

Application Note

Securestream IP

■ What is Securestream IP?

It is an Internet Protocol alarm receiver designed for the Challenger panel alarm network.

Alarm events are collected from Challenger panels converted into Contact ID and transmitted via a LAN or WAN to the Securestream receiver.

The system uses an interface installed on the Challenger panel and a receiving PC referred to as the Securestream receiver. The Securestream receiver has an output in Contact ID format designed to be delivered to the Control Room alarm monitoring system.

The Securestream system maintains constant panel condition by use of a heartbeat. A heartbeat is sent to the panel to confirm connectivity between Securestream and its enrolled panels. A heartbeat failure from a panel indicates to Securestream that the Challenger is offline.

■ Limitations of Current Systems

Current alarm monitoring requires generally leased line, Securitel or PSTN for dialler monitoring. These services incur additional costs either for line rental, service fees or phone call costs for each report.

Dialler receiver systems cannot determine the condition or status of the panel on a continual basis and can only receive information if the means of transmission is available i.e. if the phone line is cut or damaged the panel cannot report and the receiving system is unaware of this fact, this is similar for a panel failure.

■ Additional Benefits

Securestream polls Challenger panels to determine panel availability and network integrity. This provides a very high level of security.

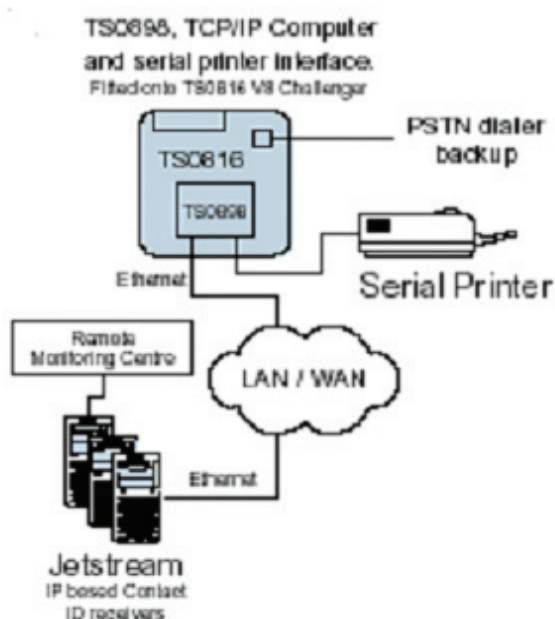
Challenger events are converted to Contact ID format this can be directed to the monitoring station of choice and a re-direction of all monitored panels to another control room involves only a re-direction of the Securestream Contact ID output.

Full function backup and disaster recovery can be provided utilising additional Securestream IP receivers on the same network.

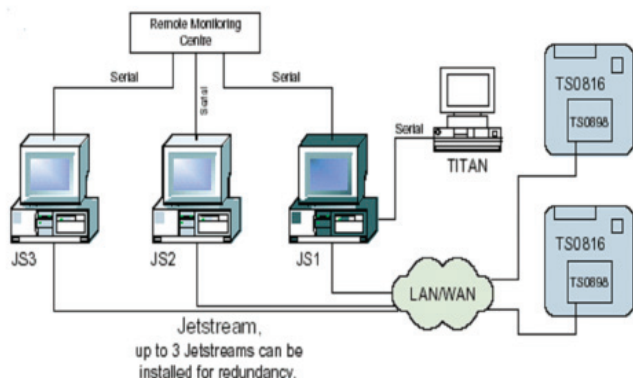
Challenger panels can be configured to report on dialler as a backup to Securestream.

■ Application of these Products

Basic Set-up



Recommended Set-up



Multiple Securestreams can be used as backups and it is recommended that at least one be provided for system security.

■ Key Benefits

The benefits to the industry are great. There are reduced operating costs as no leased lines are required or the use of PSTN lines for dialler reporting.

The network condition can be monitored as can the connectivity of the Challenger panel by use of a heartbeat.

Panels that have been correctly configured auto enrol on the network and are added to the Securestream panel database.

All data transmitted by the Challenger panel and Securestream uses the 128-bit 2-fish encryption method providing high security.

All alarms sent to Securestream are acknowledged and if not received the Challenger panel can be configured to initiate an alarm report via its on board dialler.

■ Cost Savings

Example 1: If there are 200 sites reporting on Securitel at \$10 per week network charge the saving over twelve months is \$104,000.

Example 2: If 200 sites make 6 phone calls per day for open, close alarms etc @ 25c the saving over twelve months is \$109,500

■ Existing Sites

Securestream is in use in both government and private applications.

Victorian Government – State Schools

Corporate – Harvey Norman, NRMA