

Article Overview

Angola's fiber optic network integrates domestic and submarine systems, connecting provincial capitals and international hubs through Angola Cables' SACS and WACS cables, supported by the National Broadband Network expansion.

Domestic Fiber Optic Network

Angola is actively expanding its terrestrial fiber optic backbone to connect all 18 provincial capitals and major municipal seats, aiming to extend broadband access to underserved communities . The National Broadband Network (NBN) project involves deploying approximately 1,980 kilometers of new fiber, targeting around 3 million additional Angolans who currently rely on mobile networks . This network uses modern switching and routing equipment to manage traffic efficiently, ensuring connectivity between urban centers and remote areas.

Submarine Cable Systems

Angola's international connectivity is anchored by Angola Cables, which operates key submarine systems:

- o South Atlantic Cable System (SACS): Provides a direct link between Angola and Brazil, reducing latency for transatlantic data transfer and positioning Angola as a digital hub between Africa and South America .
- o West Africa Cable System (WACS): Connects Angola to South Africa and onward to Europe, offering redundancy and high-capacity international links . These submarine cables are integrated with domestic fiber networks through switching nodes that manage traffic between local and international routes, ensuring resilience and low-latency connectivity.

North Submarine Cable System (UNSC)

The UNSC, inaugurated in Cabinda, extends the national fiber network to northern provinces, connecting Cabinda and Zaire through dual routes--one with repeaters and one without--enhancing redundancy and coverage . This system allows seamless switching between routes to maintain service continuity in case of cable faults or maintenance.

Network Management and Switching

Angola's fiber optic infrastructure relies on modern optical switches and routers to manage traffic across domestic and international links. These switches enable:

- o Dynamic routing between provincial networks and international submarine cables.
- o Load balancing to optimize bandwidth usage.

Angola Fiber Optic Cable Switch

o Redundancy switching in case of cable cuts or maintenance, minimizing service disruption . Edge caching and Points-of-Presence (PoPs) deployed by Angola Cables in multiple cities further enhance network performance and reduce latency for end-users .

Strategic Impact

The integration of domestic fiber, submarine cables, and advanced switching infrastructure supports Angola's digital transformation goals, including broadband penetration targets of 60% by 2027, improved e-governance, and enhanced connectivity for sectors like education, healthcare, and petroleum operations . The network's design ensures that Angola maintains national control over critical communications pathways, reducing dependence on third-party systems and enhancing resilience. In summary, Angola's fiber optic cable switches operate within a robust, multi-layered network that combines domestic fiber expansion, submarine cable connectivity, and advanced switching technology to provide reliable, high-speed internet access across the country and internationally.

Yohann Bernard, Oil & Gas General Manager of Alcatel-Lucent Submarine Networks, said: "After connecting Angola to

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Angola Angola Cables Angola Cables plans to deploy fibre in Malawi, Zambia and Zimbabwe Angola Cables"

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Angola's government fiber backbone is the largest single piece of telecommunications infrastructure in the country. Spanning

Artur Mendes is CCO of Angola Cables, a multinational telecommunications operator of subsea fiber optic cables. Built

Analysis of Angola's digital infrastructure investments including fiber optic networks, Angola Cables submarine cable systems

Latest FTTH updates April 2025: Angola Cables, Telefonica Peru, Orange Morocco, Open Fiber Italy, MTN Nigeria, Vivo Brazil, and

With extensive experience in the construction of Fiber Optic accesses, having so far built 2000 km of Fiber



Angola Fiber Optic Cable Switch

Optics from Backbone,

Angola Cables is a dedicated wholesale carrier, whose core business is the commercialization of capacity in international for voice

Comprehensive mapping of Angola's terrestrial fiber optic infrastructure -- national backbone, provincial connectivity, FTTH

Details on Angola Cables including IPs, network ranges, ASNs, PoPs, edge CDNs, and applications.

Angola Cables and Nokia announced at AfricaCom 2019 that they have collaborated to provide a direct optical

Luanda - Angola is due Tuesday to be linked, via a terrestrial fibre optic cable, from the central western province of Benguela, to the

Conexão Profunda

Angola Cables is the leading South Atlantic submarine fiber optic cable system developer owner and wholesale operator. We do

Web: <https://millstraining.co.za>

