



CELLULAR  
COMMUNICATIONS  
FOR DISTRIBUTION  
AUTOMATION

# DISTRIBUTION AUTOMATION

Flexible, high security cellular routers support control and automation projects across utility distribution systems

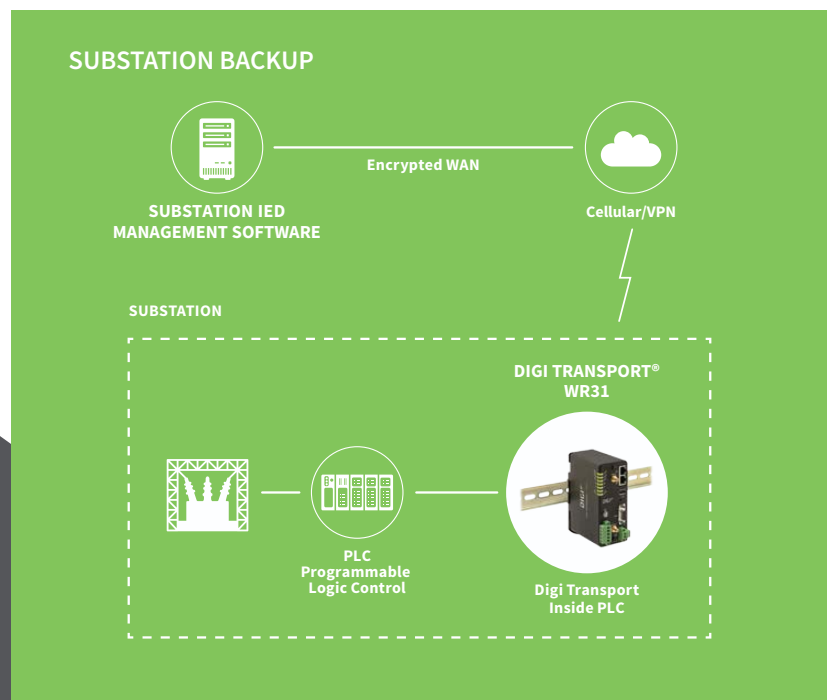
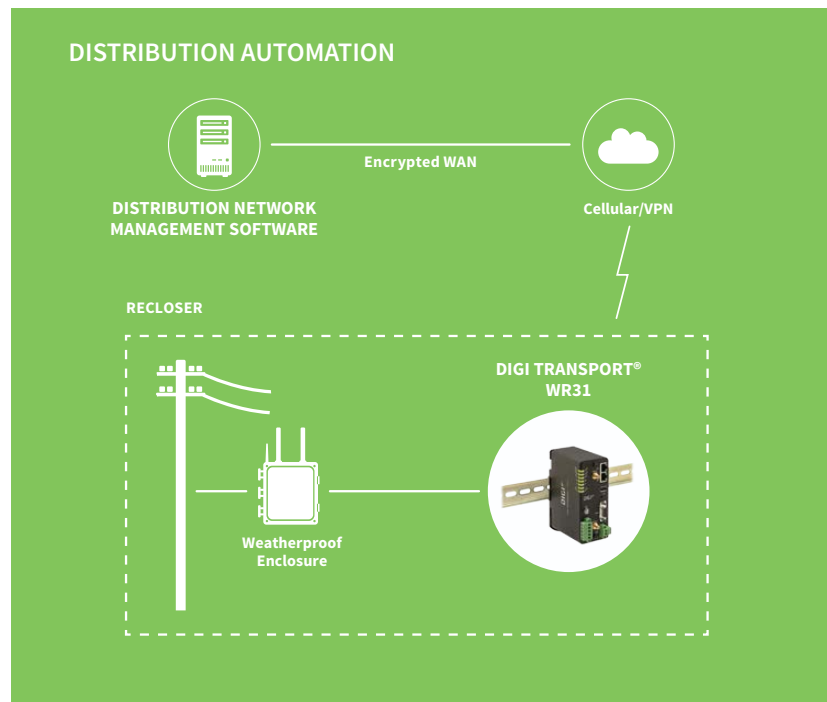
The utilities business is challenged from every angle to be increasingly productive and profitable. The very nature of managing remote equipment in many locations can be difficult and expensive, yet maximizing uptime while reducing costs is often a requirement.

Faced with rising customer service expectations and increasing performance scrutiny, distribution network operators are turning to the Digi TransPort® line of secure, reliable cellular routers to communicate with distribution automation assets such as:

- Recloser controls
- Capacitor bank controls
- Switches
- SCADA systems
- Substation IEDs
- Dataloggers

Digi TransPort routers are secure (dynamic routing, VPN, and firewall support), carrier-agile (supporting multiple carriers from a single device), and flexible (with Ethernet, RS232/485, GPS, USB, and analog/digital IO).

Learn more at [www.digi.com/transport](http://www.digi.com/transport).



## RELATED PRODUCTS



Utility  
Communication  
Hub



Digi  
TransPort®  
WR31



Digi  
TransPort®  
WR21



Accessories



Digi Remote  
Manager<sup>SM</sup>

PROBLEM	DIGI SOLUTION
Changing cellular networks requires expensive hardware replacement	Digi TransPort routers are carrier agile, able to switch networks without replacing product.
Switch, recloser and capacitor bank controllers require secure two-way communications	Digi TransPort routers offers full set of enterprise security features including 256-bit AES encryption and FIPS 197.
Weak signal strength due to remote locations and high signal interference in substations	Digi TransPort routers can be pole mounted or placed outside of substation control houses and optimized with external antennae.
Diverse field assets may require multiple interfaces	Digi TransPort routers offer Ethernet, RS232/485 serial, GPS, USB, and analog/digital IO.

## CUSTOMER STORY

### EDF Energy

Digi helped the largest electricity distribution network owner in the UK solve the problem of remotely monitoring its 400 electricity substations across a large geographic region. Digi TransPort enterprise wireless routers provide a reliable connection to EDF Energy's substations. Digi Remote Manager<sup>SM</sup> software enables easy configuration and management of the units.

EDF Energy also uses Digi TransPort routers to link its legacy monitoring system to a wireless IP network. Performance information is sent initially via EDF Energy Networks' VSAT satellite network. However, if there is a network problem or if the primary connection becomes unavailable, the routers intelligently detect the issue and switch to a GPRS mobile network connection.

"...we no longer have to dedicate time and money sending out our staff to either fix problems or wait for external engineers at substations."

- Roger Yeo, Sr. Project Engineer, EDF Energy

## WHY WIRELESS FOR A LANDLINE ALTERNATIVE?

### 1. Reduced Monthly Recurring Fees

- Only pay for data used, but "always-on" capable
- Very quick ROI

Cellular	Frame Relay	DSL/ISDN	Dial-Up
\$15-\$50	\$125	\$55/\$100	\$45

Estimated average costs based on low MB data plan

### 2. Infrastructure Is Already There

- Excellent coverage with instant access to worldwide network
- Carriers (not you) maintain towers and uptime
- Reliable and secure constant connection

### 3. Easy to Setup/Install

- No waiting for phone company to set up line
- Seamless migration with legacy devices
- Remote management/monitoring via Digi Remote Manager

### 4. It's Wireless

- True network diversity—wires are more vulnerable to nature and man
- Wires are more expensive to install



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