CONNECTING GLOBALLY: DC BLOX REDEFINES HYPERSCALE CABLE LANDING STATIONS

Myrtle Beach SC

DC BLOX

connected data centers for digital business

DC BLOX Cable Landing Station

INDUSTRY SITUATION

The Global Internet is a complex network across all continents of the world that is underpinned by an expansive system of subsea fiber optic cables. The accelerating scale of digital communications and the need for richer user experiences in accessing content is driving demand for higher levels of broadband capacity, including a new generation of international subsea cables.
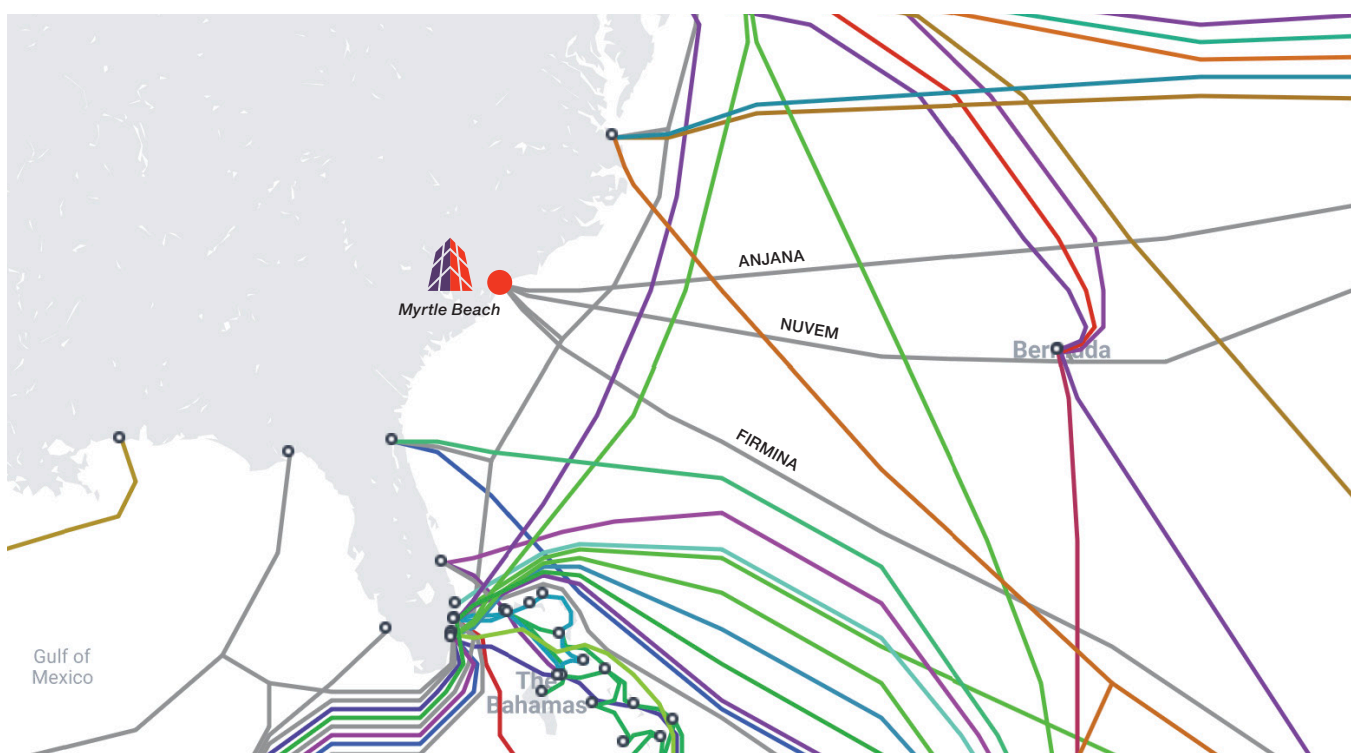
While the early subsea cables of the Internet era were deployed by telecommunications carriers, hyperscale cloud providers are driving demand for the next generation. These providers are reshaping the subsea cable market with larger cables, higher bandwidth speeds, and landing locations that optimize delivery to their hyperscale data centers around the globe.

These changes are also driving the creation of new, innovative Cable Landing Stations. The hyperscale-friendly CLS must support much higher levels of equipment, conform to modern data center standards of reliability and security, and provide strategic site selection that matches the hyperscale network footprint.

In partnership with global hyperscale partners, DC BLOX is redefining the hyperscale Cable Landing Station with its new facility in Myrtle Beach, South Carolina.

DC BLOX APPROACH

The DC BLOX Myrtle Beach CLS is strategically located on the South Carolina coast between other cable landing locations in Florida and Virginia Beach, where it offers direct access to the rapidly expanding hyperscale data center footprint in the Southeast. The location provides geographic diversity among existing cable landings on the Eastern seaboard and facilitates regional connectivity to the rapidly growing Atlanta area and to Ashburn, VA.

Courtesy: TeleGeography 2024 Submarine Cable Map

The state-of-the-art, reliable, repeatable design of this facility will support up to 5 subsea cables. The facility will support flexible power generation configurations including multi megawatt AC power and managed rectifiers for DC power feed equipment.
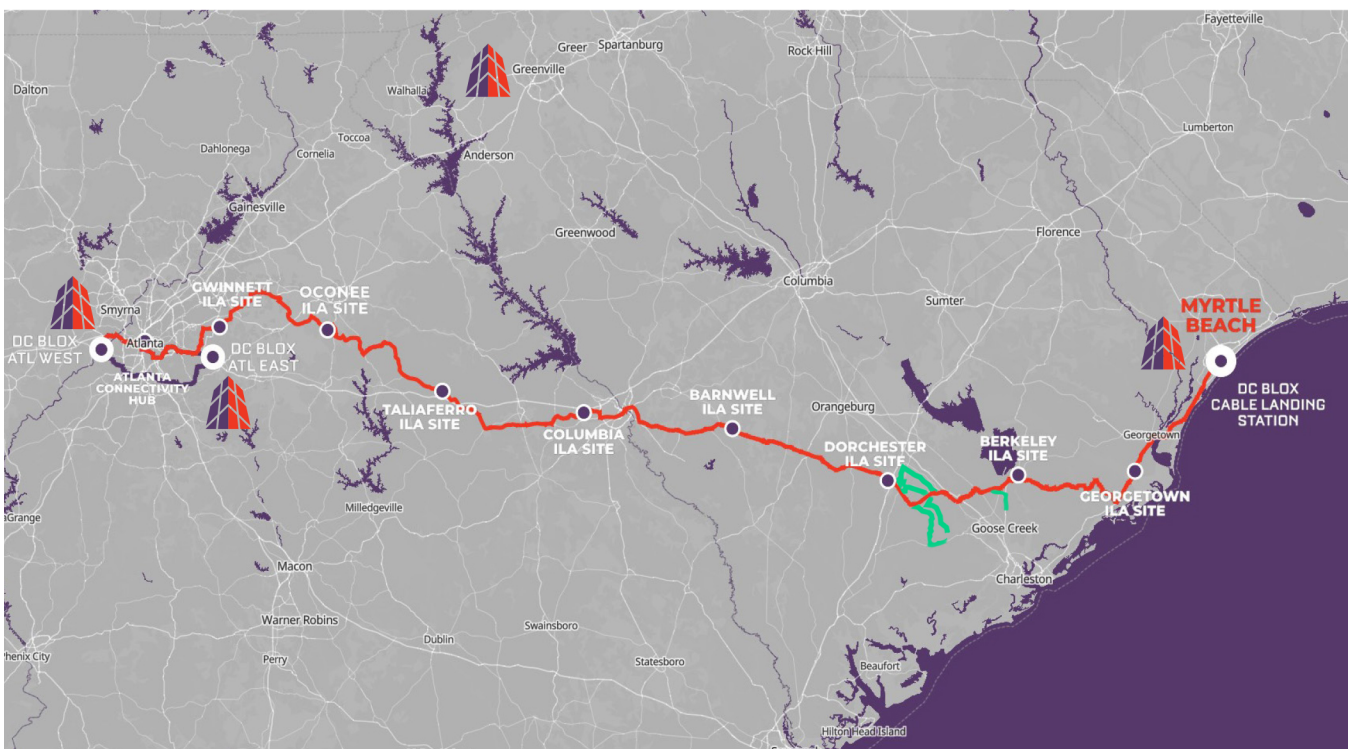
Key Features of the DC BLOX Myrtle Beach Cable Landing Station:

- 170mph sustained hurricane wind-rated pre-cast construction and protected equipment yards
- Power capacity up to 15MW
- 2N power generation, UPS, and switch gear
- Indirect adiabatic and evaporative cooling for efficiency and sustainability, N+1 redundancy
- Colocation space for cable-operators, communications providers, and partners
- Myrtle Beach is well-positioned to become a node on core fiber paths from Northern Virginia to Atlanta providing geographic diversity and resiliency from current fiber routes
- Uptime Institute Tier III concurrently maintainable design and SOC 2 Type II compliant

While Myrtle Beach is an attractive location for many cable providers, DC BLOX will also build cable landing stations to suit specific client requirements.

DARK FIBER TO ATLANTA

Landing a subsea cable in Myrtle Beach facilitates access to Atlanta and the growing data center and connectivity ecosystem of the Southeast region. For this purpose, DC BLOX has built a high-capacity, wholesale dark fiber route for lease from the Myrtle Beach Cable Landing Station to Lithia Springs, Georgia connecting through Charleston, Augusta, and downtown Atlanta's major connectivity centers. The route offers significant capacity to meet customer needs as well as a duct bank for future strategy.

DC BLOX BACKGROUND AND EXPERIENCE

Founded in 2014, DC BLOX has been progressively perfecting the design and construction processes of its modular, interconnected, mission-critical data center facilities. We have a proven track record in the delivery of greenfield, purpose-built facilities and typically produce new data centers in under 30 weeks.

- Scalable designs that support success-based deployment from 1MW to 60MW+
- All facilities designed and built to Uptime Institute Tier III requirements (Birmingham certified)
- Strong security focus with compliance to SOC 2 Type II, NIST 800-171, and HIPAA/HITRUST with a design that supports up-scope to more stringent security standards
- DC BLOX Connectivity eXchange (DCB-CX) platform enables interconnectivity across the Southeast region with carriers, Internet Exchanges, and cloud providers
- Robust ecosystem of business partner and government relationships in the Southeast that facilitate rapid land acquisition, construction, operations, and connectivity
- Well capitalized and supported by leading investors from Bain Capital and Post Road Group

NEXT STEPS

DC BLOX has the design, construction, operations, networking, and security experience to meet the needs of today's subsea cable landing stations.

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