

# CityUHK IoT Wi-Fi Deployment Guideline

## 1.1

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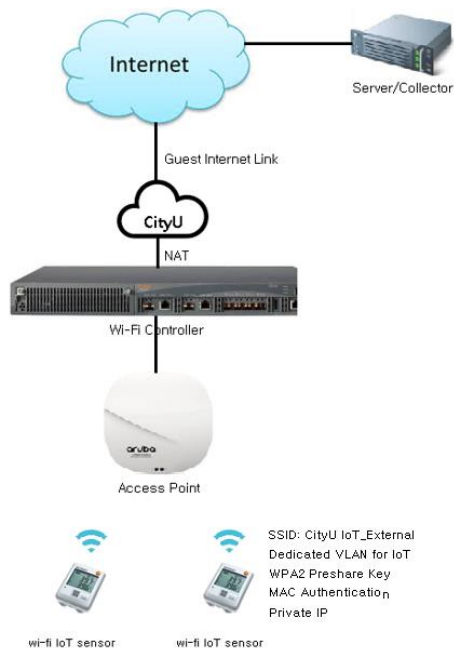
## 1. Introduction

This document defines the requirement of IoT (Internet of Things) devices connecting to the CityUHK campus Wi-Fi Infrastructure, and the configuration procedure required to enable such IoT devices connecting to the CityUHK WLAN.

## 2. IoT Device Requirement

- Support 802.11a/b/g/n/ac connection (802.11 a/ac is preferred)
- Support WPA2-PSK
- Support hidden / non-broadcast SSID
- Support DHCP

## 3. High Level Network Diagram and Parameters



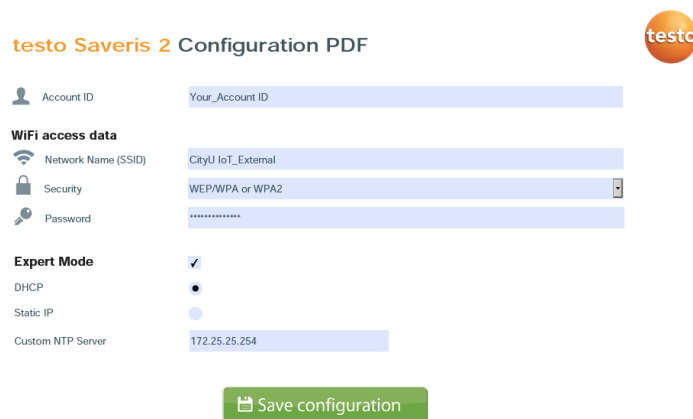
## 4. Wi-Fi Parameters

- Service Set Identifier (SSID): **CityU IoT\_External**
- Basic authentication: WPA2-PSK plus MAC authentication
- IP address for client: 172.25.24.1 – 172.25.25.249
- Network Time (NTP) Server: **172.25.25.254**

## 5. Device Configuration Procedure

You should refer to the configuration guide of your Wi-Fi IoT device for the setup procedures. The sample configuration procedure below is based on the “testo Saveris 2” data logger.

1. Connect the Wi-Fi data logger to a PC.
2. Use the FileManager to open the file **WifiConf.pdf** on the external drive **SAVERIS 2**.



The image shows a screenshot of the 'testo Saveris 2 Configuration PDF' form. The form is titled 'testo Saveris 2 Configuration PDF' and features the testo logo in the top right corner. It contains several input fields and checkboxes for configuring the device's Wi-Fi settings. The fields are: 'Account ID' (with a placeholder 'Your\_Account ID'), 'WiFi access data' section containing 'Network Name (SSID)' (set to 'CityU IoT\_External'), 'Security' (set to 'WEP/WPA or WPA2'), and 'Password' (masked with asterisks). Below these are 'Expert Mode' (checked), 'DHCP' (selected with a radio button), 'Static IP' (unselected with a radio button), and 'Custom NTP Server' (set to '172.25.25.254'). A green 'Save configuration' button is located at the bottom of the form.

3. Copy your **Account ID** and paste it into the relevant field on the PDF form. You will find the Account ID in the testo Saveris 2 software under **Configuration -> Account ID**.
4. Enter “**CityU IoT\_External**”, select “**WEP/WPA or WPA2**”, enter the **pre-share key** and **NTP server** in the relevant fields on the PDF form.
5. Click on the **Save configuration** button.

6. A dialogue box will be opened for exporting the form data. Select the external drive **SAVERIS 2** as the storage location and save the form data (configuration file **WiFiConf\_Daten.xml**) on it.
7. Disconnect the USB connection to the PC to complete the configuration of the logger.

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