

HOW IT WORKS

Remote device connectivity provides a highly available, robust, managed data connection between remote devices and your control centre.

The service uses routers which can connect to two national 3G wireless networks with managed resilient paths between the data handovers and your operations centre. The connection has the ability to survive network failure of a mobile provider or network equipment. We can either provide you with a router for the service or alternatively we can take over the management of your existing connections and routers.

The fully managed service can also be configured as a diverse connection with a wired (fibre/copper) primary connection if available.

Service connectivity is monitored from our network services centre which has processes in place to ensure notification and management of any assurance issues.

Remote device connectivity options include IP, async or telemetry interfaces.

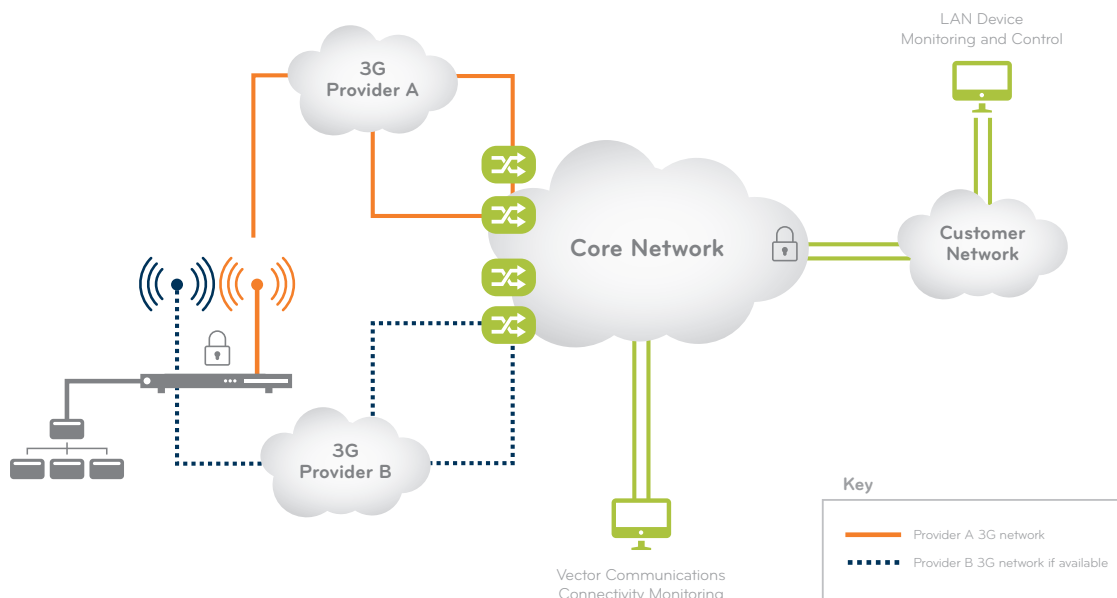
TECHNOLOGY OVERVIEW

Remote device connectivity provides secure resilient connectivity between remote assets and your control centre. Encryption and firewalls provide security while 24/7 monitoring ensures your connection is always available.

The connection is then encrypted and an IPSec tunnel provides transparent secure transport to the operations centre.

Our network services centre monitors the routers using a separated management layer to ensure reliable service is maintained.

You have the choice of us either taking over the management of your existing routers and connections or alternatively we can provide and deploy a router capable of selecting between two cellular 3G networks and managing diverse paths between the data handovers and your Network Operations Centre. Regardless of if the router is owned by us or another party, if the device fails it will be replaced with one of our routers. If this happens to a site that previously had a customer supplied router then there will be an increase in the ongoing monthly charge for that site to reflect the change.



✂ INSTALLATION OPTIONS

All Wireless Plus services must be configured by us regardless of whether they are new sites or existing sites we are taking over. All new Wireless Plus sites must have a Site Survey. This will determine if a standard installation can take place and/or if additional equipment will be required. We can either do this survey ourselves or alternatively you can provide the results of your own site survey to us. We have two options for the installation of Wireless Plus:

- On-site installation by our qualified technicians, or
- Bulk factory cabinet installation

If a bulk-factory installation is performed then we will need to determine on a case by case basis if a site installation visit is necessary.

🛡 SECURITY

A variety of systems have been implemented to ensure the security of this service. These include:

- Secure IP encryption is set up between the ethernet port on the router and the customer's servers.
- Firewalls prevent unauthorised access to Vector networks.
- Routers will only communicate once sessions have been initiated by communication within the firewalled zone so even if the routers are stolen no access to the internal network is possible.
- Each router has a strong username and password.

SERVICE SPECIFICATIONS

Service Attributes	
Data Plan	50Mbps
Telemetry Interface	Async Serial IO
Router Options	<p>We can currently manage the following routers:</p> <p>Diverse Connection: Digi WR41 (other models on request)</p> <p>Single Connection Only: Sarian HR 41110 (other models on request)</p>
Additional Options	<p>On request for an additional charge we can provide:</p> <ul style="list-style-type: none"> • VPN Tunnel Build to configure VPN tunnels across the connectivity to your specified end-point. Professional Services charges apply according to the agreed scope of work • Hardening for extreme environments • Battery backup • Dual RF aerial connections to improve the range and reliability of RF signals
Site Requirements	<p>We can only install Wireless Plus Premium in sites that a site survey confirms have:</p> <ul style="list-style-type: none"> • 3G signal strength of better than -78dB in good weather or -76db in heavy rain • an achievable data rate of >256Kbs

We welcome your feedback on our service. If you have any comments or questions then please get in touch with us. Call Vector Communications on 0800 826 436 or email contactus@vector.co.nz today.