

# Extending Reliable Connectivity to Every Corner of Japan

Together with a leading mobile operator, SES powers thousands of rural cell sites with fully managed tower connectivity.



**Industry**  
Telecommunications

**Location**  
Japan



### About the MNO

In the thriving, commerce-driven country of Japan, cellular customers expect reliable, high-speed cell service everywhere. One of Japan's predominant network operators set its sights on upgrading its current network and expanding 4G (and eventually 5G) coverage to even the most remote regions in the country.

## Customer challenge    How we helped

### Provide reliable 4G connectivity in remote areas without adding complexity to a massive network.

One of the country's leading mobile network operators (MNO) sought to extend the same fast, reliable connectivity that served customers in urban centers to their customers in rural areas.

To deliver on this mission, the MNO needed a solution that would connect thousands of cell sites in remote locations. Relying on a terrestrial network alone would not only be cost-prohibitive, but downtime risk would be high for those customers who needed connectivity most.

They needed an affordable solution that would ensure uninterrupted cellular connectivity, provide peace of mind for customers and comply with strict company standards.

### Implemented a fully managed tower backhaul solution with 24/7 support through a Japanese network operations center.

Working closely with the MNO to understand their operational and service level requirements, SES created a solution using CellBackhaul, its fully managed, end-to-end service that extends the MNO's network to users in rural regions. CellBackhaul combines SES high-throughput satellite (HTS) capacity, new terrestrial infrastructure including geo-redundant teleports, VSAT hubs, and the SES Japan network operations center – JNOC.

A dedicated managed services team facilitated project management and implementation. In addition, to 24/7 support from the JNOC, backup support is provided via SES's Global NOC located in the United States.



## Leveraging the versatility of SES's multi-orbit portfolio

SES's multi-orbit portfolio provides the flexibility to engineer networks around real MNO requirements. The thousands of sites powered by CellBackhaul Japan leverage the proven performance of SES's global GEO (geostationary orbit) constellation for connectivity that delivers wide-area coverage, point-to-multipoint scale, and predictable, SLA-backed performance across all the remote cell sites. The result is nationwide expansion with carrier-grade availability, operational simplicity, and the consistency required to support thousands of towers at scale.

## Results

**Fully managed satellite backhaul solution simplified operations and allowed the MNO to focus on core business**



Cost-effective urban and rural backhaul with 100% coverage leveraging SES high-throughput satellites.



Fully managed solution with best-in-class operations and flexibility for highly variable demand.



Full-time SES Japan NOC operations with backup from the SES U.S. NOC.

**Network redundancy guaranteed highest operational standards and continuity**



SES's Japan teleport infrastructure with platform redundancy for highest network availability.



Fully geo-redundant teleports ensure network resiliency in the event of natural disasters.

**Positive impact on safety, security and economics**



Delivered the 4G performance promise of supporting backhaul at peak speeds of 100Mbps+.

Solve.  
Empower.  
Soar.



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information on this  
project, please visit  
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