

## Emizon Global 21 TCD (Telemetry Communication Device) Information for IT Managers and Network Administrators

### Description

The TCD is a dual-path communication device that can be fitted to any modern alarm panel. The TCD is the gateway to the Emizon's Global 21 secure, signalling service providing a constant link between the alarm panel and the 24 hour response centre – ensuring that all alarms will always get through. For double protection the TCD uses two means of communication: it connects into the customer's existing broadband/IP network for the primary/wired communication path, it also connects to Optus's GPRS network for the wireless, secondary path.

### Connectivity

The Telemetry Communications Device (TCD) installed within the alarm control panel uses **outbound TCP/IP connections only**, in the IP destination port range 18000 through to 18049, via the landline IP (Ethernet) and the GPRS IP networks. The TCD does not accept inbound connections and does not require any inbound IP ports to be opened on a customer firewall/router. GPRS connectivity is established via a private network connection (APN), and no internet connectivity is possible via GPRS in the TCD. No connectivity exists between the GPRS IP and landline IP networks in the TCD and no IP bridging is permitted between the networks in the TCD. The TCD also contains an internal firewall to isolate the the TCD from any unauthorised connections or IP traffic.

### Specification

<b>Data traffic</b>	<ul style="list-style-type: none"> <li>&lt;100 Mbytes per month for the most secure Class 5 service. Class 4 is &lt; 50 Mbytes per month, Class 3 is &lt;20 Mbytes per month and Class 2 and 2+ are &lt;1 Mbyte per month.</li> </ul>
<b>Firewalls</b>	<ul style="list-style-type: none"> <li>The TCD does not interfere with network firewall operation or settings.</li> </ul>
<b>IP Address</b>	<ul style="list-style-type: none"> <li>As supplied the TCD is DHCP enabled. The TCD can also operate using a static IP address. Where a static IP address is required, this can be configured in the TCD using the GPRS path.</li> </ul>
<b>Ports</b>	<ul style="list-style-type: none"> <li>Ports 18000 through to 18049 open to outbound TCP/IP connections.</li> <li>The TCD does not require any inbound IP ports to be opened</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>The TCD does not interfere with the customer's security settings or operations.</li> </ul>
<b>Power consumption</b>	<ul style="list-style-type: none"> <li>Power Supply Requirements 12 vdc (ripple &lt; 200mV)</li> <li>Current typical 320ma and 350ma max</li> </ul>
<b>Network performance</b>	<ul style="list-style-type: none"> <li>The TCD does not interfere with broadband or network performance.</li> </ul>