

Small Cell Dark Fiber

With the explosion of mobile devices, the demand for data is spreading and climbing at an unparalleled pace. This growth is quickly exposing gaps in mobile network coverage where there is not enough capacity to handle peak traffic or enough reach to serve users. Wireless carriers are turning to the deployment of small cell sites to fill these gaps because the cells provide a pin-point solution, adding capacity and coverage precisely where it is needed.

When carriers deploy small cells, they need to extend, or front-haul, their network to reach the small cells. This front-haul connectivity must have maximum performance and scalability; otherwise, it becomes a bottleneck.

Segra Dark Fiber is ideal for the speed and growth needs of small-cell front-haul networks, providing physical connectivity with high capacity and minimal latency. Segra supplies dark fiber between each small cell and the centralized Base Band Unit (BBU) at the macro cell site. The carrier provides the equipment needed to light the fiber, as well as the systems and resources to monitor and manage the lit services.

CONTROL

Dark Fiber provides the freedom to choose the network equipment and protocols that best meet a carrier's specific needs.

SCALABILITY

With Dark Fiber, network capacity is easily increased as bandwidth requirements grow.

PERFORMANCE

Segra Dark Fiber delivers physical connectivity without network protocols that can introduce latency.

COST-EFFECTIVE

As bandwidth increases, monthly Dark Fiber lease costs remain consistent and predictable.

SECURE

Dark Fiber offers a private, fully dedicated physical network infrastructure to secure corporate data.

FEATURES

- Dark fiber – available on Segra metro and long-haul footprint
- Network construction competency – Dark Fiber leverages Segra's core competence in building new fiber networks
- Premium regional data network – available to connect the small-cell front-haul network to Mobile Switching Centers (MSCs) on the back-haul network