

## Frontier Selects Adtran's Total Access System for ADSL Delivery; Total Access DSLAMs Will Expand Broadband Services Throughout The Frontier Network

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HUNTSVILLE, Ala. - (BUSINESS WIRE) - March 16, 2004 - Adtran(R), Inc. (NASDAQ: ADTN), The Network Access Company and leading provider of telecommunications equipment, today announced the selection of Adtran's Total Access(R) DSLAMs for the deployment of ADSL-based services by Frontier, A Citizens Communications Company. Frontier is one of a large number of major Independent Telephone Companies in the United States deploying Adtran DSLAMs across their entire footprint.

"The Total Access System will integrate easily into our network, allowing us to expand ADSL delivery throughout our customer base," states David Frezza, Vice President of Network Planning and Support for Frontier. "The interoperability, scalability and economics of Adtran's DSLAMs make it an excellent choice for our DSL deployment expansion."

The Total Access 3000 is utilized in the central office and remote terminals for new installations and retrofits. The Adtran system accommodates rural, low-density subscriber areas equally as well as dense, metropolitan locations. The Total Access 3000 functions as a traditional DSLAM and can also provide IMA Aggregation for the entire network utilizing interfaces that range from DS1 to OC-3c. Frontier will incorporate the Total Access Element Management System (EMS) to provide the user interfaces and functionality required to provision, monitor and maintain DSL and other broadband services across the entire network.

Frontier will also deploy the Total Access 1210 for remote locations. This Mini-DSLAM provides Frontier with a cost-effective solution for small to medium service areas. Scalable to 96 ports, with a common network interface, the Total Access 1210 is equipped with 24 ADSL ports and integrated splitters. It is sized to accommodate typical line counts and take rates that may vary. Just 1U high with front panel access, the Total Access 1210 is temperature hardened and NEBS Level 3 compliant.

Adtran understands the needs of Telcos and Service Providers and designs products such as the Total Access 3000 and Total Access 1210 to meet cost, operational and growth objectives for its customers.

About Frontier, A Citizens Communications Company

Citizens Communications Company (NYSE:CZN) provides wireline communications primarily to rural areas and small and medium-sized cities and towns throughout the United States under the name Frontier. Citizens also provides competitive local exchange carrier (CLEC) services through its Electric Lightwave subsidiary. For more information about Citizens Communications, visit <a href="https://www.czn.com">www.czn.com</a>.

## About Adtran

Adtran, Inc. is one of the world's most successful network access equipment suppliers, with a 16-year history of profitability and a portfolio of more than 1,300 solutions for use in the last mile of today's telecommunications networks. Widely deployed by both carriers and enterprises alike, Adtran solutions enable voice, data, video, and Internet communications across copper, fiber, and wireless network infrastructures. Adtran solutions are currently in use by every major domestic service provider and many international ones, as well as by thousands of public, private and government organizations worldwide.

Adtran products are RUS accepted and feature a five or ten-year warranty on every product. For more information, contact the company at 800 9ADTRAN (800 923-8726) or via email at info@adtran.com. On the Web, visit <a href="www.adtran.com">www.adtran.com</a>.

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