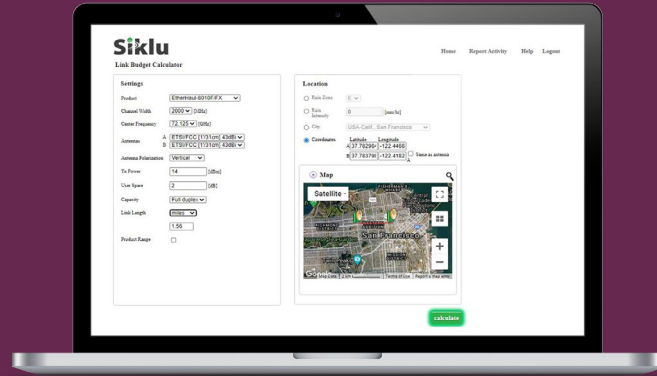




Radio and Network Planning

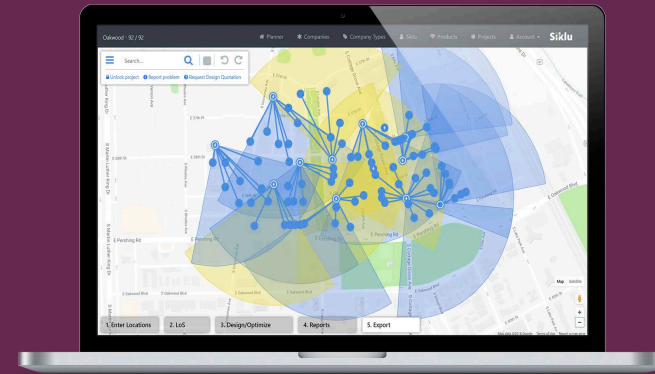


With the Siklu portfolio supporting virtually any topology one can imagine, designing and planning the network can be complicated. Siklu offers two tools to aide you in your design – the **Link Budget Calculator (LBC)** for planning one point to point EtherHaul link at a time, and our **Wireless Network Design Engine or WiNDE**.



LBC gives you the flexibility to design the links to whatever level of availability is required. In building this tool we also took into account the impact of rain. mmWave radios are only affected by heavy rain. Snow, fog or sleet do not impact the range or availability of a mmWave link. When planning your connection, we use weather data from the past 40 years for the specific location of the radio deployment based on GPS coordinates. This is incorporated into the LBC and used to give you availability predictions for that link that are highly accurate.

If your customer or application needs a “five nines” or 99.999% availability, the tool will tell you exactly how far you can go. If your application only needs 99.95% availability, the tool will give you that answer as well. Once relevant data such as GPS coordinates, which Siklu radio you are using, what size antenna and more, the LBC outputs a chart showing availability versus range.



WiNDE is one of the only, and certainly most powerful, automated mmWave network design tools on the market bar none. With the WiNDE tool you mark up the area where you plan to offer service, and our AI software will identify the real location of the homes [internal note: KMZ are 99% based on the address which points to the curb, and not to the actual placement of the home on the lot]. You just identify where the closest fiber POP is located and that's it. The output is a detailed radio network design that is optimized for cost or performance with a Bill of Materials, performance calculations and ensuring Line of Sight for every connection.

WiNDE supports all Siklu products and can design a network with an array of point to point, multipoint, or mesh topologies [internal note: we can't mix the 2 products in the same network] – in one design. These networks can be as simple as a single MultiHaul BU connecting to multiple TUs or a complex MultiHaul TG L2 SDN meshed network with thousands of nodes. Most times we find that the design entails a mixture of products and topologies to serve any given geography.

WiNDE as a design tool is available to Siklu customers on our website. Or, if you are not quite confident about using the tool, or your network is going to be complex, Siklu's Support team stand ready to assist up to and including doing the design for you.