

CityU IoT Wi-Fi Deployment Guideline

1.1

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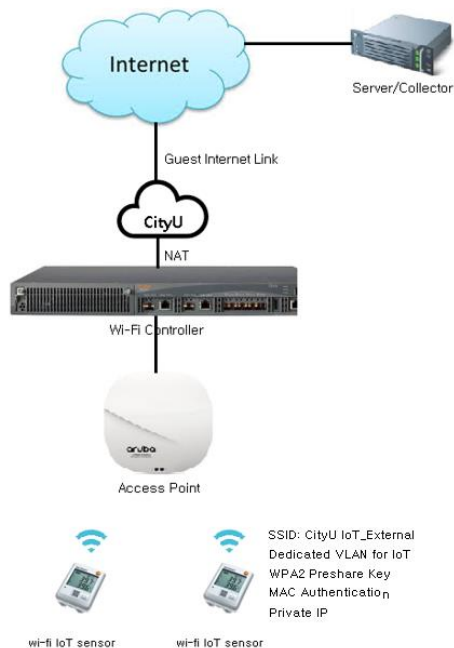
1. Introduction

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

testo Saveris 2 Configuration PDF

Account ID: Your_Account ID

WiFi access data

Network Name (SSID): CityU IoT_External

Security: WEP/WPA or WPA2

Password:

Expert Mode

DHCP

Static IP

Custom NTP Server: 172.25.25.254

Save configuration

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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