Padtec completes Florida LambdaRail Installation

Miami, Fla. – May 4, 2015 – Padtec, a global manufacturer and solutions provider of turnkey optical solutions, announces today that it has completed the installation of a Padtec 100G Open Wave for FIU/AMPATH over the Florida LambdaRail (FLR) backbone. AMPATH, a project at Florida International University (FIU), is an Open Research and Education (R&E) Exchange Point (RXP), operating as a Platform of Network Innovation. AMPATH serves U.S. science research and education communities by managing a production-level international exchange point, connecting a diverse community of national and international R&E networks.

FLR, Florida's Research and Education Network, is an independent research and education network owned and operated on behalf of its partner institutions and affiliates. As part of a global research and education community, FLR provides accessibility and connectivity to an advanced, highly scalable broadband network (100Gbps by July 2015) that is designed to meet the ever-growing needs of Florida's research and education community.

In support of the FIU OpenWave/Atlantic Wave project FLR engineers integrated 100G transponders from Padtec as an Alien Wave over the FLRWave (Cisco ONS) DWDM platform. The insertion of the Padtec alien 100G optical signal from Padtec equipment installed at Jacksonville and Miami through the FLRWave system was provisioned without any regeneration between FLR optical PoPs located in Miami and Jacksonville.

"We are pleased to be able to support FIU/AMPATH and Padtec with the joint experimentation, testing and deployment of the 100G Alien Wave as a key first step to extending and integrating that wave into the AtlanticWave" said FLR CEO Joseph Lazor. "As we complete our 100 G backbone upgrade, we look forward to enabling more successful initiatives like this one in the future".

An LLC partner institution of FLR, Florida International University, is supporting this project through a Memorandum of Agreement with FLR to improve research and education network connectivity north from Miami, FL where the AMPATH International Exchange Point is located.

"This install marks Padtec's very first deployment of its compact 4RU i6400 chassis, with a two-node implementation on the eastern seaboard of Florida, from Miami to Jacksonville, and 100G Alien Wave deployment over about 340 km," said Enrique Lozoya, Padtec VP Engineering Sales. Ultimately, this network will be part of a larger one Padtec has undertaken with FIU's NSF supported OpenWave project over the LANautilus submarine network. FIU's Dr. Julio Ibarra, NSF awardee said, "OpenWave is part of Americas Lightpaths (AmLight), a production infrastructure for communication and collaboration between the U.S. and Western Hemisphere science and engineering research and education communities and the newly available bandwidth will insure significant growth for academic networking between the U.S. and Brazil."

OpenWave is a breakthrough undertaking which connects the US to Brazil via an experimental ("alien") 100 Gigabits/second wave (optical transmission channel) by means of optical hardware that has never before been field tested over the distances involved. OpenWave will use an already operating international undersea cable system to bridge the route between Miami, FL., and São Paulo, Brazil, including a 5600km submarine link between St. Croix, U.S. Virgin Islands and Fortaleza, Brazil. Additionally, AtlanticWave-SDX: a distributed experimental SDX, supporting research,

experimental deployments, prototyping and interoperability testing, on national and international scales will utilize the upgraded infrastructure.

“Padtec is proud to work with Florida LambdaRail,” says VP Lozoya of Padtec. “We are confident that this install will help further their continued goal of providing research institutions with connectivity. Our equipment is designed to aid in projects exactly like this one, and we look forward to a continued partnership as well with the OpenWave project.

Offering carrier-class optical platforms and equipment, Padtec embraces an innovative approach to developing cost-effective, and reliable optic communication systems to address long-haul, data center, and submarine network requirements.

About Padtec: Padtec is a global manufacturer and solutions provider of turnkey optical solutions. The company offers products that span very compact modules to corporate access and data center interconnection, long-haul terrestrial backbone and complete submarine multi-terabit solutions. Padtec takes you at the speed of light from you to the world, with operations in North America, South America, Central America, Europe and Asia. The company, headquartered in Campinas, Sao Paulo Brazil, is the first and largest Latin American manufacturer of optical networking equipment. With a strong focus on research and development, Padtec develops custom solutions for global networks leveraging pioneering technology and robust mission critical support. For more information about Padtec, please visit http://www.Padtec.com.br/eng/ or email usa@Padtec.com.

About CIARA: Florida International University’s Center for Internet Augmented Research and Assessment (CIARA), in the Division of IT, has developed an international, high-performance research connection point in Miami, Florida, called AMPATH (AMericasPATH; www.ampath.net). AMPATH extends participation to underrepresented groups in Latin America and the Caribbean, in science and engineering research and education through the use of high-performance network connections. AMPATH is home to the Americas Lightpaths (AmLight) high-performance network links connecting Latin America to the U.S., funded by the National Science Foundation (NSF), award #ACI-0963053 and the Academic Network of São Paulo (award #2003/13708-0)(http://www.ciara.fiu.edu).

About Florida International University: Florida International University is an urban, multi-campus, public research university serving its students and the diverse population of South Florida. We are committed to high-quality teaching, state-of-the-art research and creative activity, and collaborative engagement with our local and global communities. FIU is Miami's first and only public research university, offering bachelor's, master's, and doctoral degrees. FIU is number one in the nation in awarding bachelor’s and master’s degrees to hispanic students. Designated as a top-tier research institution, FIU emphasizes research as a major component in the university's mission (http://www.fiu.edu).

About Florida LambdaRail: FLR is the regional optical network of Florida, formed as a consortium of the Florida’s research universities, to support their research and education missions. (www.flrnet.org).

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