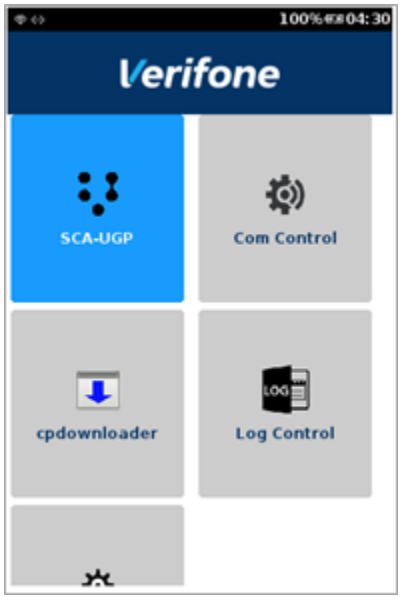
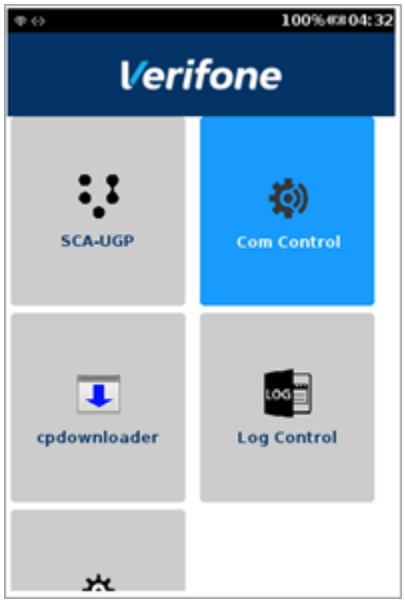
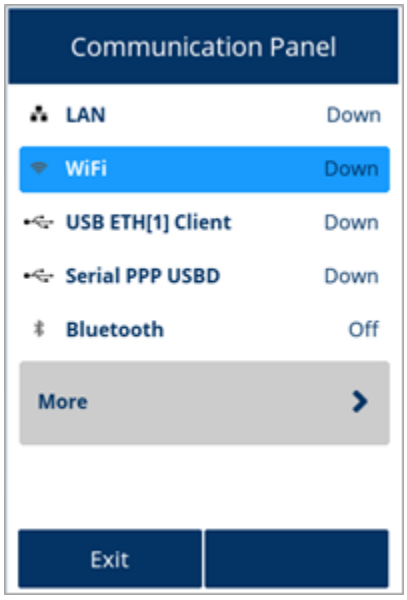
WiFi Configuration

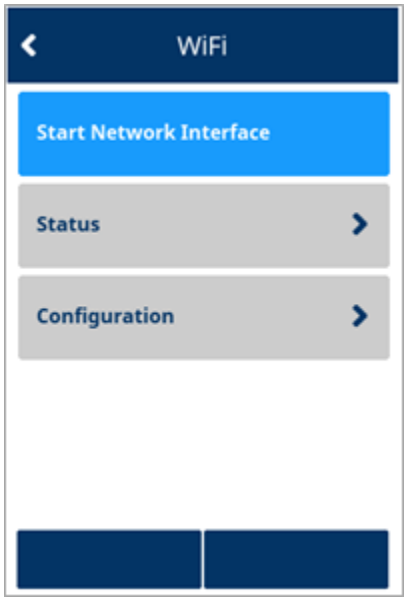
WiFi network can be configured in three ways for SCA application, like using Com Control Panel, updating SCA configuration package (ccpupdate.xml file) and downloading parameter using VHQ.

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**.
	Select Com Control option.

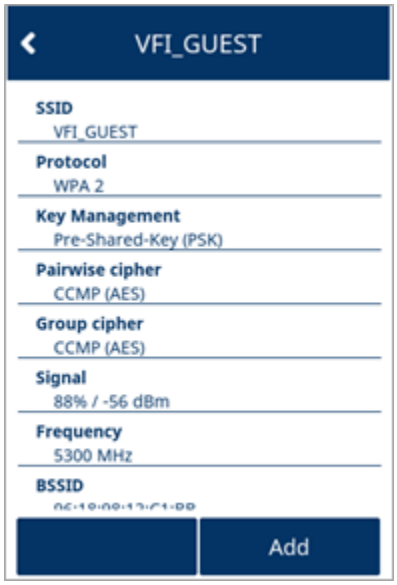
Display	Steps Detail
	CCP screen is starting.
	**Communication Panel** screen displaying the connection status. Select **WiFi** to configure the network.

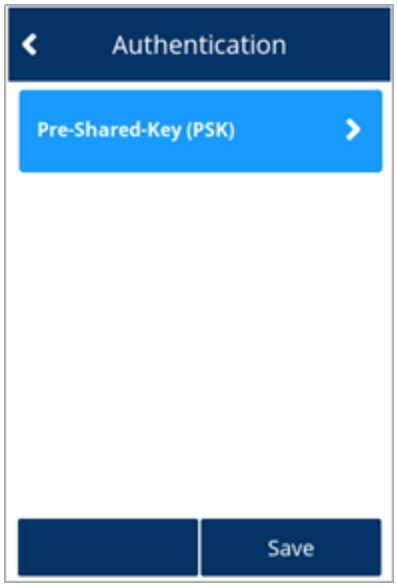
Display	Steps Detail
	**WiFi** configuration page. Select **Configuration** to configure Network communication.
	Enter password screen is displayed. Enter the required password or reach out to *Verifone Contact* for actual password and press Ok or Enter.

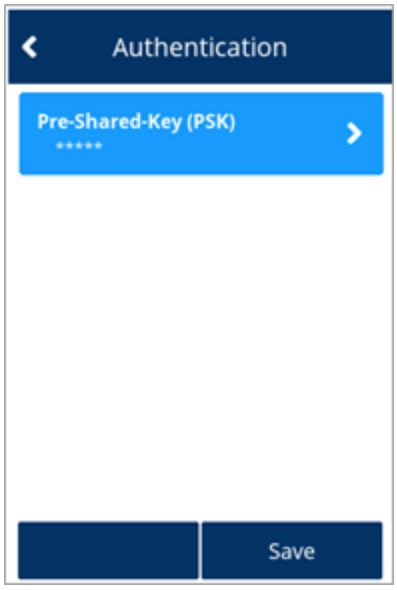
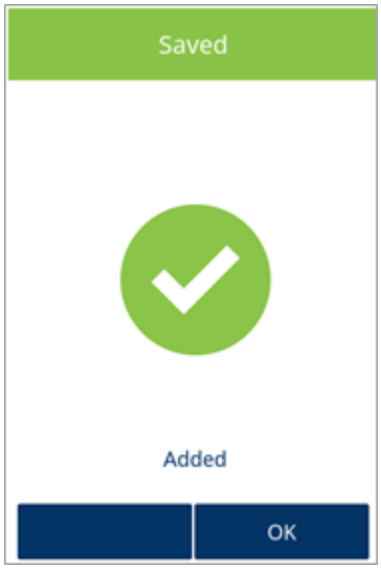
Display	Steps Detail
	**Configuration** page with options to select either New or WiFi Scan.

WiFi Scan

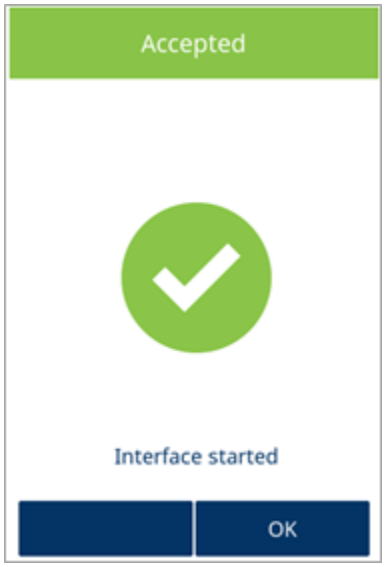
Display	Steps Detail
	Select **WiFi Scan** to check for existing network. Scanning in progress screen.

Display	Steps Detail
	Select the Network name to configure.
	Select **Key Management** to enter the network password.

Display	Steps Detail
	Select the PSK.
	Enter the network password.

Display	Steps Detail
	Select **Save**.
	Notification screen as the network is Added and select OK.

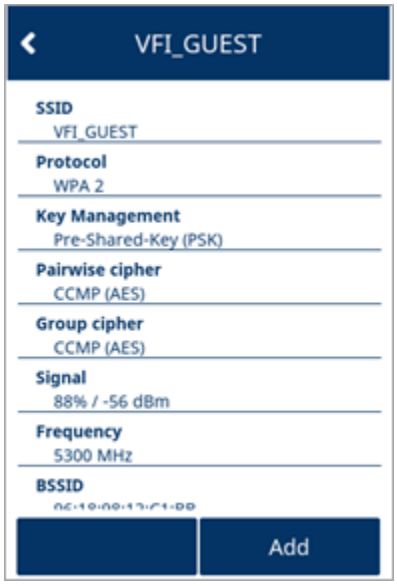
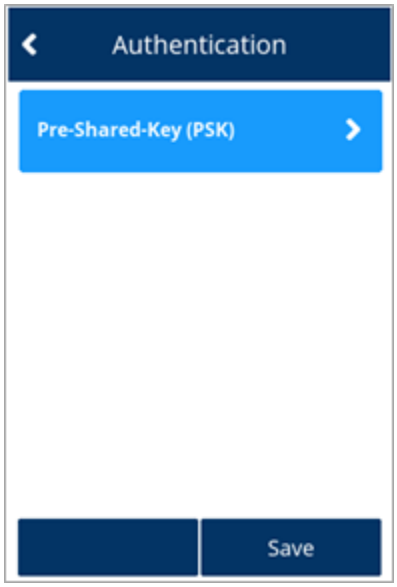
Display	Steps Detail
	Select Yes to apply the settings and to start the network interface.
	Staring the configured **Network Interface**.

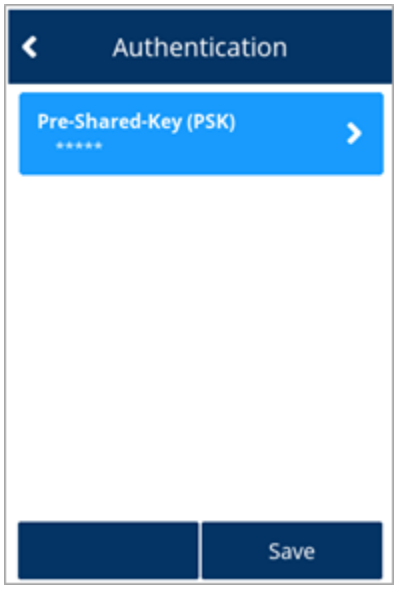
Display	Steps Detail
	The selected network is Configured. Press OK and return to **WiFi** configuration page.

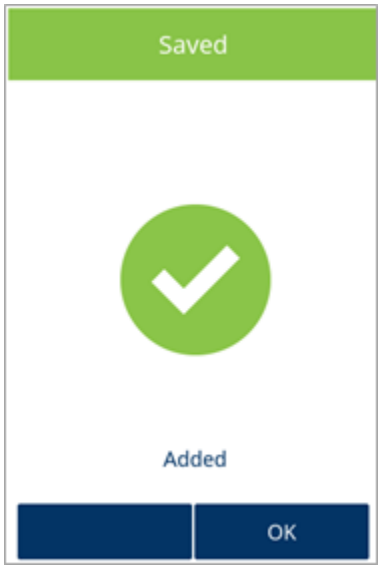
New

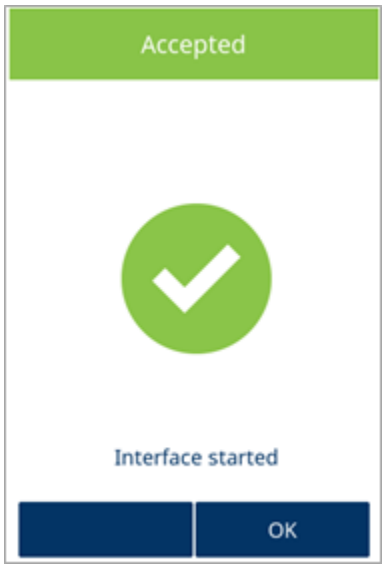
Display	Steps Detail
	Select the **SSID**.

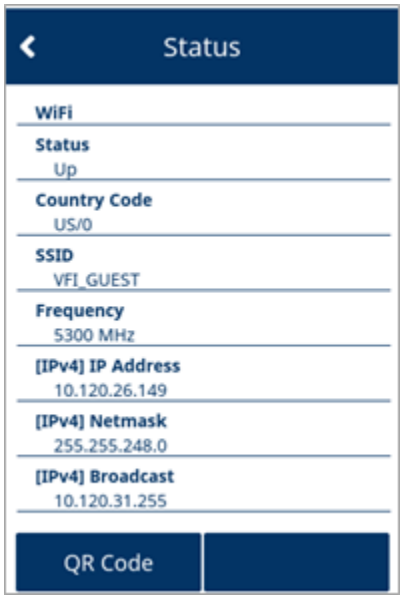
Display	Steps Detail
	Add the network name in SSID field and press OK or Enter.
	The new SSID name is displayed and select **Save**.

Display	Steps Detail
	Select **Key Management** to enter the network password.
	Select the PSK.

Display	Steps Detail
	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.

Display	Steps Detail
	Staring the configured **Network Interface**.
	The selected network is Configured. Press OK and return to **WiFi** configuration page.

Display	Steps Detail
	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

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="W0rk1ngM@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.