Telstra Remote Telemetry

Telstra Remote Telemetry is a complete IP-based solution that provides the security of a virtual private network (VPN) with the extra assurance of genuine dual path monitoring.

You have a choice of wired VPN access with the ability to use the unrivalled 3G/4G coverage of the Telstra Mobile Network for redundancy. Single path monitoring is available for less critical sites – either wireline or the Telstra Mobile Network for areas where wired networks are not available.

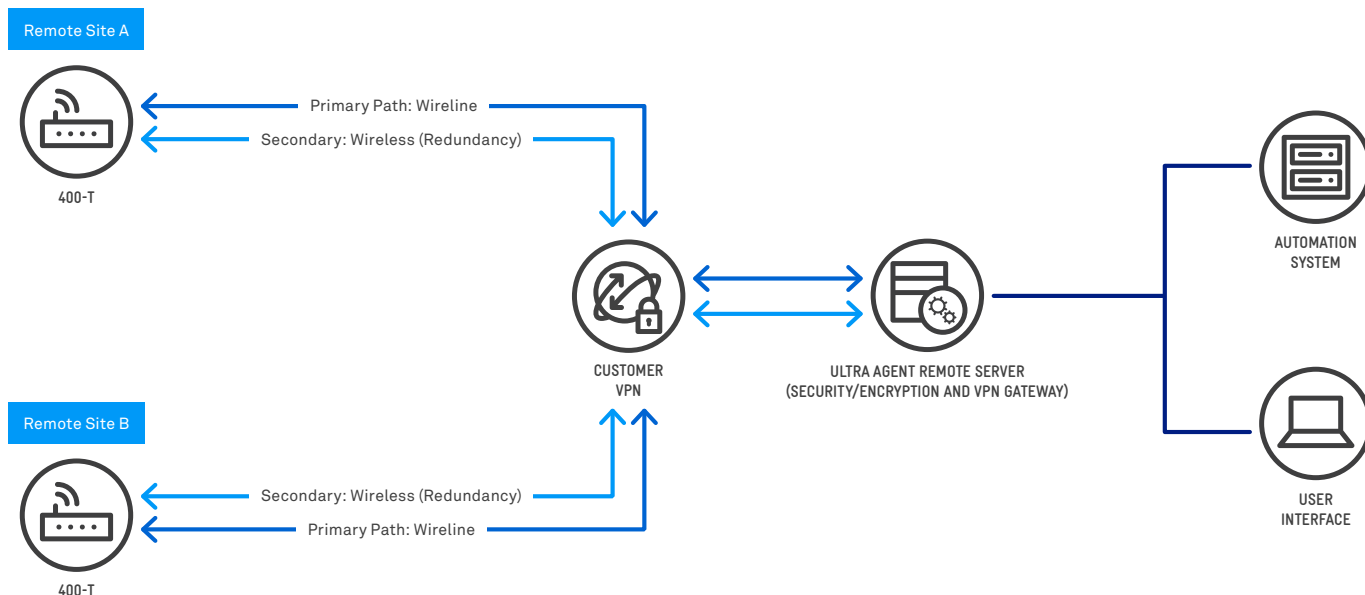Since it is IP-based, you can gather telemetry data from multiple remote locations and either collect it at a central point or enable these locations to communicate with each other. All data can be viewed at any time from the convenience of your web browser.

Security is first class. Restricted topology lets you deny and/or permit traffic flows based on your rules. All telemetry data travels across a virtual private network with ISO-27001 security certification. In addition, traffic is monitored 24/7 by Telstra to help ensure system integrity and performance.

Only requiring an on-site communicator unit and downloadable software, the solution is simple to install, activate and use. And since it works with most data sources and automation systems, including SCADA and SCATS platforms, there's no need for costly upgrades.

Telstra Remote Telemetry is also designed to adapt to new technologies as they arise and the communicator hardware is ruggedised making it suitable for industrial applications.

How does it work?

Remote Site A

400-T

Primary Path: Wireline

Secondary: Wireless (Redundancy)

CUSTOMER VPN

ULTRA AGENT REMOTE SERVER
(SECURITY/ENCRYPTION AND VPN GATEWAY)

AUTOMATION SYSTEM

USER INTERFACE

Remote Site B

400-T

Secondary: Wireless (Redundancy)

Primary Path: Wireline

TELSTRA

Features	Benefits
Onsite equipment 400-T communicator incorporating: • router • activated SIM card • built in Wi-Fi connectivity, 4G cellular modem, ADSL modem, multiple Ethernet ports, serial ports and a USB port.	• Small, sturdy and lightweight aluminium unit. • Uses less power than previous models. • Simple to install – zero-touch activation and easy to integrate with new technologies. • No need for costly upgrades – works with most data sources and automation systems including legacy systems. • Ability to choose the way the unit connects to the network.
Wired and wireless access • Multiple wired connection options – WAN, ADSL, BDSL, Frame Relay. • Wireless 4G connectivity with fall back to 3G in non 4G areas. • Optional Bluetooth support.	• Flexibility to work with your preferred access network. • Connect in more places with Australia's largest mobile network – including areas with no wired networks. • Works in areas where wired/wireless connectivity is unavailable. • Continuity of operations – automatic switchover to wireless if there is an outage to the wired network. • Option of single path monitoring for less critical sites.
Management interface • Browser based access to Telstra Remote Telemetry UltraAgent servers.	• Stay informed by viewing telemetry system data logs and historical reports. • Quickly access information from your web browser. • 99.9% target availability for your telemetry data for assurance. • Easy to install and use software application.
Telstra Managed Radius server • Authenticates each connection.	• No need to deploy and manage your own Radius server.
Restricted topology • Restricted topology uses access control lists allowing you to set policies to deny and/or permit traffic flows based on: • source and/or destination IP address • TCP, UDP or other protocol port identified by its number • TCP or UDP application protocol port.	• Logically separate traffic and restrict access to different entities or departments for additional security.
High security • IPSEC encryption. • Dedicated VPN access. • ISO-27001 security certification.	• Confidence that your data is protected. • Traffic is immune to web-based interference. • Assurance of best practice data security.
Competitive pricing • Single monthly charge for equipment, management access, 24/7 monitoring and support.	• An affordable solution that's easy to budget for.

Technical information

Remote End Site: A private IP address pool or pools is provisioned on the Telstra network to dynamically or statically allocate IP addresses to the remote UltraLink devices via Telstra Managed Radius.

A private IP address is allocated to remote UltraLinks by the Telstra Managed Radius for the establishment of the PPP session. Each UltraLink device is assigned a minimum of one dynamic IP address which identifies the access carriage. Where you have chosen the dual path option, then a second IP address is allocated to the UltraLink for identification of the second access path (these can be from the same pool).

Telstra Managed Radius authenticates each connection by unique username and password generated by the Ultra Agent and assigned in the zero touch process.

Each IP address pool in the Telstra network may consist of one or more IP address ranges. The minimum supported size of address range within an IP pool is 256 addresses (i.e. /24 – Class C address range).

The Telstra network terminates the PPP session (from remote end points ie, UltraLink) for dynamic access on the Dynamic Access Edge routers.

Head-End: Head-end sites are assigned an address from a private IP address range, which is used to assign IP addresses to the various components related to Telstra Remote Telemetry such as the Ultra Agent UI terminal.

A private and static IP subnet is used for the connections (e.g. frame-relay/BDSL) between your head-end and the Telstra Remote Telemetry VPN. The head-end router interfaces with the Telstra network.

About Telstra

We provide network services and solutions to more than 200 of the world's top 500 companies. They rely on us to do business across 240 countries and territories and to enable greater productivity, efficiency and growth.

Our solutions offer the best of all worlds – skilled people and a rich portfolio of services delivered on our world-class Telstra Next IP® network and Telstra Mobile Network. To ensure reliable performance, they're monitored and maintained from our dedicated centres using advanced management and operational systems. And they're backed by Telstra Enterprise-grade Customer Service® and one of Australia's largest and most qualified field and technical workforce.

Things you need to know

Telstra Remote Telemetry and the 400-T communicator are provided on a rental basis only. Unless specifically contracted beforehand, you are required to install the remote site equipment and activate the service yourself. You will need to have a Telstra ADSL, BDSL or Frame Relay service to access the Telstra Remote Telemetry network (normal access charges apply).

Contact your Telstra account representative for more details.

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