

## **SUPPLEMENTARY INFORMATION OF PROPOSED TRANSMITTER AT AFRICA HOUSE, 70 KINGSWAY**

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This document has been produced to provide supplementary information of the proposed technology to be introduced at Africa House to provide Wireless Connectivity to a neighbouring building which is subject to a separate planning application (Weston House).

### **Positioning**

Following changes to the applicant's estate through acquisition of space in a neighbouring building, the newly acquired space needs to be integrated into a wider Network to share established IT services and one of the means to achieve this will be to introduce 2 Wireless radio links between the buildings.

The following sections detail the proposed solution to provide these Wireless links, a description of operational risk, and the positioning recommended.

### **Line of Sight Links**

The physical proximity of these buildings and current unimpeded line of sight available between them makes this form of connectivity completely viable with a significantly reduced deployment timeframes.

### **60 Ghz Millimetre Wave Radio**

The V Band, between 57 & 64 GHz, is available on a Licence exempt basis and these radios can deliver very low latency 1 Gbps links and operate interference free with very high availability (99.999). The product identified for this is the Fastback Networks V1000 Liberator, which is a small form factor antenna (182 x 182 x 65) designed for short distance links.

This technology has multiple channel options which ensure excellent interference immunity when collocating radios on a single pole..

The Antenna beam-width is sufficiently wide to allow for pole sway, tilt or twist, and the signal is less susceptible to environmental conditions.

The proposed product data sheet has been issued separately as part of the planning application.

### **Perceived Health Risk**

The term Microwave can often generate general concerns around impact of potential health risks, however this impact is only apparent at high level power outputs.

These proposed devices operate at a very low power output which means they represent no radiation risk to the general public.

The only recommended precaution is to avoid standing directly in front of a transmitting antenna which the risk, due to the proposed positioning on an infrequently visited and access controlled roof area, has been minimised.

### **Positioning**

The proposed location where these 2 Radio Antennas on the same pole would be mounted are indicated by the Red Dot on the roof plan provided separately as part of the planning application. This location has been selected to observe the recommendation of preventing someone from standing directly within the transmission path, and minimising the potential for interruption of the Line of Sight.

### **Mock Up Photos**

To assist in understanding the visual impact of these devices, a dimensional representation (Orange Dishes) was produced and photographed. This has been provided separately as part of the planning application.