

Deployment Parameters

The current stage of the experimental trial proposes operation from two sites. Each location will deploy two directional antennas which will transmit on the 5900 – 6400 MHz band. Specific parameters of proposed operation are detailed in the chart below:

Location 1 – Bartlett, TX	
Coordinates	30° 47' 39.77"N, 97° 25' 39.37"W
Beam Width in Horizontal Plane	16 ° at half power
Orientation in Horizontal Plane	50° and 340°
Elevation Beamwidth	30 °
Beam Tilt	-2 °

Location 2 – Salado, TX	
Coordinates	30° 56' 30.23"N, 97° 29' 23.27"W
Beam Width in Horizontal Plane	16 ° at half power
Orientation in Horizontal Plane	230° and 320°
Elevation Beamwidth	30 °
Beam Tilt	-2 °

Additionally, the trial will deploy up to 100 end users located within a 5-mile radius of the fixed locations, with maximum power of 24dBm. Applicant seeks authority to use up to 100 units of each of three types of remote transceiver, but will use no more than 100 units total at any one time; 100 of each is specified in order to allow switching from one type to another to test capabilities at specific locations without increasing the overall number of units in simultaneous use.