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NOKIA
Connecting People

□ **Nokia has announced that Angola Cables is trialling Nokia's Photonic Service Engine 3 (PSE-3) chipset for the first direct optical connection between the USA and Africa. The route provides direct, low-latency trans-Atlantic routing and greatly simplifies the turn-up of services to better serve rapidly growing data consumption markets in Africa.**

Subsea fiber-optic cables form the backbone of the global internet, connecting countries and continents across vast trans-oceanic distances. The new services leverage the interconnection of two existing subsea cable systems – SACS (South Atlantic Cable System) and MONET. SACS, owned and managed by Angola Cables, operates between Fortaleza, Brazil and Luanda, Angola and is connected to AngoNAP Datacenter. The consortium-owned MONET connects Santos/Fortaleza with Florida/USA.

Combining SACS and MONET subsea systems in this joint trial allows for the first time 300 Gbps of traffic between Miami and Luanda.

The test adds more capacity to an already low latency network. Lower-latency network connections improve performance and user experience in applications such as cloud computing and content consumption. According to the ITU, sub-Saharan Africa has recorded the highest growth in internet use globally over the past decade, from under 10% of the population in 2010, to over 28% in 2019. Enhanced subsea connectivity is crucial for access to global content and services of this growing user base.

The subsea wavelengths were deployed with [Nokia's 1830 Photonic Service Interconnect](#) (PSI) data center interconnect (DCI) platform utilizing the PSE-3. The 1830 PSI provisioned optical wavelengths at 300 Gbps using probabilistic constellation shaping (PCS) to optimally shape the signals to the specific characteristics of the 12,635 km cable, achieve operation near the theoretical limits of the system.

Fernando Azevedo, Technical Director at Angola Cables, said: “With Nokia’s PSE-3, Angola Cables can optically interconnect the MONET and SACS submarine fiber optic cables, enabling more capacity and a further reduction in latency between content providers in North America and the rapidly growing data consumption markets in Africa.”

Sam Bucci, Head of Optical Networking at Nokia, said: “Africa is a strategic growth market for Nokia across both our core CSP and webscale businesses. We are proud to partner with Angola Cables to apply our ground-breaking PSE-3 technology to a unique and challenging subsea route, helping to deliver enhanced services to a rapidly developing part of the world.”

About Angola Cables

Angola Cables is a multinational company operating in the global ICT marketplace providing

tailored connectivity solutions for the wholesale and corporate segments. With a robust subsea cable infrastructure and highly interconnected IP network, Angola Cables offers customers greater access to the world's largest IXP's, Tier 1 operators and global content providers.

Through SACS, Monet and WACS submarine cable systems the company directly connects the Americas, Africa, and Europe and has established partnerships to reach Asia. Angola Cables' manages the Tier III Data Center AngoNAP Fortaleza (Brazil) and the Data Center AngoNAP Luanda (Angola) as well as the PIX facility in Brazil and Angonix - one of the largest Internet Exchange Points (IXP's) in Africa.

The company offers a range of digital services across multiple industries from customised Cloud solutions to digital gaming resources. For more information, visit our website: www.angolacables.co.ao/en/

About Nokia

We create the technology to connect the world. We develop and deliver the industry's only end-to-end portfolio of network equipment, software, services and licensing that is available globally. Our customers include communications service providers whose combined networks support 6.1 billion subscriptions, as well as enterprises in the private and public sector that use our network portfolio to increase productivity and enrich lives.

Through our research teams, including the world-renowned Nokia Bell Labs, we are leading the world to adopt end-to-end 5G networks that are faster, more secure and capable of revolutionizing lives, economies and societies.

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