

**PADTEC HOLDING S.A.**

## **PRESS RELEASE**

### **Padtec launches a new generation of very high-capacity transponders at a meeting of internet providers**

Campinas, SP, June 11, 2024 – PADTEC HOLDING S.A. (“Padtec” or “Company”, B3: PDTC3) announces that a new generation of transponders for DWDM (Dense Wavelength Division Multiplexing) networks, with very high data transmission capacity, will be the main attraction at Padtec's booth at the Abrint 2024 National Meeting, which takes place between the 12th and 14th of June in São Paulo. This is the 15th edition of this meeting promoted by Abrint – Brazilian Association of Internet and Telecommunications Providers, which annually brings together ISPs from across the country interested in learning about trends and technological innovations aimed at this segment of the market.

Padtec's highlight at the event is the launch of the first transponder of its new LightPad Max line, a product platform for DWDM networks developed with the aim of meeting market demands for ever-increasing transmission capacity. The new product – which underwent testing in a live environment on the Brisagnet (<https://www.brisagnet.com.br/>) provider's network – is a disaggregated (or standalone) dual transponder with two interfaces of up to 1.2 Tb/s each and a total capacity of 2.4 Tb/s per unit, for use over medium, long and ultra-long distances. Its main advantage, compared to previous generations of transponders, is the reduction in the cost per bit transmitted in coherent optical systems, with high energy efficiency.

“One of the technical innovations of the new LightPad Max line is the rate of transmitted symbols, which will reach 140 Gbaud, double the available in current equipment”, highlights Argemiro Sousa, Chief Operations Officer for Equipment at Padtec. “With a higher symbol rate, it is possible to achieve greater transmission capabilities in DWDM networks using a smaller number of channels, which represents cost savings per bit and a significant reduction in energy consumption”, he explains.

In the field test carried out on Brisagnet's DWDM network, Padtec's new transponder showed excellent performance, transmitting 800 Gb/s per optical channel between the cities of Juazeiro do Norte and Pereiro, both in Ceará state. The link is approximately 350 kilometers long and passes through the municipalities of Lavras, Cajazeiras, and Pau dos Ferros – until it reaches Pereiro, a city with just over 16 thousand inhabitants that houses Brisagnet's headquarters. This transmission capacity was higher than that achieved by competitor products, also tested on this same segment of the network.

Brisagnet already uses Padtec equipment in its network, including ROADM (reconfigurable optical add/drop multiplexer) and transponders with a transmission capacity of 400 Gb/s. “With this new generation of transponders, it will be possible to increase the efficiency and use of the network infrastructure, which will have a greater traffic capacity per optical channel”, emphasizes João Paulo Estevam, Operations Director at Brisagnet.

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All products in this new DWDM line will be manufactured in Brazil and can be financed through credit lines offered by Padtec – among them, FIDC Funttel Padtec, financing through BNDES, Finep, “vendor financing” with private banks, and “forfait” operations for international sales.

**About Padtec** ([padtec.com](http://padtec.com))

*Padtec is a Brazilian multinational company that strives to bring high-capacity connections to life throughout Brazil, the Americas and around the world. From the small town to the bustling metropolis. For every person, for every type of business. With over 20 years of history, we are honored to work together with our customers to offer services capable of bringing people together. By this collaboration and living and breathing technology, we go where no one else goes. We venture to use our knowledge to design new futures and keep up with a world in constant evolution. This is our way of leveraging connections to create new realities.*

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