

# FedLine<sup>®</sup> Access Solutions Network Diversity

Network Diversity is a service that is designed to provide geographical redundancy for FedLine access solutions that currently utilize a Dedicated Wide Area Network (WAN) connection. This service reduces the risk of disruption to both your primary and secondary circuits in the event of a failure along a single geographic circuit path.

## Dual Circuits

A Dedicated WAN connection utilizes two circuits for technical redundancy. In the event of a disruption in the primary circuit, network traffic is automatically rerouted to the backup circuit so that transaction processing continues without interruption. However, in a typical Dedicated WAN configuration, the primary and backup circuits follow the most efficient route through the network, often the same geographic route. A failure at a single point along that path could disable the routing of traffic along both circuits, resulting in a service disruption.

## Circuit Diversity Minimizes Risk

The Network Diversity service helps minimize the risk of a disruption to both the primary and secondary circuits by routing the circuits along different geographic paths, to the greatest extent possible. Therefore, a failure along the primary circuit is unlikely to impact the secondary circuit.

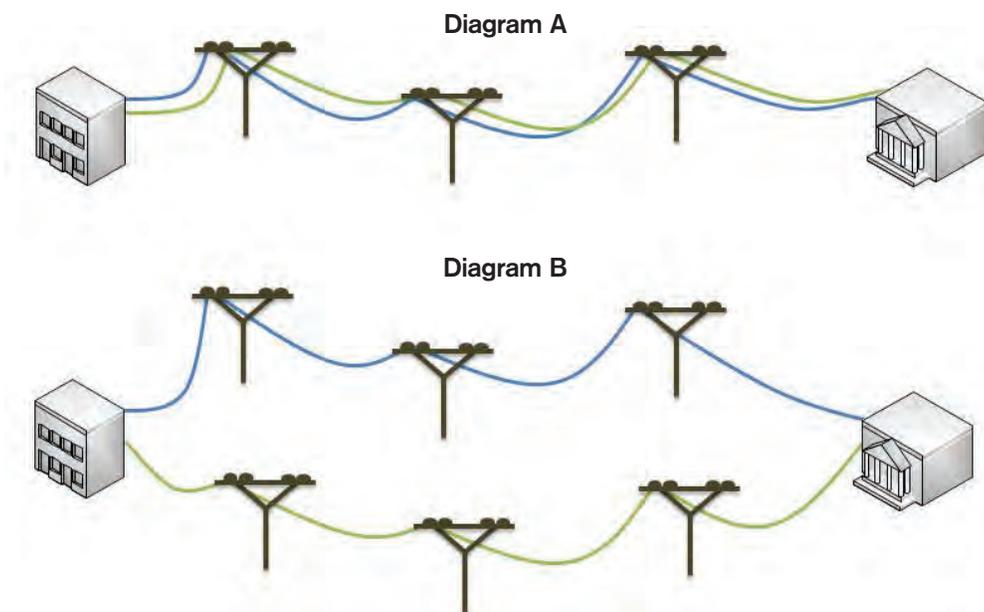


Diagram A illustrates a typical Dedicated WAN route.  
Diagram B depicts a Dedicated WAN route setup up with Network Diversity.

## Create and Maintain Diverse Circuit Routes

The Federal Reserve Banks work with our telecom vendors to research and establish an alternative route for the backup circuit that minimizes the risk of a single point of failure disrupting both circuits. Wherever possible, alternate routes for the backup circuit are found for all elements of the network, including the backbone, switches, points-of-presence and local exchange carriers.

The Federal Reserve Banks conduct detailed reviews of the circuit paths twice a year to verify that the primary and backup circuits are still routed according to the original specifications. Routes are adjusted, if necessary, to maintain an appropriate degree of diversity between the two circuits.

Network Diversity is generally available for FedLine Direct®, FedLine Command® and FedLine Advantage® customers using a Dedicated WAN connection.\*

**Network Diversity reduces the risk of a disruption to your FedLine connection by configuring both circuits in a way that allows them to travel geographically distinct paths. In the event that the primary circuit is impacted, the backup circuit is less likely to be affected as it will route through a geographically different path from the primary circuit.**

**\*PLEASE NOTE:** Network Diversity is subject to availability and is not available to all customers or in all areas.

## The Federal Reserve Financial Services Advantage

The Federal Reserve led the financial services industry in providing electronic access to services more than 25 years ago and now has network reach to connect you with over 15,000 U.S. financial institutions. We continue to develop innovative and reliable options to meet your changing needs.

## Where Can I Get More Information?

The Federal Reserve is committed to providing you with exceptional customer service. Our team of technical support experts is available to assist you in using all of our products and services. For a complete listing of contacts for your institution, please see My FedDirectory® by visiting [FRBservices.org](http://FRBservices.org) and selecting "Contact Us".