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To whom it may concern,

WipAir 6000/3000 Point-to-Point and Point-to-Multipoint Tx power configuration

According to FCC part 15.247(b):

(1) *The maximum peak output power of intentional radiator shall not exceed 1 Watt (+30 dBm).*

(3) *If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced below the maximum peak power (of +30 dBm) as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.*

That is to say that the maximum EIRP (Effective Isotropic Radiated Power) shall not exceed +36 dBm.

(ii) *Systems operating in 5.8 GHz exclusively for fixed, **point-to-point** operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.*

That is to say that the maximum EIRP can exceed +36 dBm in point-to-point applications.

WipAir 6000/3000 Tx power has 40 dB dynamic range.

The outdoor unit transmit power is configurable using the Link Manager. The Link Manager limits the max transmit power according to the antenna gain, the regulation and the frequency band. The installer, if needed, can select a lower power.

The Link Manager supports two levels of privilege password: regular user and administrator user. Since power output levels will affect compliance of the unit with regulation rules, precautions are built into the system to keep the end user from adjusting the power output level above the regulation limits. Therefore, the following parameters are Configurable only by administrator user only:

- Antenna gain.
- Tx Power.

In Point-to-Multipoint mode, the Link Manager software will automatically reduce the Tx power according to the antenna gain. For example:

- For integrated antenna of 23 dBi, the Max Tx power allowed by the Link Manager is 13 dBm (10 dBm in WipAir 6000) to meet the EIRP limitation of 36 dBm.
- For integrated antenna of 28.5 dBi, the Max Tx power allowed by the Link Manager is 7 dBm (4 dBm in WipAir 6000) to meet the EIRP limitation of 36 dBm.

Sincerely,

Amit Arazi

Application Engineer



WaveIP Ltd. ; Teradion Industrial Park ; Misgav 20179, Israel
Tel: 972-4-902-7000 ; Fax: 972-4-999-0324 web: www.waveip.com