

**Directional Antenna Configuration and
Antenna Sketch for
Orbital ATK's Experiment at SOCOM TE 15-3**

1.0 OVERVIEW

The planned experiment will involve radiating from different heights up to 10 meters above the ground using a directional antenna mounted on top of an adjustable mast. The beamwidth at the half-power point is 28 degrees. However, the experiment will be conducted on the Muscatatuck Urban Training Center grounds and the antenna will be pointed in different directions during the experiment. The orientation in the vertical plane is expected to be around 0 degrees for the experiments but the antenna may be canted slightly up or down as part of the exercise.

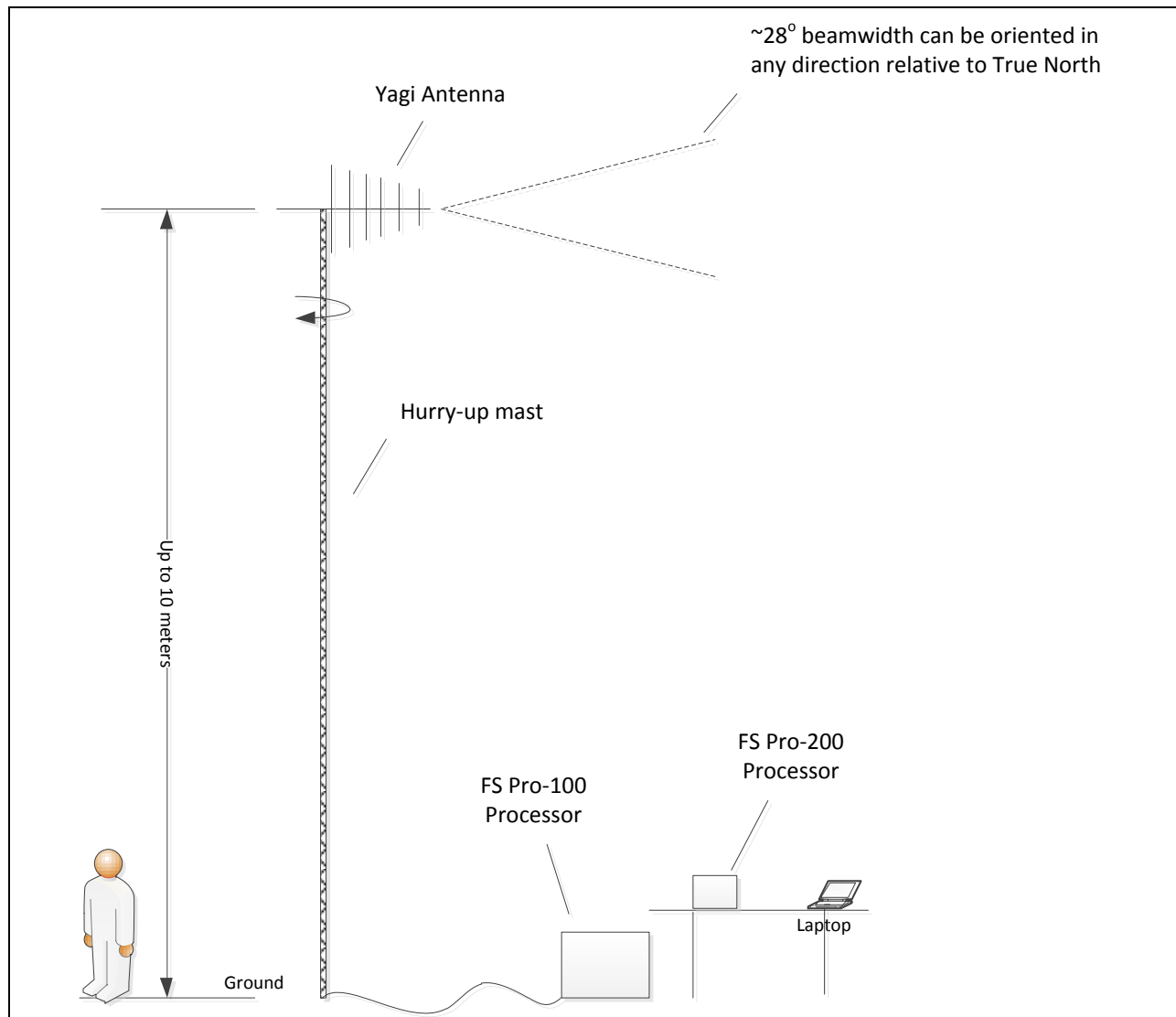


Figure 1-1: Yagi antenna elevated on mast and connected to FS-Pro platforms on ground