Abstract—This paper describes a pragmatic approach on the upconversion of WiMedia compliant UWB signals into the 60 GHz band. This dual band concept is based on propagation measurements at \{3.1-10.6\} and 60 GHz. UWB systems operating in the 3.1 to 10.6 GHz bands are both bandwidth limited and power limited. Therefore, many potential users hesitate to deploy this technology. Up-conversion to the 60 GHz band and enhanced baseband parameters make UWB technology more reliable and hence, more attractive. An experimental system based on a commercially available UWB development kit and IHPs 60 GHz chip-set has been developed. The system architecture is described. Measurement results indicate that this combination may be interesting for many applications.