

Deployment Parameters

The current stage of the experimental trial proposes operation from two sites. Each location will deploy directional antennas which will transmit on the 5850 – 6400 MHz band. Specific parameters of proposed operation are detailed in the chart below:

Location 1 – Pleasanton, NE	
Coordinates	40° 58' 28.27"N, 99° 05' 28.21"W
Beam Width in Horizontal Plane	21 ° at half power
Orientation in Horizontal Plane	60°, 120°, 180°, 240° and 300°
Beam Tilt	-2 °

Location 2 – Cairo, NE	
Coordinates	41° 00' 11.37"N, 98° 36' 18.71"W
Beam Width in Horizontal Plane	21 ° at half power
Orientation in Horizontal Plane	0.0°, 30°, 60°, 90° 120°, 150°, 180°, 240°, 270°, 300° and 330°
Beam Tilt	-2 °

Additionally, the trial will deploy up to 200 end users located within a 5-mile radius of the fixed locations, with maximum power of 250 mW/ 4.0 W ERP.