REMOTE ACCESS FOR YOUR CONTROL SYSTEM NETWORK
Why MET Connect?

Issues with current approaches to remote access:

3G Network Requirements

- Public IP
- Static IP or Dyn-DNS

Issues

- 3G Networks use Network Address Translation (NAT) so Public IP address isn’t usually possible
- Some providers offer a custom APN which locks you to one provider
- Dyn-DNS services to track a changing IP address are not scalable to many devices
Security Implications of current approach

Consequences of VPN server running locally on the 3G MODEM:

• One shared username and one shared password for everyone to remotely log-in
• Staff member leaves the company but still retains access to a “secure” system
• No audit trail of who logged in, what they did on the network and when
• Unfettered access to all - not possible to create user-based firewall permissions

Other Drawbacks:

• Not possible to aggregate multiple sites into one virtual network
• One VPN login per site at one time - No collaboration between remote technicians
• No continual remote monitoring possible with this configuration
The MET Connect™ Solution
How it works

- Remote MODEMs connect as VPN Clients to your private Virtual Network Instance (VHUB) on our Remote Access Server

- MODEM acts as a transparent Ethernet Bridge between Local network and VHUB

- Users connect as VPN Clients to your VHUB

Your VHUB is completely private to you. It acts as a Virtual Ethernet Switch allowing transparent Ethernet Communication between client devices and plant network devices.
You’re In Control

• Site admin creates separate accounts for each user

• Tight control over who can access the network

• Audit Trail – See who logged in and when

• Packet Log - option to log all packets for the really paranoid

• Apply custom firewall rules based on users or group membership.

e.g. jblogs can only access IP cameras, but jsmith can access whole network
Native Support Built-in to your OS of Choice

Every Major VPN Protocol Supported

L2TP/IPSec    OpenVPN    Microsoft SSTP    L2TPv3/IPSec    EtherIP/IPSec

No Software to install. Use the VPN Client built into your:
ipad, iPhone, android phone, android tablet, windows laptop and mac
Layer 2 – Ethernet Connection

Transparent Layer 2 Ethernet Network
This means:

• No Default Gateway needs to be programmed on remote devices

• Both Users and Remote Network devices appear on the same logical Local Subnet. No routing rules need programmed.

  e.g. remote user IP can be 192.168.1.100 and PLC can be 192.168.1.11

• Broadcast Packets Work - e.g. RS Logix 5000 can browse ‘Local’ subnet and ‘Go Online’ with PLC

• Use any Layer 3 Network Protocol, not just IPv4

RS Logix 5000 works remotely!
Virtual Network Topology

The MET Connect™ Virtual Ethernet topology facilitates transparent linking of multiple remote sites into one large logical Local Area Network

- Remote Inter-PLC Communication
- No gateway addresses required
- No additional routers required
- Option for Level 2 Bridging or Layer 3 routing between multiple VHUBs
- Highly scalable architecture - connect thousands of remote sites together
Manage your own Network

MET Connect™ Manager Software gives the local network administrator full control over their VHUB:

- Creating / deleting users and groups
- Account password management
- Firewall rules
- Audit trail - access and packet logs
- DHCP configuration
- No need to contact MET Connect to manage your own network
Monitor your Remote Network

MET Connect™ also offers a 24/7 Remote monitoring platform:

- Remote monitoring server connects into your VHUB and monitors your remote devices such as PLC’s, HMI’s, SCADA servers etc…

- Poll any network device via SNMP

- Monitor for SNMP Traps

- Monitor health and availability of remote devices

- Network map visualisation

- Aggregate data from multiple sites and store and graph your process parameters
Monitoring Your Process

Access your live monitoring platform via secure website.
Monitoring Infrastructure

Monitor your network infrastructure via secure website.
Our Back-End Network

The MET Connect™ Service is hosted in Australia in a Tier 1 Data Centre

- Extremely Reliable - High Uptime
- Runs on High Availability Redundant Cluster Servers
- Trusted for 24/7 Operations by:
  - **NRG Power Station**, Gladstone - Ash Plant Remote Access
  - **Callide Power Station** - Pozzolanic Ash Plant Remote Control
  - **ERA Ranger Uranium Mine** - Dredge
  - **SEE Civil** – 24/7 Remote monitoring of Trommel Rock Screening Plant
  - **Pro Crush** – Multiple mobile cone crushers – remote access and monitoring
  - **Cement Australia** – various batching plant control systems
  - **Various Superyachts** for Power Management System and Engine monitoring
Required Hardware

We send you all the necessary hardware, pre-configured:

4G MODEM
Redlion SN-6901 4G LTE MODEM will ship to you pre-configured to connect to your VHUB

Antennas
Choose an antenna that will suit your application:

From a small stubby omni-directional antenna for good signal areas up to very high-gain direction yagi antennas which provides excellent throughput in areas of poor Cell Reception.

SIM Card – We send you your Telstra SIM card provisioned and ready to go

You just need to supply the MODEM with 24VDC and Plug a patch lead between your network switch and the MODEM’s Ethernet port and you’re up and running.
How do I get MET Connect™?

Step 1: Create an account at: www.met-connect.com

Step 2: - Log-in to the portal:
  - choose your VHUB Name
  - choose a 4G Monthly Data Plan (for SIM Card)
  - Purchase User and MODEM Connection Licences
  - Purchase your MODEM

Step 3: Download MET Connect™ Manager from the portal, connect to your VHUB and create user accounts

Step 4: Receive your MODEM - it’s pre-configured, so just plug it in and switch it on.

You’re up and running!
Easy Accounting

Only one quarterly invoice - this covers all your on-going costs:

- MODEM connection licences
- User connection licences
- Telstra 3G / 4G Network data charges
- Remote Monitoring Platform costs

Customer portal at  www.met-connect.com
From the portal you can:

- Manage current services, view invoices and order new services
- Contact technical support
- Download MET Connect Manager Windows Software for managing your VHUB
- Access a number of useful Knowledge-base articles
Further Information

Please contact us to discuss your individual requirements:

support@met-connect.com

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