

SES CellBackhaul

Enabling MNOs to deliver quality connections in more places

6.3B

Unique mobile subscribers by 2030

55%

Population without access to 4G



While the global mobile economy continues to grow—there will be 6.3 billion unique mobile subscribers by 2030—regional variations and growing user expectations highlight the different challenges faced by mobile network operators (MNOs.) On one hand, near saturation in high-income countries has created an expectation of ubiquitous availability and a reliance on mobile broadband access in everyday life. On the other hand, low-income countries account for 55% of people without access to 4G, representing potential for growth that is hampered by the difficulty in economically extending services to those regions.

The tier-1 alternative to terrestrial backhaul

CellBackhaul for cost-efficient network expansion

CellBackhaul is SES's complete mobile backhaul managed service that enables MNOs to quickly and cost-effectively expand 2G/3G/4G/5G/ IoT coverage into under-served and unserved areas previously considered unreachable due to economic and feasibility challenges of traditional terrestrial backhaul.

- SES's team of expert engineers will collaborate with your engineering team to understand your business needs and user expectations
- SES will design an end-to-end solution, supported by guaranteed Service Level Agreements, connecting your core network to any number of towers or cell-on-wheels vehicles
- We'll determine the right amount of capacity to support peak usage across the network, meeting Quality of Service requirements and minimizing costs
- You'll leverage the flexibility of reliable GEO (geostationary orbit), high-throughput towers or cell-on-wheels vehicles), and managed multi-orbit satellite technologies
- SES will work with you throughout the initial deployment process and provide ongoing managed services and 24/7 support

With SES, MNOs can expand services by quickly and cost effectively connecting hundreds, even thousands of sites beyond the barriers often associated with terrestrial backhaul, reaching new markets, improving user satisfaction, and creating new opportunities for growth.

Benefits at-a-glance



Global satellite & terrestrial network
Expand coverage virtually anywhere, without fiber



Handoff to your network
Terrestrial handoff to your core network



Expert services
Rely on industry experts for complete cellular backhaul managed services and 24/7 support



Economical & efficient
Acquire only the capacity needed to cost-efficiently provide reliable coverage from 2G to 5G across hundreds or thousands of remote sites



Reliable quality of service (QoS)
Bandwidth distributed to every site based on network traffic needs and voice and data QoS requirements



Multi-orbit technologies
GEO, MEO, and multi-orbit service to address your business needs



Learn more about our purpose-built satellite and connectivity solutions at ses.com

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The flexibility to seize opportunities

SES CellBackhaul is a fully managed satellite-powered cellular backhaul service where SES manages all the satellite components connecting towers to your core. With quick deployment time and economical delivery of connectivity to enable reliable 2G/3G/4G/5G/ services, you can address an array of regional- and population-specific challenges:

- Remove white spaces in rural and remote areas, reaching new subscribers while also providing existing subscribers with connectivity everywhere they live, work, and travel.
- Extend services to areas where it's not economically feasible to use microwave or fiber backhaul.
- Keep customers happy by using auxiliary satellite backhaul that keeps users connected during unexpected terrestrial backhaul failures.
- Quickly enable post-disaster communications services for both first responders and impacted communities with on-demand backhaul for COW/COLT deployments.
- Shift capacity from region to region to address needs as seasons change or to support short-term spikes in demand due to large gatherings.
- Introduce services with less risk using packaged, managed solutions that reduce the risk of expanding into new areas.