Scan2ip user guide

Wireless scanning through WLAN for Android devices

Scan2IP for Android

"getting more out of great hardware"

Software solutions by Norris Print-Tech A/S
Sofiendalsvej 81 • DK-9200 Aalborg SV • Denmark
VAT: DK 25 10 05 73 •
www.scan2ip.com • info@scan2ip.com

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Content

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Welcome to Scan2IP

Scan2IP works as a wireless connection between the handhold scanning device and the computer. In the standard configuration the scanned barcode captured as a keyboard input.
Scan2IP extent the range of the scanning device and the computer by transferring the scanning through the wireless network. The handhold device and the computer just have to be connected to the same network.

Installation

The procedure of installing Scan2IP is divided into 2 parts, first the installation of the handhold device and then installation of the computer host.

Installation device

To install the application on the handhold device please look at the option on the web site. NPT's Host solution can also be downloaded from scan2IP.com

After installing the Scan2IP application, please start the application and accept the agreements.

Licensing the application

To get the functionality of Scan2Ip after the 30 days trial, please license Scan2IP.

On Scan2IP.com you can purchase licenses for Scan2IP. This license is valid for both Android and Win-CE version of Scan2IP. To license Android installations of Scan2IP please login to Scan2Ip. Goto the Devices fan and generate a license. Now press the barcode symbol in the Activation Code column. A PDF with the activation code can be printed.

On the device go to the License menu, in the top left corner. Scan or type in the activation code, press OK if the license is free or the device have been licenses before you get and accept of licenses.

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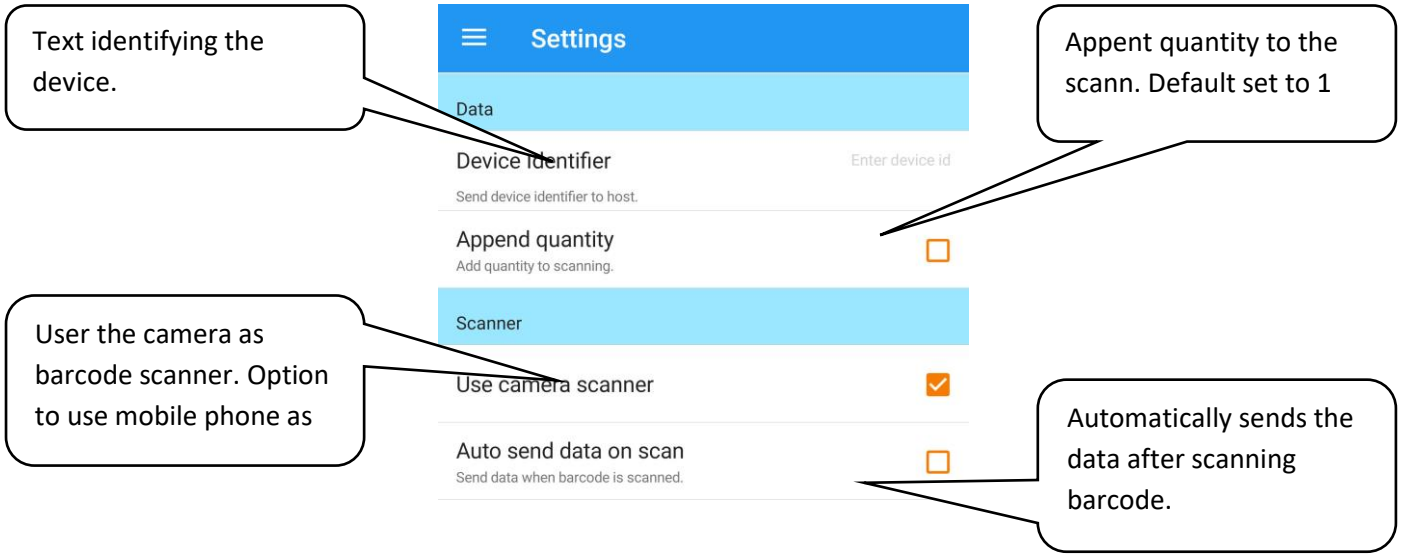
Configuration

Scan2IP can be configured in 3 different data delivery modes. Depending on the application where Scan2IP is used.

General settings

The following settings are general for all data options.



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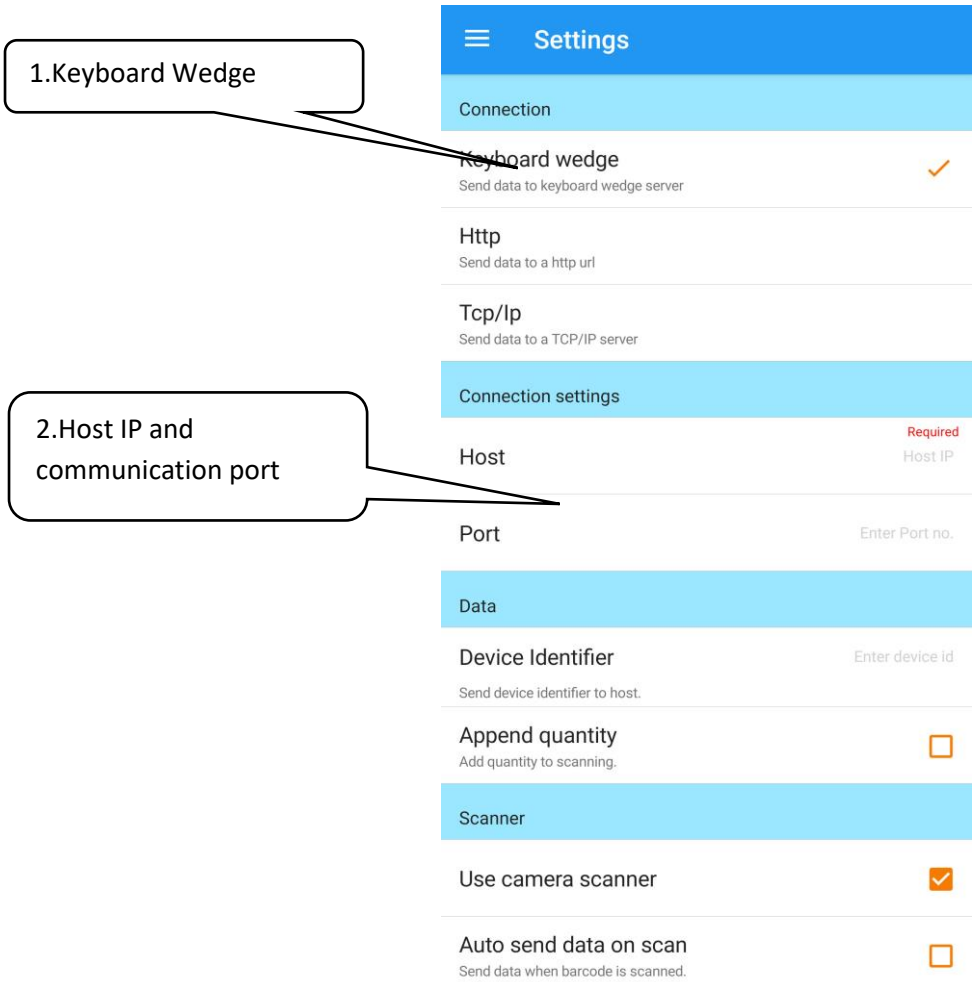
Keyboard wedge

In this mode Scan2IP works as a keyboard on the host side. All scanning's are received on the host as keyboard inputs.

Application setup



Port can free be selected, please note that the firewall has to be open on the network and computer for the port selected. If there is a virus shield also make sure port is open.

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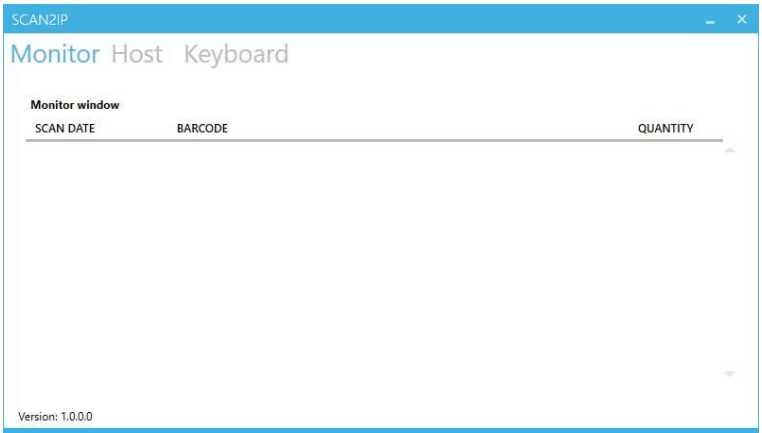
Host setup

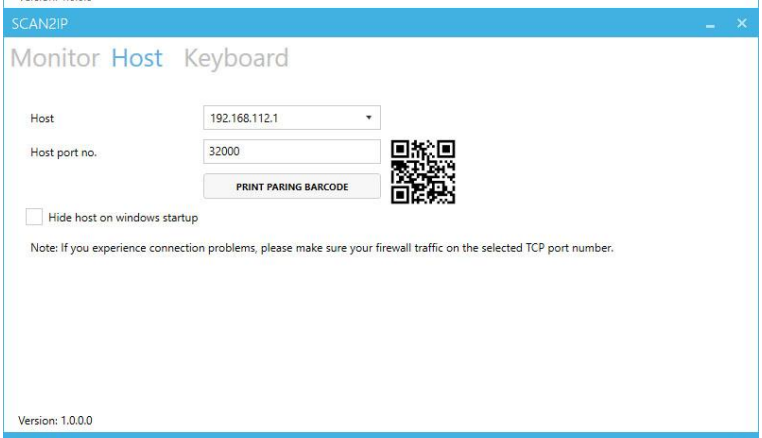
The Keyboard Wedge host can be downloaded from the web page in the section download. Keyboard Wedge is designed to use Windows 7+ or Windows 2010+. Run the installation file after download and configure the host.

Monitor: Is a status screen when data from the scanner can be seen. This is specially use full for monitoring the system.



Host: is the where the setup of the Keyboard Wedge host programis done. Select the IP adress of the computer/server and scan the barcode on the setting menu on the device.

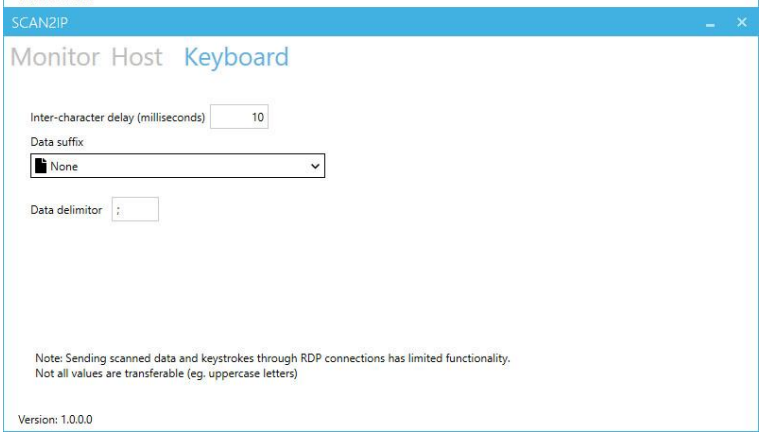
Note: Make sure the firewall and virus shield are open on the communication port.



Delay between character input in the keyboard buffer can be changed.
After receiving data from the device a suffix can be added to the data.

- None
- Enter
- Tab
- Custom, enter the suffix characters.

Data delimiter can be change, default ;



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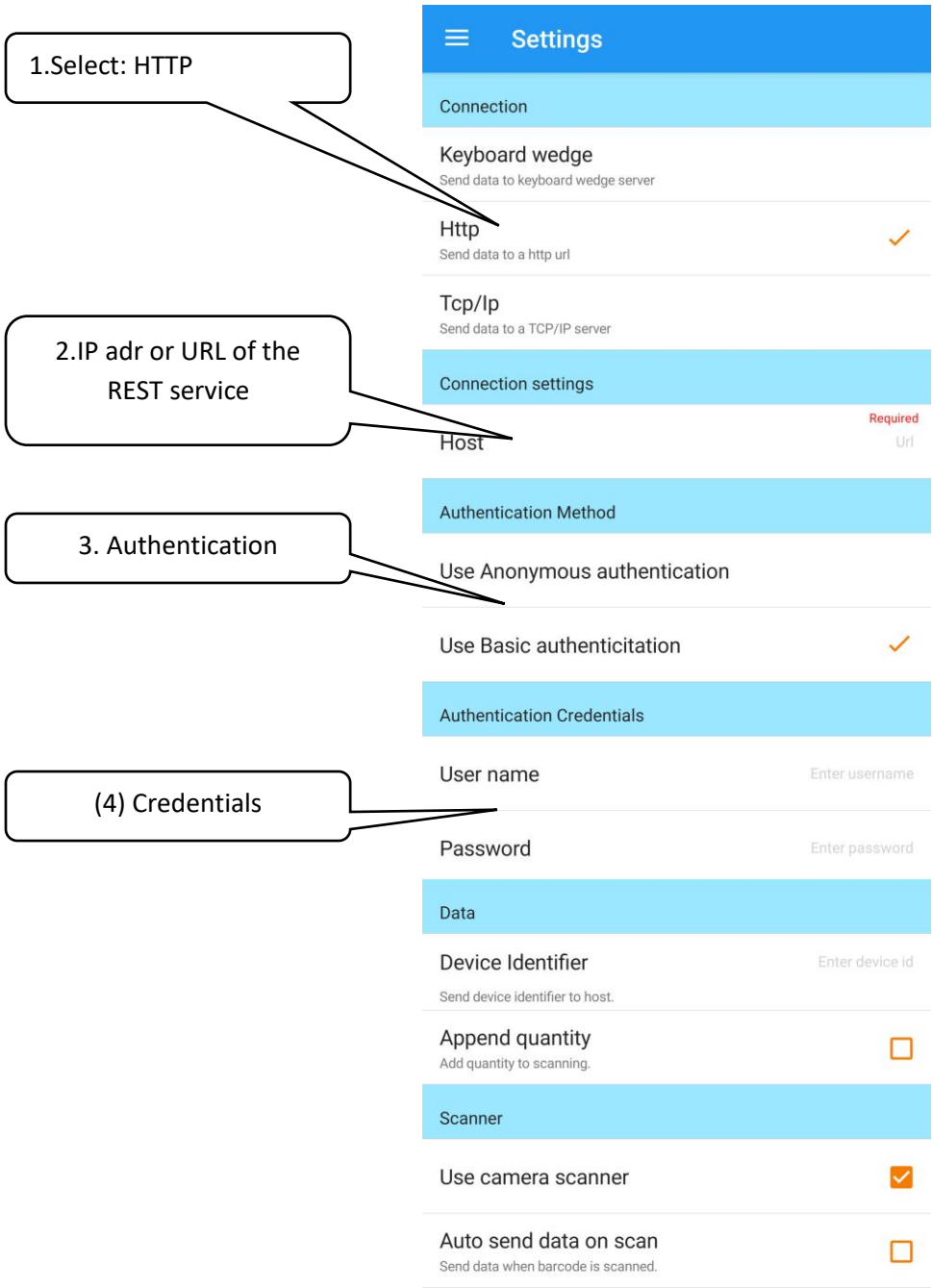
HTTP

Scan2IP can send data to the host as REST api call, this is done with the GET protocol. Service can be used with basic credentials or as an anonymous application.

Application setup



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Host setup

Data are send in JSON format to and from the REST service as describe in the table below:

Call from Scan2IP to Host (JSON)	Response from Host to Scan2IP (JSON)

{
"DeviceIdentifier" : "Entered device id",
"Barcode" : "Scanned barcode data",
"Quantity" : "1"
}
	{
	"statusCode" : "Ok",
	"message" : "Data sent to keyboardbuffer"
	}

DeviceIdentifier is the device name added in the setting. To keep multiple device input separated. Barcode is the information from the barcode scanned by the device. Quantity is the amount registrated in quantity, default value is 1, if quantity is not activated	StatusCode values: • OK, text show in green • Warning, text show in orange • Error, text show in red Message is text show on device.

REST service example in PHP:

URL setup on the terminal: www.mydomain.xxx/service_name.php

```
<?php
$json = file_get_contents('php://input');

// Your code goes here
// Input parameters from Scan2IP:
//                          $json->Barcode
//                          $json->DeviceIdentifier
//                          $json->Quantity

// Return signal to Scan2IP
//                          deliver_response($statusCode, $message)
//                          $statusCode is color on device screen (‘Ok’, ‘Warning’, ‘Error’)
//                          $message message on device screen

function deliver_response($statusCode, $message)
{
        header("HTTP/1.1");
        $response['statusCode'] = $statusCode;
        $response['message'] = $message;
        echo json_encode($response);
}
?>
```

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REST service example in ASP:

URL setup on the terminal: www.mydomain.xxx/service_name.aspx?date=

```
<OperationContract()>
   <WebInvoke(Method:="POST",
         UriTemplate:="MyDataReceiver/?data={data}",
         BodyStyle:=WebMessageBodyStyle.Bare,
         ResponseFormat:=WebMessageFormat.Json)>
   Function MyDataReceiverFunction(ByVal data As String) As DataReceiverResponse
```

Underlying function:

```
   Public Structure DataReceiverResponse
      Public StatusCode As String
      Public message As String
   End Structure

   Public Function MyDataReceiverFunction(ByVal data As String) As DataReceiverResponse Implements
IScan2IpService.MyDataReceiverFunction
      Dim received_json_string As String
      received_json_string = data

      'Your logic here
      'Do whatever you want with the received JSON data

      'Send response to the device
      'The device expects a JSON object with two parameters: StatusCode and message
      Dim response As New DataReceiverResponse

      response.StatusCode = "OK"
      response.message = "Successfully received data"

      Return response

   End Function
```

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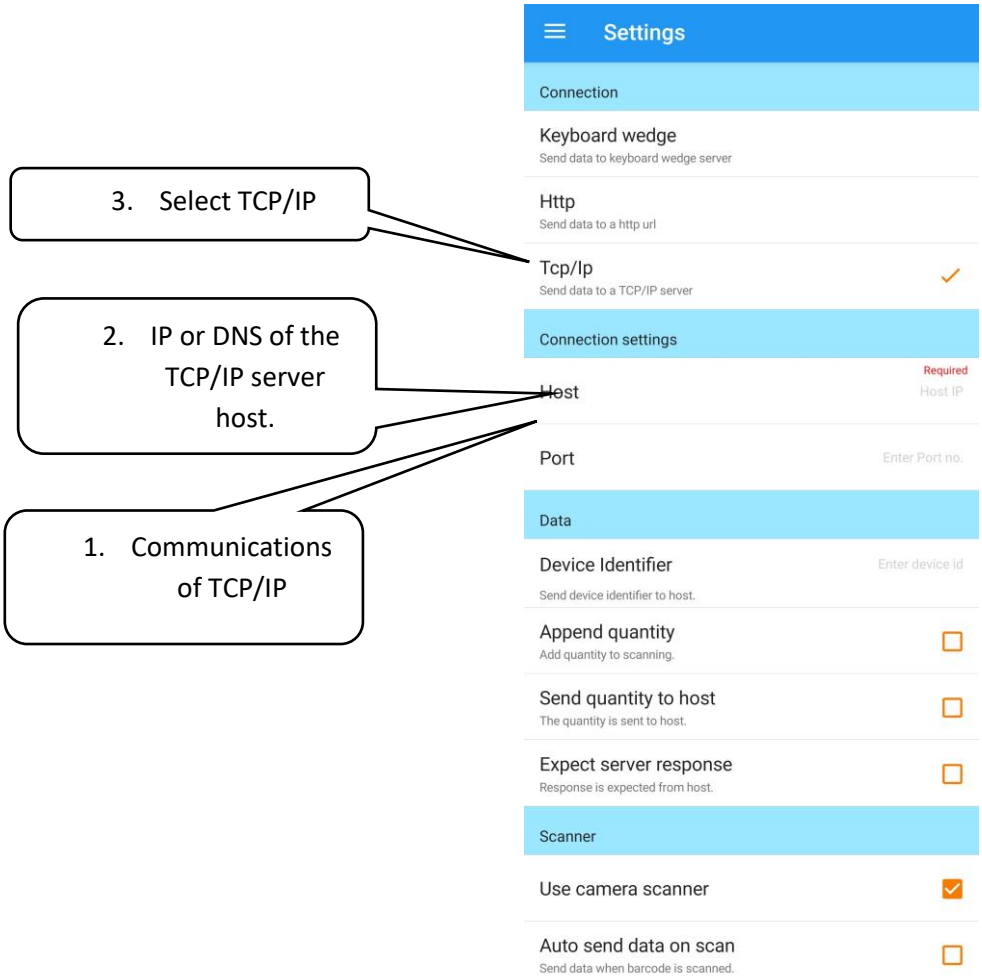
TCP/IP

To send data to the “TCP/IP” host, enable “Tcp/Ip” and enter the host and port no. to match tcp/ip server.



TCP/IP test server:

Testing of TCP/IP function, can be done, by using the free tool “TCP test tool” from Apponic. They also have a description of how to setup the TCP/IP server and client on a Windows PC.

Scan2IP works as a TCP Client and TCP server where information send to Scan2IP is displayed on the device after sending data.

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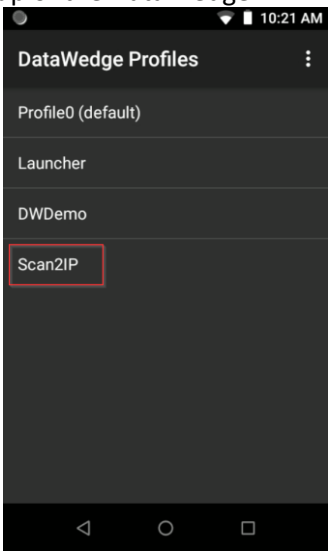
Barcode scanner configuration

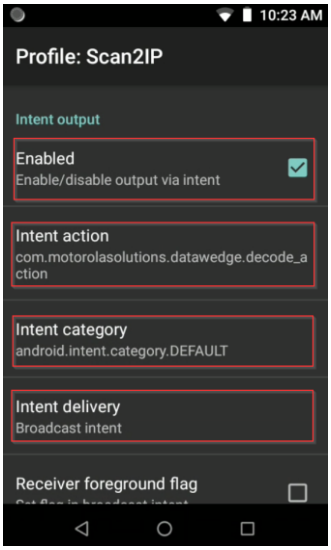
For brand specific devices the following can be used for setting the use of barcode scanner.

Zebra

When starting the Scan2IP application on a Zebra device a DataWedge profile is being created. It contains all information for using Scan2IP on a Zebra device.

For manuel setup of the DataWedge:





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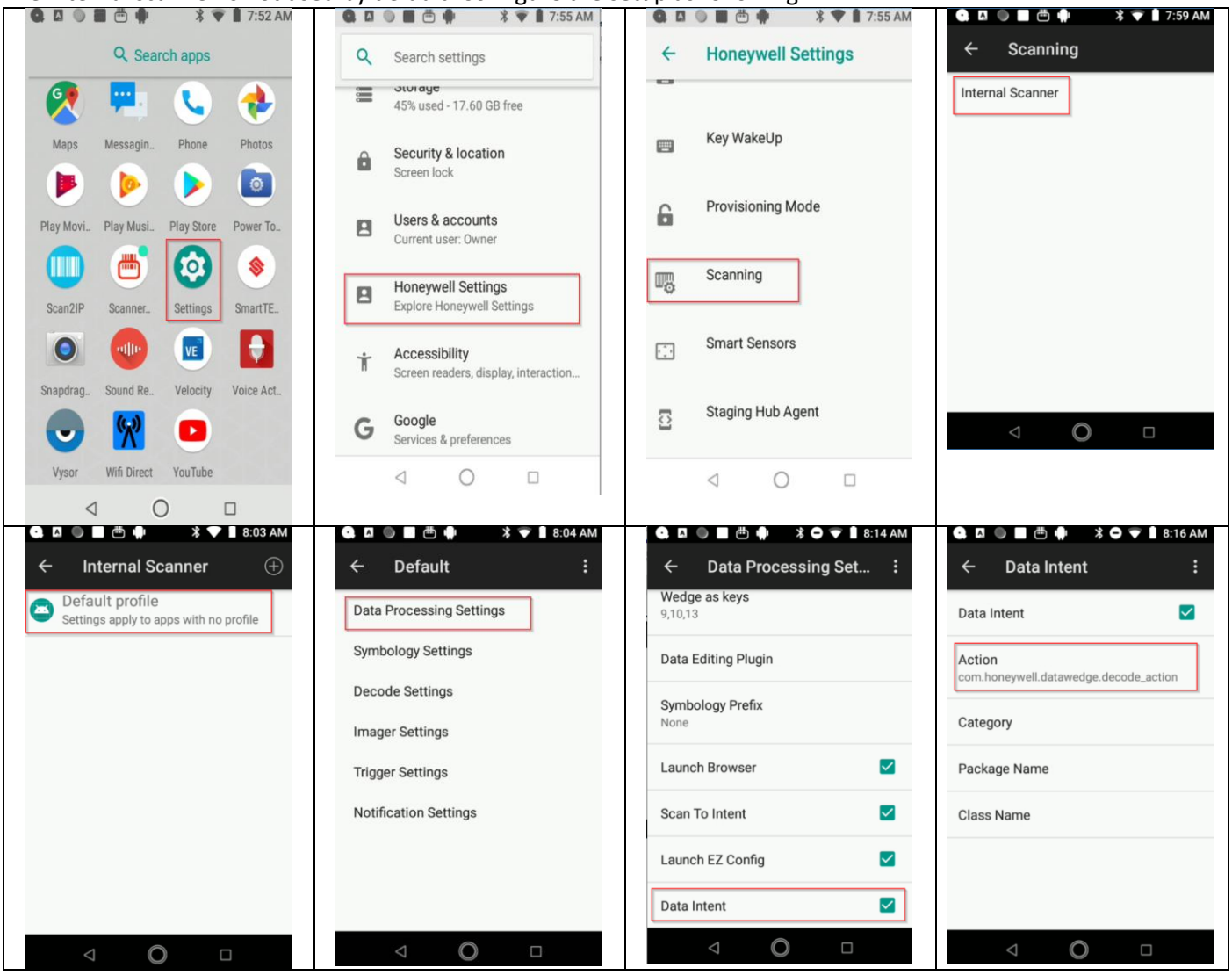
Honeywell

The internal scanner is not used by default. Configure the setup as following:



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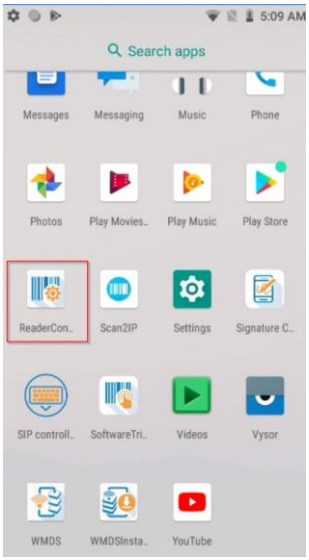
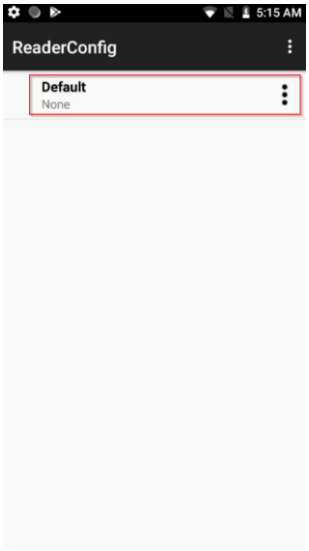
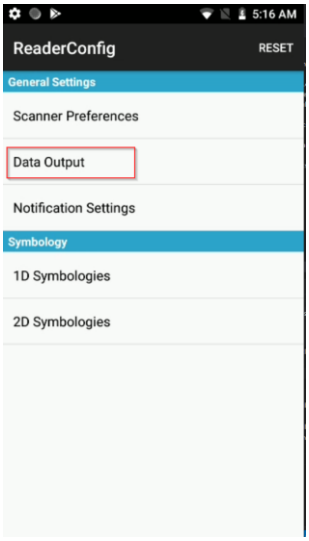
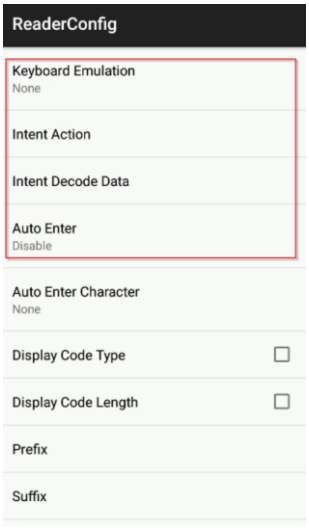
Cipherlab

The use of internal scanner is not installed by default. Configre the ReaderConfig application as following:









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