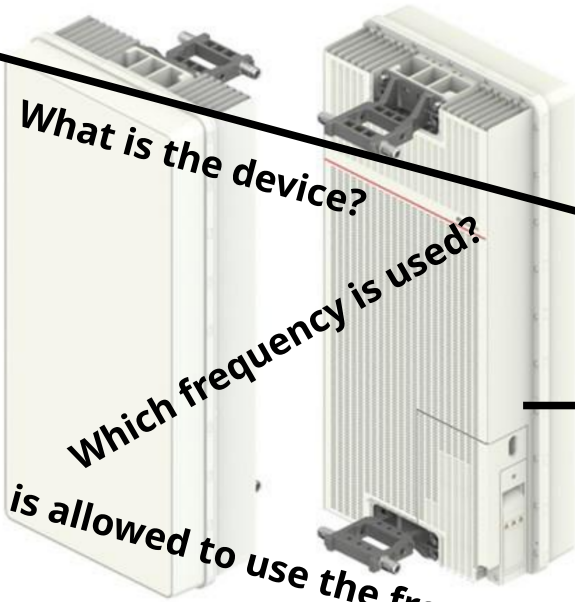


Site 1: FLOWS

In front of Johan Cruyff Arena - Entrance H

2.1.1. 5G base station



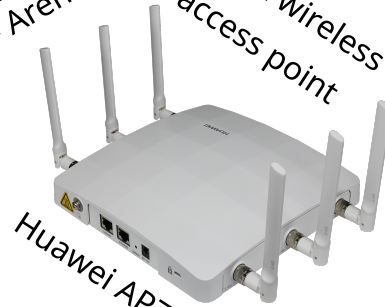
Huawei Active Antenna Unit (AAU) 5613

Technical standard	3GPP Release 15	
Frequency Band	3400Mhz - 3800Mhz	
TX RX channel	64T64R	
Polarization	+45°, -45°	
Gain (dBi)	24	
Horizontal sweep range (°)	-60 - 60	
Vertical sweep range (°)	-15 - 15	

Site 2: LAYERS

Inside Entrance P1 - ArenaA

5Ghz wireless access point



Huawei AP7110DN-AGN

Who gave them the right to use the frequency? Is the allocation national or international?

What service does it implement?

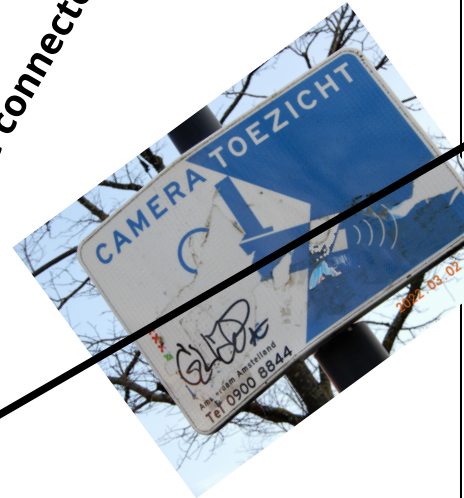
What is the protocol that is used?

What is the use case for the protocols?

Site 3: VISIBILITY

At the map, across Perry Sport

How is the device connected to other devices?



What regulations are impacted?

Is the situation different per EU Member State?

Resources

Smartphone apps:

* WiFi Analyzer

Google



* Architecture of Radio

Google



Apple



Current Dutch frequency map:

<https://www.rdi.nl/binaries/rdi/documenten/brochures/2017/juli/21/overzicht-van-het-nederlandse-frequentiespectrum/Poster+het+Nederlandse+frequentiespectrum+2024.pdf>



Websites:

* Sensoren register

<https://sensorenregister.amsterdam.nl/>



* Antennekaart

<https://antennekaart.nl/>



* Antenneregister

<https://antenneregister.nl/>



5G Infrastructure Walk

The 5G Infrastructure Walk is brought to you by the **critical infrastructure lab** for the Building a Digital Europe course (University of Amsterdam). We research power and contestation in communication infrastructures. One way of doing this is mapping how the electro-magnetic spectrum is utilised, and asking critical questions such as...

"How is the shaping and usage of the electro-magnetic spectrum, through material technologies, companies, states, and regulations, changing society and everyday life?"

The **critical infrastructure lab** aims to co-develop alternative infrastructural futures that center people and planet over capital and control. We produce research insights, policy recommendations, and build community around three overlapping areas: geopolitics — standards — environment.

Frequencies

4G → 800 + 2600 MHz
5G → 700 MHz 3500 MHz
C2000 → 380 MHz
DECT → 1880-1900 MHz
GSM → 880-960
1710-1780
1805-1875 MHz
WiFi → 2412-2472 MHz
5180-5320 / 5500-5700 MHz
Bluetooth → 2402-2480 MHz

More information about the lab:
<https://criticalinfralab.net/>

