VFI\_GUEST

Protocol  
WPA 2

Key Management  
Pre-Shared-Key (PSK)

Pairwise cipher  
CCMP (AES)

Group cipher  
CCMP (AES)

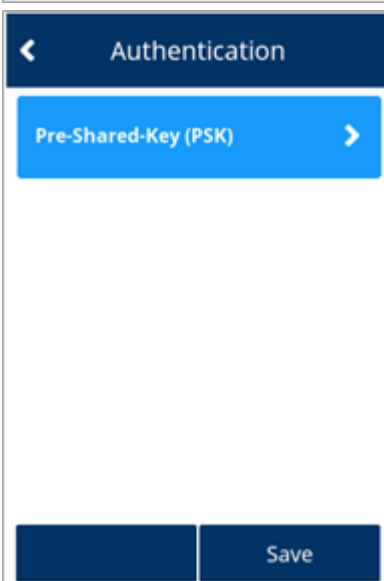
Signal  
88% / -56 dBm

Frequency  
5300 MHz

BSSID  
8C:1E:0D:13:C1:D0

Add

Select **Key Management** to enter the network password.



Authentication

Pre-Shared-Key (PSK)

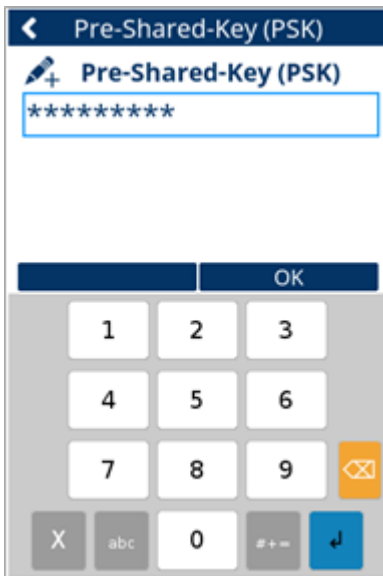
Save

Select the PSK.

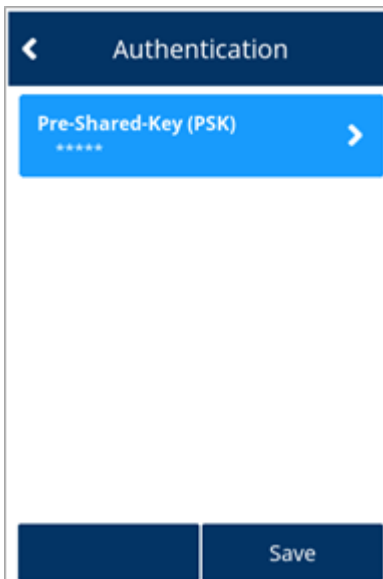


## Display

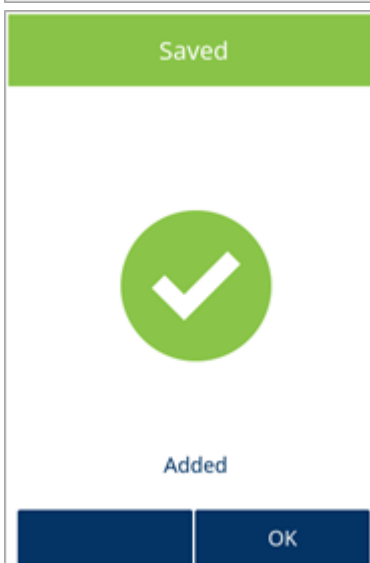
## Steps Detail



Enter the network password.



Select **Save**.




Notification screen as the network is Added and select **OK**.

## Display

## Steps Detail

Apply?



Apply settings on interface?

No

Yes

Select **Yes** to apply the settings and to start the network interface.


WiFi



Start Network Interface

Starting the configured **Network Interface**.

Accepted



Interface started

OK

The selected network is Configured. Press OK and return to **WiFi** configuration page.

## Display

## Steps Detail

Status	
WiFi	
Status	Up
Country Code	US/0
SSID	VFI_GUEST
Frequency	5300 MHz
[IPv4] IP Address	10.120.26.149
[IPv4] Netmask	255.255.248.0
[IPv4] Broadcast	10.120.31.255
QR Code	

Select **Status** screen to view the WiFi configuration details.

## SCA Configuration Package

SCA Configuration Package is another process of configuring the network., which is done as part of SCA configuration package provided to each customer. Customer needs to share minimum of the following requirements details with Verifone to create these configuration package as **ccp\_update.xml**.

### For Static connection type:

- Static IP
- SSID
- PSK

### For DHCP connection type:

- SSID
- PSK

Following are some examples of **ccp\_update.xml** with configured values:

### Static type of connection for WiFi

```
<?xml version="1.0" ?>
<data xmlns:d="http://www.verifone.com/adk/information-service/action" d:action="insert_or_update">
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/type" Value="WLAN"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/device_name" Value="WLAN0"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/startup_mode" Value="AUTO"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/dhcp_enabled" Value="0"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/ipv4_enabled" Value="1"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/ipv6_enabled" Value="0"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/ip_address" Value="192.168.10.120"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/netmask" Value="255.255.255.0"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/gateway" Value="192.168.10.121"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/dns_1" Value="8.8.4.4"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/dns_2" Value="4.4.4.4"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/group" Value="AUTO"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/pairwise" Value="AUTO"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/proto" Value="AUTO"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/priority" Value="1"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/ssid" Value="VFI-DEV"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/visibility" Value="HIDDEN"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/key_mgmt" Value="PSK"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/psk" Value="12345678"/>
</data>
```

## DHCP type of connection for WiFi

```
<data d:action="insert_or_update" xmlns:d="http://www.verifone.com/adk/information-service/action">
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/type" Value="WLAN"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/device_name" Value="wlan0"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/startup_mode" Value="auto"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/timeout" Value="0"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/ipv4_enabled" Value="1"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/ipv6_enabled" Value="0"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/dhcp_enabled" Value="1"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/visibility" Value="HIDDEN"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/group" Value="AUTO"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/pairwise" Value="AUTO"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/bss_type" Value="INFRA"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/proto" Value="AUTO"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/key_mgmt" Value="PSK"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/auth_alg" Value="OPEN"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/ssid" Value="DB Internal"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/psk" Value="W0rkingM@ch!n3$?"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/band" Value="5"/>
  <Tag d:condition="*" Name="com/_internal/default/net/WLAN0/wlan_node/0/priority" Value="1"/>
</data>
```

## SCA Parameters

This is the third process to configure the WiFi network. This can be performed by downloading SCA parameters, provided in Parameter Definition File (.vpdx) and Parameter Form File (.vpfx) using VHQ. Following are the list of parameters to be enabled to accept Network parameters and apply to ADK through VHQ Parameter Download.

- ADVCOMMSENABLED
- FORCENETWORKCFG
- REBOOTAFTERPARMDLD

Refer to [Application Parameters](#), [Parameters for WLAN Interface](#) and [Parameters for WLAN\\_NODE Interface](#) sections for the parameter updates on CCP.