

ISSN 1175/2149

NZSecurity Magazine

April/May 2013

SCHOOL SECURITY
IT SECURITY
TRANSPORT
FIRE INDUSTRY

www.NewZealandSecurity.co.nz • www.FireandSecurityNews.co.nz
Trusted sources of information for industry professionals

Uncompromising vision

The difference is in the details



Bosch HD takes image resolution to the next level

The level of detail in Bosch HD images captures extensive information throughout the whole scene. Our HD portfolio offers you a complete solution across the entire surveillance chain - from scene to screen. Every component is designed specifically for HD technology, so you can be sure that 'HD in' equals 'HD out'.

Ask about our Bosch HD product solutions today.



BOSCH

Invented for life

ZoneTechnology
Your Security Supply Partner

Email: sales@zonetechnology.co.nz
Web: www.zonetechnology.co.nz

Auckland
Unit 6, 25 Airborne Road
Albany, Auckland
Ph: 09 415 1500

Wellington
35 Abel Smith Street
Wellington
Ph: 04 803 3110

Christchurch
Ph: 03 365 1050

POWER UP 24 CAMERAS SIMULTANEOUSLY



It's not just about having PoE, it's about how many PoE ports you can use for your CCTV cameras.

The Vidipac VSW7242 Gigabit FULL Management Switch with 500W PoE is designed to provide continuous power up to 24 cameras or other security devices. Its key features include:

- 24-Port Giga PoE Switch
- SNMP v1/v2c/v3
- Authentication TACACS+
- IGMP v1/v2/v3
- VLAN
- IPv6 and IPv4 Dual Protocol
- SSH version 2.0
- Jumbo Frames 9Kbps

**Non-POE
also available
(VSW6242)**

Available at:

* not exceeding 500Watts in total power consumption

Contact Details

Craig Flint

Telephone: (64) 07 868 2703

Mobile: +64 (0) 274 597 621

Postal and delivery address:

27 West Crescent

Te Puru 3575

RD5

Thames

New Zealand

All enquiries to

craig@newzealandsecurity.co.nz

Editorial contributions welcome.

Deadline for all copy

June - July 2013 issue

is the 15th May 2013

June/July

Wholesalers and Manufacturers

Perimeter Protection

Smart card technology

August/September

Banking, Insurance, Finance,

Loss Prevention, Industry Training

Disclaimer: The information contained in this publication is given in good faith and has been derived from sources believed to be reliable and accurate. However, neither the publishers nor any person involved in the preparation of this publication accept any form of liability whatsoever for its contents including advertisements, editorials, opinions, advice or information or for any consequences from its use.

Copyright: No article or part thereof may be reproduced without prior consent of the publisher.

CONTENTS

Security

- 6 Are you ready for fibre?
- 8 Students get an App to watch over them
- 12 The Campus Care Team
- 14 Warning for schools putting out tenders for new builds
- 16 Zone Technology introduces ARH
- 18 Data theft hitting unwary firms
- 20 USB Warned
- 22 Raytec - An IFSEC Awards Finalist
- 26 Viewtech Surveillance Technology
- 28 See it all with Panomera and CRK
- 32 All eyes on airport hangars
- 34 CCTV system saves operators time
- 35 Legge Privacy Plus
- 36 IP video surveillance
- 38 NZSA Association News
- 40 NZIPI Association News
- 41 The Investigation Of Employment Issues
- 42 Netgear & Zone Technology
- 44 HID Global Safeguards New Terminal
- 46 Attacks of taxi drivers still happening
- 62 Product Showcase

Fire

- 48 Brooks multi-sensor Alarm for enhanced fire detection
- 50 Pressure on to get pressure right
- 52 FLIR systems launches the K-Series
- 54 ViTech New Zealand joins the Loktronic stable
- 56 Coupling catastrophe avoided
- 58 Brazen theft of building fire outlet couplings
- 60 Phillips & Smith Ltd

For a FREE online subscription go to
www.newzealandsecurity.co.nz

ENJOY a **10** year
guarantee
on Loktronic Indoor
Electromagnetic Locks!

Loktronic

0800 367 565
www.loktronic.co.nz

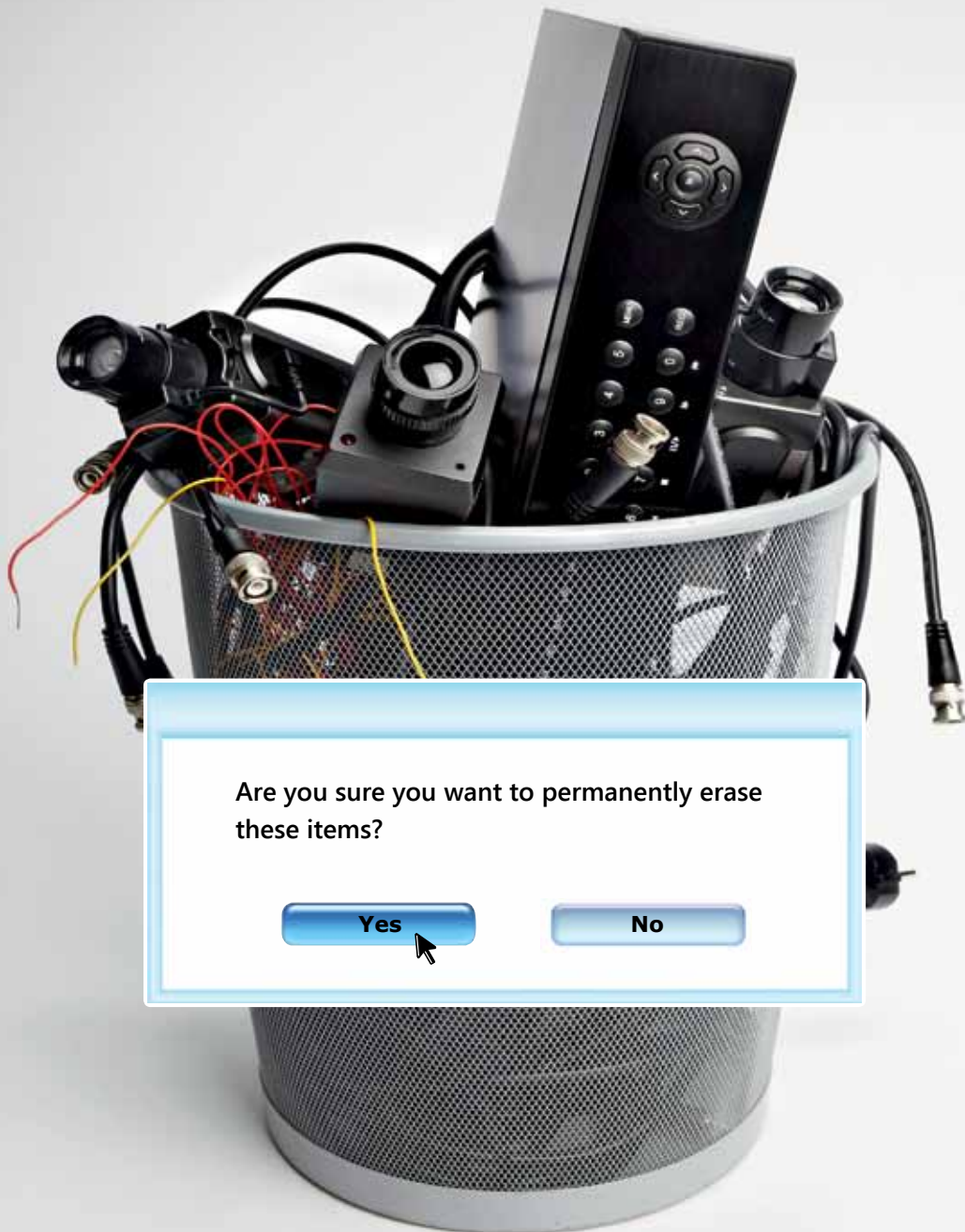
Associations

ASIS
INTERNATIONAL
Advancing Security Worldwide™
www.asis.org.nz

MASTER LOCKSMITHS
www.masterlocksmiths.com.au


NEW ZEALAND INSTITUTE OF
PROFESSIONAL INVESTIGATORS INC.
www.nzipi.org.nz

NZSA
SECURITY
www.security.org.nz



People expect more from technology today — or in other words, less. Less cables, less equipment, less hassle. Why should video surveillance be any different?

AXIS Camera Companion lets you offer cutting-edge network video also to customers with smaller areas to cover — giving them the advanced options they're looking for today. AXIS Camera Companion records all video directly on each camera's SD-card — so no need for DVRs, NVRs, extra cables, or even a computer during operation.

With superb HDTV image quality and remote and mobile live viewing, it's a no-brainer for your customers. And with its easy installation, low maintenance and competitive price, it's a dream come true for you.

AXIS Camera Companion — the easiest way to network video surveillance.

Get the Axis picture. Stay one step ahead.
Visit www.axiscameracompanion.com or email contact-sap@axis.com



HDTV image quality • Direct recording on SD cards (no DVR needed) • Viewing apps for iPhone, iPad and Android • Cameras powered over the network • No PC needed for operation • Free viewing client • Scales easily from 1 to 16 cameras • Encoder support for analog cameras • No single point of failure



Distributed by:



Are you ready for fibre?

The ultrafast broadband rollout and the rapid uptake of digital voice services pose a real challenge for monitoring companies and a dilemma for their customers who want to protect their investment in their existing alarm system.

By the end of 2019 the Government expects 1.35 million premises will be able to connect to the UFB fibre network.

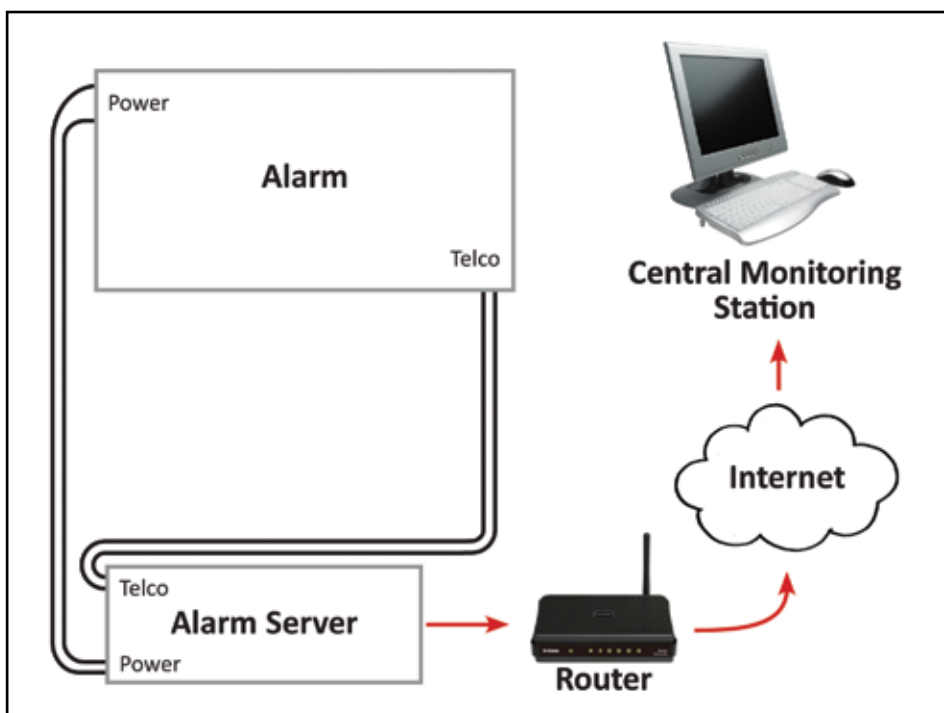
In a recent survey undertaken by Enable Networks in Christchurch, 80% of respondents indicated they would consider connecting to the fibre broadband and 96% of those who had taken it up said they would recommend it to family and friends.

With Telecom set to unveil their ultrafast broadband packages this month, a significant shift in the momentum for the uptake of fibre is expected.

In short, the tidal wave of fibre is coming and most alarm installers and monitoring companies are struggling to come to terms with the complexities of this new environment. When users



Mel Weston is the owner and CEO of micron



convert to fibre or VoIP (Voice over Internet Protocol) existing alarms cannot reliably communicate over these new networks.

Micron Security Products Ltd, a long established New Zealand manufacturer of alarm products, foresaw the problem five years ago and has developed three world leading solutions to connect existing and new alarms to broadband networks, all of which have gained international attention.

Mel Weston, CEO and owner of the company says “**micron** has been at the forefront of the trend to fibre and after an exhaustive product development

and testing program is one of the first companies internationally to manufacture products that solve the problems customers face in converting their existing alarms to broadband or upgrading to new broadband alarm equipment.”

“Our solutions include a low cost **PSTN to IP alarm server** for converting any existing alarm to broadband, the **Meridian native IP alarm panel** and the **PowerBrick** range of Telco approved broadband power servers, with IP alarm conversion and full TCP/IP alarm options integrated in a single broadband gateway power solution.”

What's driving this change?

Neville Clifton, CEO of monitoring company Alarm NZ, has worked closely with micron, Chorus and Telecom during the development of these new broadband services. He says, "with Telecom's announcement that the PSTN copper network will be shut down by 2020 and Vodafone's recent indication that their GPRS network's future could be uncertain beyond 2015, the momentum towards fibre and 4G will continue to build very rapidly."

"With declining revenues from the PSTN network, as users move to internet based communications, telecommunication companies are rapidly evolving their business model from a variable tariff to a fixed tariff system where customers purchase all-inclusive internet access for a lump sum per month and don't pay for calls," he says.

So how do you protect existing alarms?

Micron has designed a small sleek device known as an **alarm server** which is a low cost solution to breathe life back into existing monitored alarm systems when users move to broadband. The **alarm server** connects to the alarm like an oversized USB stick to enable the alarm to communicate via the customer's router.

Weston says, "It's reliable, intuitive and simple to install. For a one off cost of around \$100 the alarm server is the most viable, cost effective and lowest impact solution for customers upgrading their existing PSTN alarms to broadband."

"And from the installer's perspective there's no complicated manual, it's just 'plug n play'. You simply take the phone line that comes from the alarm, connect it to the alarm server to convert the signal to ethernet and then plug it into your customers' router."

For new houses and commercial premises, where fibre has already been laid, micron's **Meridian broadband alarm** has many innovative features which cater for 95% of market needs, including an intuitive smartphone App for the end user.

The **PowerBrick power servers** are the only power and IP alarm devices approved by Chorus for telecommunication companies and St John for their existing installed base of medical alarms.

PowerBrick has a battery backup that will provide power to the Telco ONT (Optical Network Terminal) and the ISP's router during a power cut, critical for commercial premises and for users with medical alarms.

micron
security products

Fibre and VoIP Ready



IP002L

Universal Low Cost IP Alarm Converter

- Upgrade any PSTN alarm panel to IP
- Non-proprietary CSV protocol
- Communicates to any central station receiver
- Pre-programmed
- Super easy 'plug n play' installation
- Automatic router port forwarding
- Small size fits 40mm capping
- Free monitoring period
- Software included

\$99⁰⁰
+ gst

www.micronsecurity.com

What is the time frame for the changeover?

Neville Clifton says, "The pace of change will build significantly from now on. Two years ago 100% of all alarms were connected to the PSTN network, now that fibre optic is being laid in all new 'greenfield' subdivisions, as well as in existing 'brownfield' suburbs throughout the country, IP alarm sales will overtake PSTN sales within 2 to 3 years."

The fibre connection will replace all other cabling into the house. In some places the copper has already been completely removed. In 'greenfield' subdivisions only an IP alarm system should be installed from the outset. What is troubling is that many alarm companies, some of whom have already been caught out by developers, have continued to install PSTN network alarms even though they cannot be connected to the fibre already installed in the subdivision.

How are these products working in the field from an installers' perspective?

Rob Lyons, CEO of Eagle Alarms, is one of the early adopters of micron's IP alarm products and his company has installed them in several new subdivisions around Auckland, including Hobsonville and Addison in Takanini. He says, "they have worked brilliantly as they are so simple to install and very easy to use. More and more developers and customers are becoming aware of the changes that are taking place and asking about IP alarm products and we are very confident to tell them about micron's new product line."

"Lots more people are abandoning traditional telephone methods and just using their smart phones and VoIP systems, like Skype, particularly in rental properties. And in the commercial market, more businesses and industrial parks are planning for fibre."

Lyons says, "It's vital that developers and alarm installers become educated on the changes that are taking place. Some are blatantly unaware and are still installing standard alarm systems into fibre areas and subsequently end users are demanding to have their alarms modified or upgraded to work on the fibre network."

He says, "the beauty of having a local New Zealand manufacturer producing these innovative new products is that they are accredited to New Zealand telecommunication standards. It's also a huge advantage being able to work constructively with micron's development team about the practical aspects of working with the products in the field."

Are there alternative solutions?

To try and overcome the problem in the interim, some people have upgraded their existing systems with wireless GSM converters however Neville Clifton says this is not the ideal solution because this converter is more expensive than micron's alarm server and the customer will be charged around \$10-15 extra per month to have their alarm monitored with these devices.

"People have also mistakenly gone down the 2G wireless route using GPRS (General Purpose Radio System) for legacy alarm solutions. Those customers who have invested in GPRS will be faced with a further upgrade to 3/4G sooner than they think."

"The alarm server approach is by far the easiest and cheapest long-term solution," he says. "It's far better for installers to use the customers' own internet connection to get access to their monitoring, without paying the on-going charges of a GSM or GPRS solution."

"Currently the monitoring station has to absorb the cost or charge the customer, which is not the ideal for anyone. It's better to advise the client you need an alarm converter to make your system work, pay around \$100 to have it installed and then you don't have to worry about increased costs after that," he says.

Clifton also says, "while other alarm manufacturers have adopted proprietary wireless GSM modules for their alarm systems as a way to get around the loss of the PSTN network these solutions require high initial conversion costs and additional monthly charges."

How big is this issue?

Recent market research indicates that well over 250,000 monitored alarms in New Zealand will require some sort of



PowerBrick Hub powering a Chorus ONT

media converter or new broadband IP alarm installed to operate in the new fibre broadband environment.

The typical cost for a proprietary manufacturers' media converter can range from \$200-700 which is a much more expensive option. Clifton says alarm monitoring companies prefer to use existing cabling, "so the micron alarm server makes good business sense as it is the cheapest less disruptive way to resolve the client's issue so they carry on as normal."

"Many clients have big investments in their current alarm technology and will want to keep them going as long as possible, so the PSTN to IP media converter is very cost effective solution until a full IP alarm system upgrade is right for them," he says.

Looking to the future

Clifton predicts most alarm companies will probably stick with open cable or wireless rather than proprietary wireless because the access is free on existing internet connections. If the customer has PowerBrick battery backup for power outages then they will have guaranteed network access.

The micron media converters allow people to have both choices. Clifton believes that in the immediate future 90% of the market will install media converters and 10% will install new IP alarms but within just a few years this will reverse with up to 90% choosing IP alarms.

About Micron

Micron is a New Zealand manufacturer of world class security products. The company has manufactured alarms in New Zealand for 37 years and exports to more than 35 countries worldwide. Its products include alarm panels, internet connect alarm products, alarm media converters, PowerBrick broadband power solutions, access control systems, detectors and medical emergency response products.

Micron's IP alarm technologies are being sought in North America, Europe, Australia, Canada and South East Asia as a solution for connecting alarms to broadband networks.

Mel Weston, the company's owner, is leading micron in new directions, focusing increasingly on security developments around the introduction of broadband fibre and 4G networks worldwide and the opportunity that provides for a rich set of user experiences.

For more information about micron go to:

www.micronsecurity.com

or phone

Auckland 09 378 6098

Wellington 04 589 4656

Christchurch 03 365 9702

Synology RackStation RS10613xs+

Robust & Intelligent NVR Solution



- Up to 49 channels of live view
- Support 70 channels of simultaneous high-definition IP camera recording
- Storage capacity up to 400 TB
- Batch installation and group management for large-scale deployment
- Support Tally Counter, Virtual Fence, No Idle Zone, and more analytic tools
- Support iOS, Android™ mobile devices & push notification
- Web API allows for 3rd-party application integration

Distributed by



More info



Accolade for Synology



Students Get An App To Watch Over Them

Steve Hart reports that students at an Auckland university are about to start trials of a new system that will help keep them safe – and reduce demands on a security firm's staff

Although most any school or university campus can be 'sewn up' with perimeter security technology to keep watch on people and protect buildings, helping to keep people safe from harm can quickly border on a big brother approach.

However, finding the middle ground between watching students and raising the eyebrows of civil libertarians, may just about become a reality in New Zealand –



Callum Blair is the owner of Campus Security

and it's all thanks to smartphones, a simple piece of free software (app) and the GPS service.

Shadow Me, out of the US, has been adapted for use in New Zealand by Auckland-based Campus Security, a firm owned by former police officer Callum Blair.

The company, which started trading in 1998 and employs 66 people, provides security services to AUT, Massey University in Albany and Palmerston North, Unitec and numerous primary and secondary schools.

The Shadow Me app (not to be confused with a Twitter app of the same name) integrates with the GPS functionality in most smartphones and is about to be trailed here for the first time by 270 students at Albany's Massey University.

The app will not only help make students safer as they walk between

buildings at night, but will take the pressure off security guards who are sometimes called to escort a less than sober (normally) female student from the campus bar to their accommodation.

Blair says: "Security firms in the US were scratching their heads because campus security firms get a lot of calls asking them to send staff to accompany students at night on large campuses.

We experience it here too. But you can't send one security guard in case a female student makes an accusation, so you have to send two members of staff.

Then the cost of running the campus security service starts to go up. And the guards are not where they are supposed to be.

So people in the campus security industry started to ask 'what do students use' – because we don't want a big brother approach to keep students safe. So the





Shadow Me app was created.”

The app works in two stages. After a user has downloaded it to their smartphone from services such as the iTunes store, they hop on a campus security web page to create a free account. Then they enter their personal details along with instructions on what security staff should do if an alert is triggered by the Shadow Me app.

For example, instruction might be that security staff call the student's parents, ring their flatmate, or go out to track the student down using the GPS system.

Security staff are alerted when the app's user doesn't respond to a prompt on their phone to cancel an alert. Rather than the student dialling for help, they have to cancel the request for assistance, and depending on how they set it up, the 'cancel' button may have to be clicked every 10 minutes or every 30 minutes – a duration that's set by the user.

When an alert is triggered by a non-response the first thing security staff do is call the student to see if they forgot to cancel the app at their destination. If there is no answer then staff follow the protocol specified by the student.

“We only act in the way they want us to act,” says Blair. “For example, we don't ring their mum and dad if they have already told us not to ring them.



AUT Campus

Spot'em with a Pulsar night vision system.



Pulsar Recon 550R
Digital night vision
video/still recorder

Pulsar Quantum HD38
Professional thermal imager



Pulsar Edge GS 2.7x50
Night vision binocular



www.pulsar-nv.co.nz ph: 03 9700 570

They might want us to call their flatmate or want campus security to go and find them. If they want campus security to come out and track them down, then there will be a cost involved.

Because their location comes up on a map, we can pinpoint where they are. It is pretty cool stuff. The app is non-invasive, because the users set the ground rules, we are not tracking people, we only respond to an alarm.”

Blair says the whole rational behind the app is that too often it isn't until the next day that someone is found to be missing from their flat or class.

“Right now, people are 24 hours behind the eight ball,” he says. “Where as now, if someone is walking from A to B and there is a 10 minute timing session on the app, and something happens to them, then we know almost straight away that something is wrong and we can start to respond – rather than the next day.

It is not the silver bullet, but it actually raises the flag. We are in the trial phase here, there are bound to be some hiccups and we will adjust the technology as we go along until it settles down.

We are using known technology, but putting it together in a way that provides a new service.”

Blair says so long as the trial at Massey University goes well, then his firm will roll out the system across the country.

“The app can be downloaded free, it will be free to use for students and we plan to offer it to our clients as an add-on to our security offering,” says Blair. “But there may be an option for the app to be sponsored by someone like McDonalds or the Coffee Club.”

Blair says there are other programmes offering similar services but says none focus on students and campuses.

“Our focus is on looking after students,” he says. “And it will work anywhere in New Zealand that has mobile coverage.”

Blair says once the system is fully up and running he may extend it to nurses leaving hospitals and real estate agents.

The Campus Care Team

How Threat Assessment and Threat Management works to protect schools and societies

By Carlton Ruffell CPP. PSP.

What is a Threat Assessment Team for a school?

A school Threat Assessment Team is a group of people from the school who come together to assess the problems that staff and students may have, when these problems could cause harm or impact on the wider school community.

These teams have evolved as a result of research done following the Virginia Tech shooting in 2007 where 32 students and one lone gunman lost their lives in a mass shooting in the United States. The risk of the 'mass shooting' type of attack in New Zealand is lessened due to the small population of the country, the relative scarcity of assault weapons and the level of help that your average New Zealander can access from support services. This reduces the risk but does not remove it. Examples abound of children and adults

who were injured or killed because critical information was not gathered or shared. The Threat Assessment Team acts as the clearing point for information and seeks to ensure that identified problems are addressed appropriately. In most schools, even in the U.S.A., the Threat Assessment Team ends up dealing with much more common, although just as personally devastating problems, such as bullying, suicide, stalking, domestic violence, depression and mental illness.

Naming

Threat Assessment and Threat Management can be a scary topic and a natural reaction, without first looking at the evidence can be, "We don't need that here". Denial creates barriers to progress and problem resolution. The term, 'Threat Assessment Team' can conjure up negative images of over-zealous quasi-police seeking to punish those that are different. Calling your team 'Campus Care' or 'Kura Tauwhiro' or a similar name may help make the team more accepted. Following the creation of the team, they need to educate the school as to who they are and what they do. A brief presentation to the school can show that the goals of the team are holistic, aimed at achieving the best outcomes for all and probably what your school aspires to when dealing with these types of issues. From now on, we will call the Threat Assessment Team, 'Campus Care'.

Communication

Campus Care is about keeping lines of communication open in the school. When an issue is brought to the team's attention, they can seek out and connect all the relevant information that an organisation like a school gathers. When this information equals a concern; the team can then use it as a basis of a sensible plan to protect the student/teacher of concern and those around them.

Process

The Campus Care team - or as many members as you can find - should be brought together when disturbing information is received, to conduct triage. For example, a student reports that their friend is threatening suicide

on her Facebook page. The goal of the triage is the same as in medicine. Based on the information you have at the time, you must determine the seriousness of the problem and if needed, take action to protect anyone involved. As with medicine, there is the additional aim of 'doing no harm'. This means corroboration should be sought on any information received. Remember that, unfortunately, people will use the existence of the team to attack others as well as to try and help them. Getting a second perspective on a person's account is vital.

Following triage the full team can meet when there is time, assign the case and plan a full response. If the concern appears to be serious then the main part of threat assessment is information gathering. People get sad or ill or angry for a reason and Campus Care seeks to understand as much of their situation as possible.

The information sought includes, amongst other things, the previous use of violence to solve problems, mental health issues, drug and alcohol use, family stressors, financial stressors, access to weapons and pre-incident indicators, (like writing down a plan or telling other students what they intend to do).

The management of the student/teacher of concern should consider the use of all the resources available to the team and should constantly seek feedback on if the plan is working. Again, an ongoing goal is to do no harm. Generally speaking, if the decision is made to intervene to get the student/teacher of concern back on track, then ideas that help them improve overall are better than ideas that punish them in the short term.

Ongoing case monitoring is important as people get worse and people get better. If a young man has been pursuing a young lady in an inappropriate way (obsessive relational intrusion) but, has been counselled on the error of his ways and accepted this, then the case may be closed. However, if that young man then does the same thing six months later, this may indicate a deeper problem that needs more attention.

When not actively dealing with cases the team seeks to create and reinforce lines of communication within the



Carlton Ruffell CPP. PSP.

As Security Information Officer for New Zealand's Parliamentary Service, Carlton consulted on over 100 cases that ranged from threats to kill to romantically obsessed stalkers. This experience, and extensive overseas training, allowed him to apply a community approach to assessing any threat posed and design threat management programs that sought to reduce the long-term risk and disruption caused by some individuals and groups. Carlton holds a Bachelor of Defence Studies and a Diploma in Policing. He is also certified by ASIS International in Security Management and Physical Security and he is the current ASIS NZ Chairman. His consultancy, Ruffell & Associates Ltd provides understanding and solutions for organisations and individuals faced with threats of violence, managing exceptional risk or dealing with invasions of privacy.

The path to interoperability.

HID iCLASS SE



Open, adaptable and powerfully secure, iCLASS SE® is the platform that simplifies everything.



iCLASS SE® is HID Global's next generation access control platform that enables authentication of a wide variety of commercial credential technologies. A highly flexible reader family along with an array of multi-technology credentials ensure interoperability in a variety of technology environments. iCLASS SE is also enabled for (NFC) mobile phones and other smart devices. Now, you can use multiple form factors to create your ideal access control solution today. **For more information on HID's iCLASS SE access control solution, visit hidglobal.com/path-nzsec or contact us at +613 9809 2892 or email at asiasales@hidglobal.com.**

© 2012 HID Global Corporation/ASSA ABLOY AB. All rights reserved. HID, HID Global, the HID Blue Brick logo, the Chain Design, iCLASS SE, Secure Identity Object, SIO and Seos are trademarks or registered trademarks of HID Global or its licensor(s)/supplier(s) in the US and other countries and may not be used without permission. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.

school and the wider community, as well as conducting their own training. This might be on subjects like, learning how to be more effective interviewers or, conducting 'table-top' exercises that theorize what they would do given different situations.

How does it work at school?

Teachers are stretched to the limit with administration duties and many extra-curricular activities expected of them

with no additional pay offered. Also, schools correctly say, we are not the right people for this role and don't have the budget to police society. Organisations that focus on these problems should deal with them. For example, the Police should deal with crime, CYPFS should deal with abused children and Mental Health should deal with people who have those problems. Campus Care doesn't attempt to replace any of these organisations or to do their jobs. Instead

it recognizes that tragedies occur in New Zealand when, due to a lack of coordination, information is not shared with the right organisation or, no one sees it as their problem. Campus Care acts as a clearing point for information. Making sure wrong actions aren't taken, that people with the skills and authority to fix the problem are aware of all the evidence available and, if no one else is taking an interest, something is being done to protect people.

Warning For Schools Putting Out Tenders For New Builds

By Steve Hart

Schools are leaving it too late to bring in security consultants when commissioning firms to tender for new builds. That's the view of Adrian Laing, Business Manager at Nelson Alarms.

He says that all too often, schools put work out to tender and building firms take the cheapest quote for the additional alarm and fire gear – without paying any attention to what is already in place.

"A building job gets announced by a school and tenders invited, but the security side of the building is taken in isolation instead of being a part of the whole," says Laing.

"There may be a small two or three room project, and it may involve some fire protection or security work – which may be a small to medium sized job – but it is not viewed holistically.

We think that if fire and security work is viewed as stand-alone, then a school will end up with several different security systems that may be incompatible.

A school might even end up with several different service companies working in the one school, which can make it difficult for the school to manage."

Laing, whose firm is based in Tahunanui, has first-hand experience of good systems going bad – when a mix-and-match installation is connected together.

"In our case we have lots of schools we have worked with for quite a few years," he says. "We have an example of us losing a school several years ago, a new company comes along – adds to our system – and wrecks the flow of everything, problems arise and the school is frustrated."

Laing says one driver of a builder using different security firms is that construction companies compete on price, and so will often take the lowest quote from security sub contractors.

"In the long run, this may cost the school twice as much, with all the problems it can create and call-outs that follow," he says.

"The builder doesn't want to lose the job, and so takes the cheapest quotes to achieve a low price for the school."

One option, muses Laing, is that building firms can be instructed to only use the school's preferred security provider.

"But for the sake of transparency, perhaps schools should ask firms tendering for their building projects to only use security firms that have sufficiently trained technicians," he says.



Adrian Laing is the Business Manager for Nelson Alarms



U.S. Ambassador Huebner's visit to Nelson College - September 2011

Once the dust has settled on a new construction Laing says it is essential the school ensure that all fire and security systems are fully working before the builder walks away with the completion cheque in their hand.

"We would recommend that a security consultant or similar check the systems and sign off that part of the job, and authorise payment from there," he says. "As opposed to whoever did the job saying 'yeah, that's finished' with no real checks.

"Because builders do not know if the system is compliant, that it works... schools shouldn't just take the contractor's word for it.

I have seen a few examples where the contractor has been paid and the school has been left with a half-baked system that is not compatible and not fit for the purpose."

What is in your security platform's DNA?



**Security
Center**

**You decide. Strengthen your security;
one building block at a time.**

Start with Security Center unified video, access control and ANPR. Consolidate business systems like intrusion detection, asset monitoring, building management and more. And watch unification evolve.

See what you need at genetec.com/SecurityCenter

Video Surveillance | Access Control | Automatic Number-Plate Recognition

For more information

Panasonic ideas for life

www.panasonic.co.nz

Innovative Solutions

Genetec

Zone Technology introduces ARH (Adaptive Recognition Hungary)

Introduction

Since the beginning of time, mankind has been aware of the importance of safety both for the individual and the community to ensure the survival of the human race.

Prehistoric man protected the entrance to his cave by building fires; ancient civilisations built walls and medieval man built castles and fortresses. Although the world around us has changed considerably, people still need to be safe in the 21st century. Nowadays however, safety is a far more complex issue than it used to be. We have to deal with different threats and we have developed the means to do so. We may not fear being the prey of a beast in the jungle, but we may worry that our car is stolen whilst we take a walk in the park.

Safety of the individual and his possessions has become a major industry. Although we want to preserve our freedom, we accept the need to be monitored every now and then as a necessary precaution. We routinely carry proof of identity and consider it quite normal to produce this when requested, whether for authorisation or even scanning. We do not object to having our number plates automatically read and stored when we drive into car parks or buildings.

As in former times, safety is still of crucial importance to both the individual and society as a whole.

ARH Inc. ("ARH") develops, manufactures and sells intelligent devices that process images within the context of security and traffic control. Ultimately our clients are system integration companies who construct outstanding innovative technological systems for their partners by incorporating our state-of-the-art technology.

To date, approximately 2,000 satisfied partners in more than 200 countries worldwide are using the image processing know-how of ARH Inc.

ARH's recognition technologies can be found in every continent, and in countries ranging from Australia to Saudi Arabia. The secret of our success? It is our commitment to developing outstanding technological solutions, combined with reliability and efficiency.

The road to success: artificial intelligence and image recognition by computer

We receive information from the outside world through all our senses. Of all the information received via these five senses (sight, hearing, taste, smell and touch) 75-80% is visual. Visual perception, therefore, is of vital importance in the relationship between man and his environment.

In 1990 some colleagues and I, specialising in both mathematics and engineering were addressing the complex issue of how to model the human brain

with the help of modern computer technology, thus enabling the computer to "see" things the way we humans do. In other words, could a computer interpret the contents of a digital image it has never "seen" before? The success of this research soon compelled us to put this newly acquired knowledge into practice, through solving specific tasks of recognition.

This is how the world's first number plate recognition computer application was developed in Hungary in 1991.

We have been in the market since 1991, committed to innovation, quality and reliability. All elements our business model converge to build strong partnerships with the purpose of gaining customer satisfaction. We value most the idea of supporting our partners in order for them to develop a successful business

As a result of more than 15 years of continued research and development, ARH has become one of the key global players of image processing technology, within the security and traffic control sectors.





ARH's business policy is based on:

- Customer Understanding
- Leading Edge Technology
- Outstanding Quality Support and Services

Our goal is to understand the needs of our customers and to meet these demands through combining our know-how, expertise and state-of-the art technology with quality support and services.

LetUgo & ParkIT Products:

LetUgo is a complete end-user software application for automated vehicle access control. LetUgo is using the natively integrated ParkIT LPR camera and the Carmen Parking Digital license plate recognition software. The identification of the vehicles naturally based on their license plate number.

When a vehicle arrives to a gate controlled by LetUgo, the ParkIT camera takes pictures about this vehicle and the Carmen Parking Digital software reads its license plate. Both the pictures and the read plate number are then given to LetUgo. Based on the preset access criteria in LetUgo's database, the software then does or does not open the gate or barrier for the vehicle to pass through.

LetUgo includes database handling for flexible vehicle registration and versatile access management. With the software you can easily manage a wide variety of



access criteria, such as when and where a vehicle can enter or leave from. All access data - images of passing vehicles, plate number, time stamps, etc. - are stored for later lookup, searching and reporting.

LetUgo indeed includes all that is needed for vehicle access control

- Automated vehicle entry of cars with registered number plates. Gate/door controlled automatically, directly by the camera.
- Storage of all incoming/outgoing car images, plate numbers, time stamps. Full audit trail of all vehicles. The system keeps record of incoming and outgoing time of each vehicle.
- Central registration of permit holders /disabled users/ car park users. No need for access cards or codes.
- Blacklist: Warning when unwanted car appears at the gate.
- Easy registration of guest vehicles for given time period.
- User and administrator access rights.
- One PC can control up to 4 cameras.
- Manual gate opening option from the controller PC.

ParkIT access control camera:

The ParkIT camera was designed for access control systems. Ideal cost effective camera from smaller systems to large projects designed for license plate recognition applications.

Designed for license plate recognition application, the camera includes synchronized illuminator unit providing ideal images during day and night.

During the development, besides the

high level of technical features (pan-tilt, hidden cabling), the focus was on the sophisticated, eye-catching design.

ParkIT is an easy installable, small and attractive camera. Extra software module is provided for easiest integration with CARMEN OCR engines and software modules.

ParkIT is an excellent choice for LPR/ANPR based access control, parking management systems.

Key features of ParkIT

- Easy installation and configuration
- Built-in synchronized IR illumination
- Auto day & night switching
- Barrier control functions (trigger in - out)
- Wall mount bracket with hidden cabling
- Adaptive systems modify the image to ensure a clear view of the vehicle is captured regardless of the conditions

Application areas of ParkIT

- Access control (Entry & Exit) to restricted car park or vehicle storage area
- Maximum stay car park management
- POE (Pay-On-Exit) car park management
- POF (Pay-On-Foot) car park management
- Security control / monitoring

Benefits of ParkIT combined with ANPR

- Full audit trail of all vehicles
- Reduced administration
- Low maintenance cost
- Better traffic flow
- Central registration of permit holders / disabled users / car park users no need for access cards / codes



For more information about ARH please contact Zone Technology on:

Auckland: (09) 415 1500

Wellington: (04) 803 3110

Christchurch: (03) 365 1050

Email: sales@zonetechnology.co.nz

Website: www.zonetechnology.co.nz

ZoneTechnology
Your Security Supply Partner

Data theft hitting unwary firms

The time to protect your IP is before it walks out the door

Too many companies are slack when it comes to protecting their intellectual property and confidential data.

According to a survey carried out by Symantec last year, half of all the people who left or lost their jobs in the last 12 months kept confidential corporate data. And the security software company's just-released report reveals that 40 percent of those people plan to share the stolen data with their new employer.

The results show that every day employees' attitudes and beliefs about intellectual property (IP) theft are at odds with the vast majority of company policies.

According to Symantec, employees not only think it is acceptable to take and use IP when they leave a company, but also believe their companies do not care. Only forty-seven percent say their organization takes action when employees take sensitive information contrary to company policy and sixty-eight percent say their organization does not take steps to ensure employees do not use confidential competitive information from third-parties.

"Organizations are failing to create an environment and culture that promotes employees' responsibility and accountability in protecting IP," says Lawrence Bruhmuller, Vice President of Engineering and Product Management, Symantec.

Acceptable

Among the survey's highlights are that employees move IP outside the company in all directions.

Sixty-two percent say it is acceptable to transfer work documents to personal computers, tablets, smartphones or online file sharing applications. The majority never delete the data they've moved because they do not see any harm in keeping it.

Most employees do not believe using competitive data taken from a previous employer is wrong. Fifty-six percent of employees do not believe it is a crime to use a competitor's trade secret information; this mistaken belief puts their current employers at risk as unwitting recipients of stolen IP.

Employees attribute ownership of IP with the person who created it. Forty-four percent of employees believe a software developer who develops source code for a company has some ownership in his or her work and inventions, and forty-two percent do not think it's a crime to reuse the source code, without permission, in projects for other companies.

"Organizations are failing to create a culture of security," says Bruhmuller. "Only thirty-eight percent of employees say their manager views data protection as a business priority, and fifty-one percent think it is acceptable to take corporate data because their company does not strictly enforce policies."

Employee education

"Organizations need to let their employees know that taking confidential information is wrong. IP theft awareness should be integral to security awareness training," says Bruhmuller.

He recommends firms ask all staff sign non-disclosure agreements.

"In almost half of insider theft cases, the organization had IP agreements with the employee, which indicates the existence of a policy alone – without employee comprehension and effective enforcement – is ineffective.

Include stronger, more specific language in employment agreements and ensure exit interviews include focused conversations around employees' continued responsibility to protect confidential information and return all company information and property (wherever stored).

Make sure employees are aware that policy violations will be enforced and that theft of company information will have negative consequences to them and their future employer."

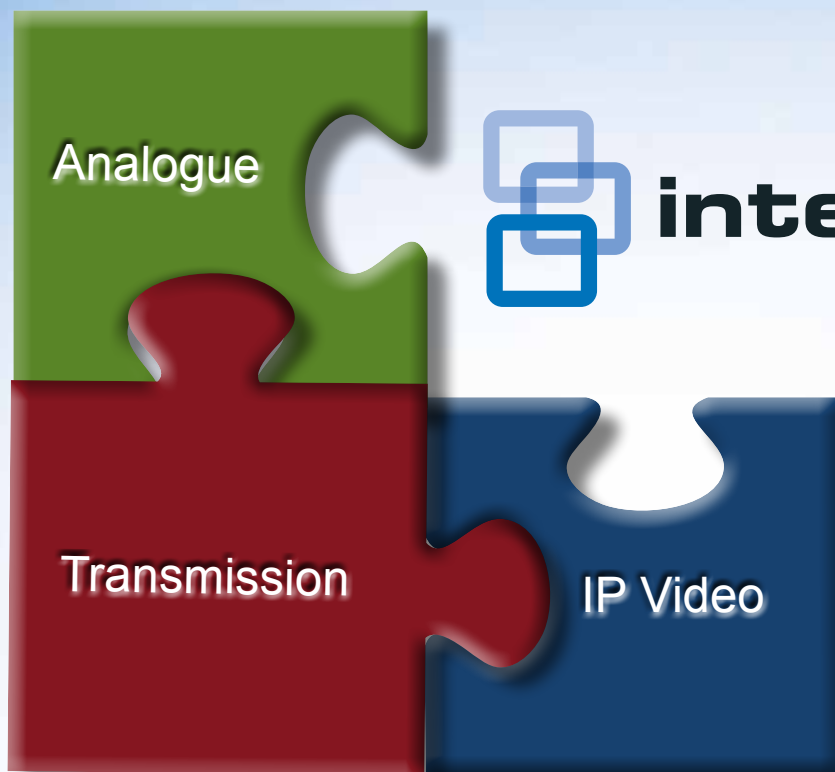
Monitoring technology

Bruhmuller recommends firms implement a data protection policy that monitors inappropriate access and use of IP, and automatically notifies employees of violations, which increases security awareness and deters theft.

"Companies cannot focus their defences solely on external attackers and malicious insiders who plan to sell stolen IP for monetary gain," he says.

The everyday employee, who takes confidential corporate data without a second thought because he doesn't understand it's wrong, can be just as damaging to an organization.

"Education alone won't solve the problem of IP theft. Companies need data loss prevention technologies to monitor use of IP and flag employee behaviour that puts confidential corporate data at risk."



All the
pieces you
need to win.

Grow your business with the fastest
growing global brands.



- ✓ Network Switches
- ✓ IP to Fibre
- ✓ Coax to Fibre
- ✓ IP to Coax
- ✓ Media Converters
- ✓ UTP Products



- ✓ Cameras
- ✓ DVRs
- ✓ NVRs
- ✓ Hybrid DVR/NVR
- ✓ Monitors
- ✓ IP Cameras
- ✓ Software



- ✓ IP Cameras
- ✓ Encoders
- ✓ Hybrid DVRs
- ✓ NVRs
- ✓ Extendable Storage
- ✓ VMS

For ideal security that protects your business and budget.



Surveillance Technologies Ltd
Phone: +64 9 448 2366
Fax: +64 9 448 2369
sales@surveillancetechnologies.co.nz

Authorised Interlogix CCTV Distributor and Repairs Centre

www.surveillancetechnologies.co.nz

USB Warned

The innocent-looking memory stick slots on your computers may help disgruntled staff steal your intellectual copyright, or – as Steve Hart reports - let staff inadvertently introduce a virus to your network.

The USB sockets on the front of most computers might cause a business owner more trouble than they are worth. Not only could a memory stick transfer a virus to your computer and network, they can also be used to copy commercially sensitive data from your system in a trice. It's a double risk that one IT security expert says no firm should have to worry about – if they disable their computer's USB sockets.



Dean Stewart of websafety.co.nz says there are plenty of cases of staff inadvertently infecting their employer's computers with viruses that have been brought in from their 'unprotected' home computer.

This can happen when staff use a memory stick to copy a file from their home computer to their work one. If the stick contains a virus it will copy itself to the computer when it is plugged in – all without the user's knowledge.

"Not all virus software 'watches' the USB ports, it can depend on how the software is set up – plus some businesses do not employ any anti-virus software," says Dean. "Businesses need to be careful about this, and make a decision on whether they want to allow people to use USB sockets.

"In the corporate world, large firms tend to lock off their USB sockets so they are not used. But plenty of smaller firms do not have the luxury of doing this unless they get someone in to do a manual change to the hardware registry [system software] of each computer.

"Playing with the registry is not something a business owner would want to do, because it can cause lots of problems.

For smaller businesses I'd say all it would take is an effective acceptable use policy, letting staff know they shouldn't insert any un-authorised equipment into work computers.

Staff need to be made aware of the risks of plugging gadgets from home in work computers and of visiting certain websites – they need to understand that they take responsibility for what they do."

Dean says a physical cover over USB sockets wouldn't be enough to prevent them being used, but says there is software available that would allow computer administrators to turn off the USB sockets and optical disk drives.

One situation he recently came across was a firm losing access to its customer database directly as a result of a virus being introduced by a member of staff with a memory stick.

"The virus infected a computer that was connected to the network one Thursday," says Dean. "On the Friday and the following Monday staff started saying the system was running slow. But it wasn't until the Wednesday that the IT guys discovered a virus."

The firm's major network drives were taken off-line – meaning call centre staff could not access their customer database for one whole day. The drives were restored from the back-ups to get rid of the viruses.

“Once you understand [the risks], you can see why big companies are locking down their systems,” says Dean. “From a small business perspective, they might call on a PC fix-it man. They seem to spend most of their time cleaning viruses off machines, only for them to be infected again later.

A lot of smaller businesses are just not understanding this and are going round in circles because they don't have effective anti-virus software, or an acceptable use policy for their staff to follow.”

On the other side of the coin, Dean says memory sticks are an easy way to copy files from a work computer and take them home.

“Just think of things such as customer databases, or sensitive company information that might be valuable to another company if someone is leaving the business,” he says. “It is a risk to the business of virus infection [during the act] as well as the potential for data leakage. USB sticks are very small and can hold a lot of data.”

Dean also has a word of warning for companies that allow staff unfettered internet access from their work computers.

“What I have seen in the corporate space is that big businesses have a fairly locked down policy as far as internet use is concerned,” says Dean.

“However, I also know that a lot of corporates have a very open policy. In this case they will use software that will block categories that an internet site might fall into. The obvious sites to ban are pornography, nudity and adult material, because those sites are unacceptable in the workplace.

Corporates will also look at categories that fall into the security realm, so sites about hacking, malicious or suspicious software and proxy. But they will leave everything else open, such as your social networking and shopping sites.

The firms that leave these sites open make staff accountable. So with good monitoring, and filtering software in place, a business owner can run reports on any staff's use of the net.”

Dean says the biggest issue when it comes to workplace computer security is down to general consumers not understanding the risks of going online.

He says most new domestic computers come with a year's subscription to anti-virus services, but when the year is up, people aren't paying to subscribe to new updates to protect their computer.

These updates feature the codes to spot viruses that were not around when the computer (and the anti-virus program) were first sold.

“These programs may silently stop functioning unless an update is paid for and a lot of non-technical users don't understand that,” says Dean.

“Then the children jump on the computer, go to an online game site – some of them are infected with malicious codes that are transferred to the home computer – and the computer runs slower and slower.”

For business owners, now is the time to consider how your computers and intellectual property are being protected, to consider introducing an acceptable computer use policy for all staff and make sure your data is backed up safely (ideally – off-site).

Unlocking potential

More than one million New Zealanders have literacy and numeracy skills below those needed to participate fully at work, home and in their communities.

Want to know how literacy can improve productivity and staff engagement in your workplace?

The Skills Organisation has a team with ideas, tools and resources to help you get the best out of your staff.

Contact us on **0508 SKILLS** (0508 754 557) or info@skills.org.nz.

skills.

The Skills Organisation
skills.org.nz

Raytec White-Light Saves Energy for Public Sector IFSEC Award

Finalist for Security Project of the Year

Raytec were an IFSEC Awards finalist in the “Security Project or Installation of the Year” category, for their recent LED lighting installation at the University of North Tees Hospital, in the UK.

The ground breaking, multi-purpose White-Light project is the first large scale NHS LED lighting project of its kind in the UK. RAYLUX White-Light illuminators from Raytec including the new RAYLUX Urban, replace old style inefficient lighting to deliver lighting for not only surveillance but safer environments, revealing the potential for significant energy, CO2 and cost-savings in the public sector.

RAYLUX Urban provides crystal clear White-Light, when lighting is required not just for cameras, but also for people. Urban LED illuminators provide significant energy savings compared to traditional lighting and have an attractive design making them suitable for down-lighting applications including car parks, schools, colleges, hospitals, and pathways.

Illuminating the University Hospital of North Tees is one of the first examples of the security industry diversifying and identifying opportunity to provide lighting for cameras and lighting for pedestrians, all on the same project.



SECURE THE PERIMETER!



OPTEX PHOTOELECTRIC BEAMS
// YOUR FIRST LINE OF DEFENCE

Available now at Hillsec



Having already supplied North Tees Hospital with Raytec IR lighting, security installer Visual Security Systems saw the potential to deploy Raytec White-Light to save energy and money whilst improving the performance of the site's exterior lighting. The NHS Trust for North Tees and Hartlepool wanted to reduce the high running and maintenance costs from their 95



old external lights, which were not only energy hungry but highly unreliable. The 250W and 400W metal halide car park lighting had a high rate of failure and the 70W sodium lighting surrounding the hospital ring roads had poor, dull colour rendition and was very slow to start.

RAYLUX Urban units were installed to down light the hospital ring roads and pathways, whilst Raytec's conventional RAYLUX White-Light illuminators were used to cover large car park areas across the site. The illuminators are energy efficient, quick-start and reliable, delivering a safer, more evenly lit environment for people and vehicles on site, whilst the accurate colour rendition of the units allows the site camera system to achieve better surveillance images during the hours of darkness.

As well as highlighting best practice for multi-purpose site lighting, this project leads the way from a green perspective. Based on power consumption and life-time of the products, the Trust is set to significantly reduce carbon emissions and save 40 tonnes of CO₂ per year. With 70% power savings, the trust will also save up to £8000 a year on running costs and maintenance. Over the ten year life of the installation, the savings are expected to total up to £80,000.

"We are delighted to be leading the way and we hope that others will follow," says Richard Speight, the Trust's Head of Facility Management. "We have made these savings without any compromise on quality. We provide acute services to more than 40,000 people living in Stockton-on-Tees, Hartlepool, East Durham and parts of Sedgefield and as a 24-hour-a-day operation it is essential that we provide good quality lighting that won't fail.

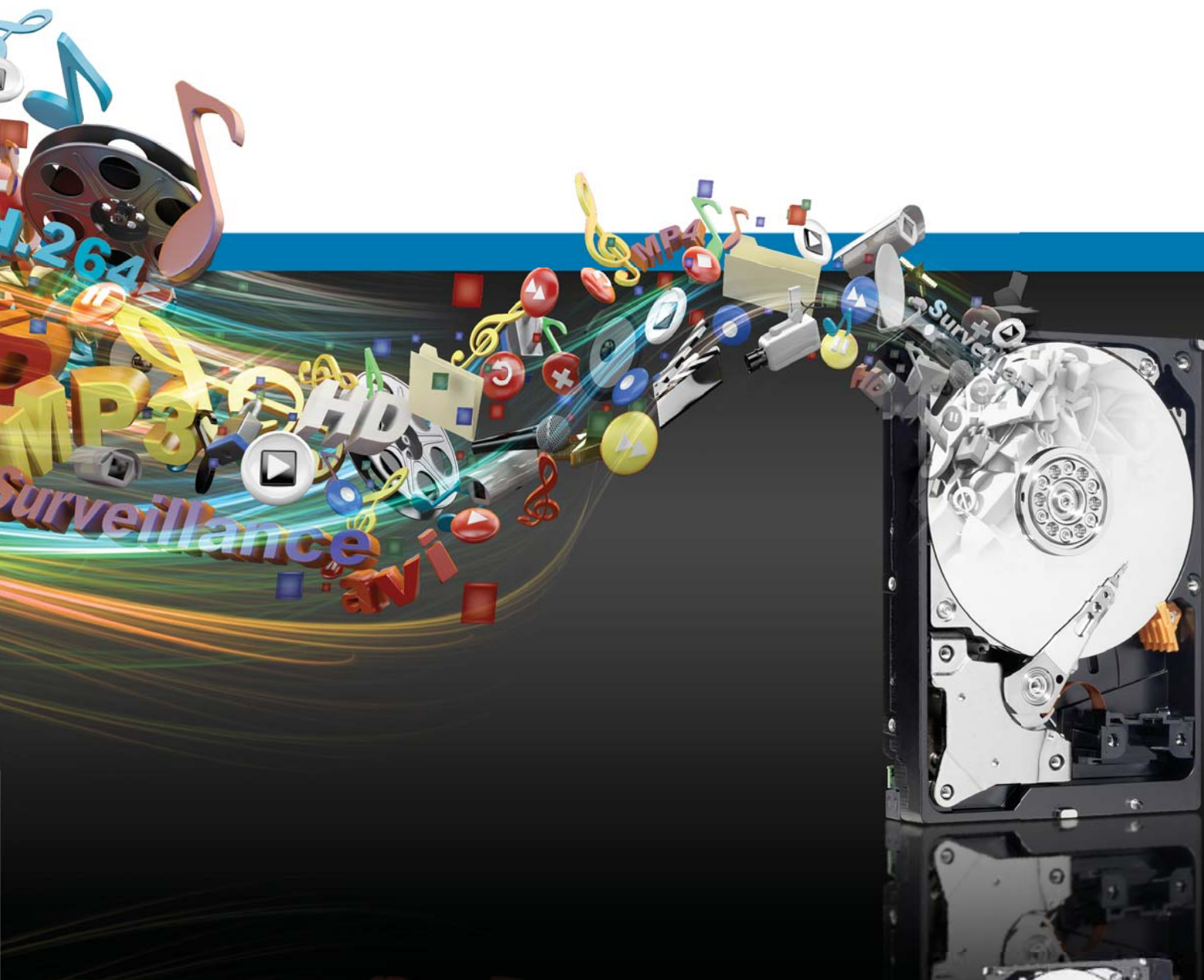
We also have a duty not to waste public money – which is why we're investing in this smarter lighting technology which will deliver substantial ongoing savings."

Given this phenomenal success, NHS Trust for North Tees and Hartlepool plans to extend the Raytec lighting scheme across all of its premises to further reduce bills and improve performance.

Raytec products are available at Hills Electronic Security
For more information, visit www.hillsec.co.nz or
email marketing@hillsec.co.nz.

Get more excitement out of today's

multimedia applications.



Storing and streaming HD multimedia requires 24x7 AV-class performance.



If you're looking to get the most out of today's high-definition streaming multimedia, WD® has the hard drive for you. AV-class hard drives by WD are designed for optimized performance and smooth audio/video playback in always-on 24x7 environments such as DVRs and set-top boxes. With capacities up to 2 TB, you'll have all the storage capacity you need for movie and music files. And of course, you'll get the quality and reliability WD is known for worldwide. HD streaming multimedia never had it so good.



WD AV-Class Hard Drives



PUT YOUR LIFE ON IT®



Western Digital, WD, the WD logo, and Put Your Life On It are registered trademarks of Western Digital Technologies, Inc. in the U.S. and other countries; Other marks may be mentioned herein that belong to other companies. Product specifications subject to change without notice. ©2013 Western Digital Technologies, Inc. All rights reserved. One gigabyte (GB) = one billion bytes. One terabyte (TB) = 1 trillion bytes. Total accessible capacity varies depending on operating environment.

2078-771093-A01 May 2011

Smaller Cameras That Deliver The Full Picture

Greater use of video cameras in vehicles, together with button-hole cameras that can be covertly worn, or hidden in offices, are helping Christchurch firm Viewtech grow its business across the country.

Former TelstraClear Employee Darren Jenkinson started Viewtech in 2006, on a platform of never letting customers down. Darren draws upon his 10 years experience in Community Access TV, IP, Hybrid Fibre Copper and Copper Network arenas to now pick and choose high quality CCTV products for sale in New Zealand.

"We believe that supplying good products and delivering absolutely first class customer services are the keys to our success," says Darren.



Darren Jenkinson is the Managing Director of Viewtech Ltd which he started in 2006

"We are a small firm, and that is our strength. When people call us, they will probably speak with someone they know. This is reassuring for customers and really helps to build a close relationship and it means that our customer service remains outstanding."

"We want to offer complete peace of mind, and we don't want to see an end user disadvantaged due to the rare occurrence of equipment failure. The full replacement guarantee Viewtech offers its clients helps set us apart."

Darren sees his firm as one that sources good quality equipment and supports professional installers, private investigators and integrators to work smarter.

"Our strength as a company is our strong sourcing ability and customer service," he says. "We have a comprehensive network of brilliant suppliers based around the world."

"We focus primarily on integrators and installers but do supply to end-users who are carrying out their own in-house work. Due to the nature of some of the covert gear that we supply, generally speaking the fewer amount of parties involved the more successful the operation."

Darren says although they supply Analogue, IP and HD-SDI technology the vehicle side of CCTV monitoring is quite a big area for the firm, and it's one that is growing fast.

"The products we supply are being used by some major trucking fleet owners," he says.

"Because of the miniaturisation of cameras, and the fact that the resolution is improving at the same time, and the



12MP GSM 940m Camera

recorders are getting smaller while using SD memory cards, it means that these types of applications are now more mainstream."

Darren says cameras such as the ones Viewtech supplies are helping drivers to be safer on the roads, safer when making deliveries and that the cameras can be used on static machinery too.

"Drivers used to feel they were being spied upon when cameras were fitted to their vehicles, but now most realise that so long as they are operating within the law, and being safe, then the cameras are there to protect them," he says.



"Our gear is used on trucks, in the marine & agricultural industries and on fixed machines. One of the main reasons for having cameras is the health and safety aspect. Cameras enable operators to see things they wouldn't normally see from a fixed vantage point."

"There are two functions for this type of system. One is to give the driver or machine operator more 'eyes'. The other is to record what the cameras see, while being a record for the company."

"Company managers can review footage and ensure safety guidelines are being followed. And if anything is not being done correctly, the employer can organise further staff training, as required."

"Drivers and machine operators understand that cameras are there to protect them. Most operators of large machines and vehicles are normally 'guilty' until proven innocent – cameras that record footage can solve these types of questions in a few minutes."

"It's an old school thought to think that cameras are against people, they are really there to help and protect everyone."

"Covert cameras and equipment also makes up a large part of our business."

"We supply private investigators with cameras they can wear," he says. "Bailiffs also use them when serving papers."

"In fixed applications these tiny cameras are also helping retailers reduce shrinkage. The cameras are so small you would never know they are there."

"In one case a customer of ours installed one of our GSM cameras at a

quarry. Once activated it sends a picture to your phone. Within a few weeks the recipient was alerted to diesel theft and immediately called the police who apprehended the suspects on-site – their car was full of empty fuel cans waiting to be filled."

Darren travels to security trade shows around the world bi-annually to keep tabs on new products and international trends in CCTV and security technology.

He says the future of video surveillance ultimately belongs in the cloud – but it won't happen here until New Zealand's broadband network is capable of delivering faster data transfer speeds.

"As soon as the internet speeds become faster, then we should see a lot more cloud-based storage and a lot more in the mobility space in relation to surveillance."

"The aim is to potentially do away with the on-site hard drive for storing video."

"The earthquakes we had in Christchurch proved how delicate hard drives could be, so storing data remotely from cameras has multiple benefits. There wouldn't be one business in Christchurch which did not revise its data backup policy after the earthquakes."

"So the potential for cloud based video storage will come for all of us, but not for some time yet in New Zealand."

For more information about Viewtech, its products and services contact

Darren on:

Phone: 0800 888 324

Mobile: 021 992 511 or go to

Web: www.viewtech.co.nz



0800 888 324 www.viewtech.co.nz

Bullets & Miniatures



Drive Cameras & Vehicle DVR



Analogue, HD-SDI and IP



**All in stock for your convenient
overnight delivery**

See it all with Panomera and CRK

A new design of camera that has been embraced by major European sports and leisure venues has now landed in New Zealand, writes Steve Hart

Using cameras to keep an eye on large crowds, such as those at major sports stadiums, airports, large car parks and casinos, can have its challenges.

One issue is keeping camera lenses wide enough to see large groups of people, while at the same time being able to pick out the faces of trouble makers, zoom in and track them – without losing the overview.

Dallmeier's tried and trusted technology is now able to perform this task using a unique multifocal sensor system, a single camera unit featuring up to 17 sensor chips (effective to 68 Mega Pixels) and lenses can be independently operated. Not only that, but each lens has a different focal length.

In fact, one of the new cameras was successfully trailed by CRK Auckland in March 2013.

Established

In Europe though, Dallmeier's Panomera camera system is well established helping to keep sports fans safe at venues such as the Borussia-Park stadium in the German city of Mönchengladbach amongst others.

Due to this completely new lens and sensor combination that comes in a weather-proof unit distant objects can be recorded with the same resolution as objects that are much closer to the camera.

"With resolution of this order we can create a passport-sized photograph of a culprit from over a hundred metres away," says Bernhard Nießen, head of stadium operations and security officer for Borussia-Park venue.

We are providing even more comprehensive security coverage and we can track down offenders more effectively.

As soon as an incident occurs, the police can focus on individuals, using the zoom function. So suspected offenders can be brought to justice on the day of the match.

The recordings are also stored digitally. This enables us to carry out a thorough investigation that will stand up in a court of law.

This capability is also deterrent in nature, and is intended to make individuals think twice before they commit an offence.

Roland Meier, team leader, Panomera Multifocal Sensor Systems at Dallmeier, says:



"...we can create a passport photograph of a culprit from over a hundred metres away."

Bernhard Nießen, head of stadium operations and security officer for Borussia-Park, Germany.

"The camera works as if you were to combine the advantages of an overview camera with a high optical zoom PTZ camera in one unit.

Panomera records the entire area continuously, like an overview camera. But unlike a PTZ camera, for example – with which only the currently active zoom area is recorded – Panomera camera records the entire coverage area continuously.





Smatrix – the clever Video appliance with integrated storage system

Small, smart, green: The Smatrix is a VideoIP appliance with an integrated storage system, perfectly tailored to the needs of video security technology. Whether used with only network cameras in a purely IP enterprise, or in joint hybrid operation together with analogue cameras – the Smatrix is flexible and supports the newest HDTV technologies.

The Smatrix stands out due to its space-saving structure as well as low power consumption and heat emissions; that helps the environment and saves money!

The Smatrix is optimally suited for applications, which require a high recording speed, enhanced storage capacity and low power consumption while providing maximum security.

Made in Germany – made by Dallmeier.



Panomera L-Series

In Leverkusen, a city on the eastern bank of the Rhine, the Panomera video system is delivering pinpoint sharp images of people in the stands at the Bay Arena.

Meier says: “With the new digital cameras, and in close cooperation with their security experts and the police, the football clubs that use the Bay Arena stadium can respond to incidents more rapidly and more precisely, and thus improve security inside the stadium.”

Bay Arena staff are using the cameras to cover areas of the stadium where criminal or violent acts are most likely to occur.

Recordings

This new CCTV system records “high definition scalable up to 68MP” “at a rate of 12.5 images a second. Although this is half the speed of broadcast video, it still means that actions that take place within a few fractions of a second can be detected clearly. In all, 2.8 billion pixels are transmitted by the cameras every second.

“With Panomera, operators can step back through the recorded footage one image at a time to determine very precisely who lit a Bengal fire, for example,” says Meier.

IPS 2400 recording servers with integrated storage system can be used to store footage. These high-performance appliances are known for their reliability



and high level of availability, which is achieved by recording with RAID 6 storage technology and redundant power supply units. If necessary, the data can also be stored remotely and archived indefinitely.

Multi-user

The multiuser capability of the Panomera is also useful as more than one person can control a single camera. In fact an unlimited number of operators can navigate across the entire scene independently of one another.

Even though all operators are connected to the same camera each user can select his view individually and zoom or pan as he desires or perform evaluations of the recordings at the same time. Analyses can be carried out by any number of people at various workstations simultaneously.

For example one person may be watching the live overview image while another zooms in on people behaving suspiciously and yet another person can search the recordings for information perhaps reviewing events leading up to a disturbance.

In order to enable yet faster response times pictures of suspicious people can be sent to the mobile devices carried by police and security staff in a few seconds.

“In this way, they can be accessed by police and security staff on the ground even faster,” says Meier.

“With the new video system, and in close cooperation with their own security specialists and the police, operators can respond to incidents faster and more accurately, and so enhance safety.”





Smatrix – the clever Video appliance with integrated storage system

Small, smart, green: The Smatrix is a VideoIP appliance with an integrated storage system, perfectly tailored to the needs of video security technology. Whether used with only network cameras in a purely IP enterprise, or in joint hybrid operation together with analogue cameras – the Smatrix is flexible and supports the newest HDTV technologies.

The Smatrix stands out due to its space-saving structure as well as low power consumption and heat emissions; that helps the environment and saves money!

The Smatrix is optimally suited for applications, which require a high recording speed, enhanced storage capacity and low power consumption while providing maximum security.

Made in Germany – made by Dallmeier.



All Eyes On Airport Hangars

Multifocal cameras used by a luxury jet firm in Germany are distributed in New Zealand by CRK

What companies in other countries are using is a tried and trusted way for New Zealand firms to pick up on emerging trends and new ideas.

While most good ideas that are developed abroad eventually gravitate to our shores, Auckland security technology firm CRK is reaching out to get a head start.

Among the companies it came across is Aero-Dienst, which is using a patented multifocal sensor system to ensure the security of all four of its hangars at Nuremberg Airport.

While aviation may be of interest to CRK, it is the Panomera cameras that Aero-Dienst uses that caught the firm's attention. Aero-Dienst, which employs 300 people, provides maintenance services to business jets owners.

"We intend to afford our customers the highest level of security when they entrust us with the care of their jets," says the firm's Managing Director, Martin Bauer.

He says his company was searching for a video surveillance system that would meet its needs and was leaving nothing to chance in the process. A number of

providers were reviewed, and no less than three test installations including cameras from various manufacturers were tried. But none met the company's requirements.

"Until we saw the Panomera from Dallmeier. This approach was really impressive," says Martin Bauer.

Multiple lenses

The Panomera multifocal sensor system is not only exceptionally powerful, it has been patented because it is unlike any other system on the market.

Unlike conventional HD cameras, which only have one lens, Panomera functions with multiple lenses, each of which has a different focal length.

With this novel sensor concept, surveillance can be ensured – even for extremely large areas – at the highest possible resolution and to the farthest background of the area of coverage.

Two Panomera systems were installed in each hangar at Aero-Dienst, in opposite corners of the structure.

"We have a total overview of the entire hall with no blind spots, using just four cameras" says Roland Meier, the team

leader for Panomera Multifocal Sensor Systems at Dallmeier.

"That is an area of well over 1,300m². All four hangars will be subject to surveillance in this way."

The images are recorded in high definition and stored for up to 90 days on video servers manufactured by Dallmeier.

This will enable any incidents that occur to be replayed and reviewed.

Andreas Bengelstorff, head of security at the business jet firm, says: "There really is not a single blind spot that we can't see anywhere in the halls any more."

This means we can offer our customers the most comprehensive security possible. We also have a much better view of the scene ourselves, which will help us to optimise our own processes and workflows."

More details, less cost

The high resolution is not the only advantage that comes with the Dallmeier solution.

"The other offers that were submitted in response to our call for tender specified the use of at least 14, or even 18 cameras in order to provide coverage of the area for which we now need just four cameras," says Bengelstorff.

"So we also only need four installation locations, not 18. That represents an enormous saving in terms of installation, infrastructure and maintenance. Ultimately, we have decided on the solution that is not only technologically unrivalled, but also the most cost effective."



For more information on our CCTV products please contact CRK:

ph: 09 276 3271
mob: 021 999 366,
apirani@crknz.co.nz,
www.crknz.co.nz



Made in Germany

Dallmeier

PANOMERA

Multi-sensor system – up to 51 megapixels in real time



CCTV System Saves Operators Time

Honeywell has announced an updated version of its digital closed-circuit television surveillance system, Digital Video Manager (DVM).

The latest release, DVM R500, sets new standards in operational efficiency, cost effectiveness and performance through a redesigned user interface, smart diagnostics and forensic search capabilities, and improved integration with access control and other security technologies.

The user interface is the most visible enhancement to DVM R500. The updated design follows established multimedia interface principles, which creates intuitive, agile navigation, helping boost productivity and reduce security event response times, as well as training costs.

These improvements are augmented by smart diagnostics modules that analyse system operations to help security operators quickly process activity reports, run system diagnostics, and check system performance and status.

"This is one of the most dynamic, user-friendly systems I've seen," says Ken Yildiran, security officer for the Museum of Old and New Art, a DVM customer located in Hobart, Australia.

"The analysis and reporting that would normally take four to five hours is now measured in minutes, allowing our operators to focus on other critical duties."

New recording and playback capabilities, combined with the improved interface, can also help security personnel quickly pinpoint potential threats and react before they become incidents. By providing



various, time-coordinated views, the same tools can reduce forensic investigation time after an event.

These features include:

- Synchronised and instant playback of multiple cameras
- Motion searching that detects movement in a selected area and tags it for review
- Timeline scrubbing to quickly locate critical incidents and footage

In addition, DVM R500 helps decrease lifecycle costs by leveraging global open security standards such as ONVIF to enhance system interoperability. This enables organizations to use the latest security cameras and equipment while protecting past technology investments.

DVM R500 is also an integral component of Honeywell Enterprise Buildings Integrator (EBI), an award-

winning building management system that ties all aspects of a security solution together, including video, access control and intrusion detection.

This gives users a single point of access to all the essential information and resources needed to monitor, manage and protect a facility, campus or multi-site operation.

As a result, security directors have optimised visibility and intelligence, and can deploy their staff and resources more efficiently and effectively.

"To stay ahead of the increasing threats impacting businesses and organizations, security personnel need advanced-yet-cost-effective technology to protect their assets and promote safety," says Paul Orzeske, President of Honeywell Building Solutions.

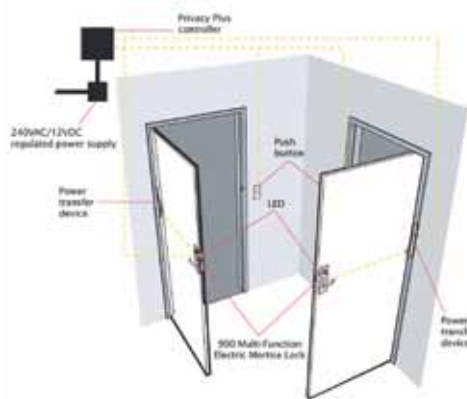
"DVM R500 helps users identify and address would-be issues before they cause problems or damage – all while increasing ease of use and operational efficiency."

Legge Privacy Plus – Four Levels of Privacy and Security in One

Legge Privacy Plus Electronic Lock System from Ingersoll Rand offers a simple solution to managing access to one room through various doorways. From hospitals with shared ensuite, to medical facilities with sterile rooms and jewellery stores with secure entrances, managing entrances for safety and security reasons can be complicated. With four systems in one controller, Legge Privacy Plus makes it easy and the new unique nurse call function, notifying staff if the occupant has been in a room for longer than a designated time, further emphasises Ingersoll Rand's commitment to providing safe environments.

Whether it is Standard Privacy, Secure Privacy, Air Lock or Man Trap configurations you need, the innovative Privacy Plus controller meets all requirements.

Standard Privacy - while the room is vacant all the doors are unlocked. Once a switch is activated inside the room, both doors are locked until any internal lever is operated. This configuration is simple



to use and allows multiple access and exit points, needed in applications such as dark rooms, conference rooms, and sound studios.

Secure Privacy – while the room is vacant all doors are locked. Pressing a switch from outside the room unlocks the corresponding door allowing entry. The configuration only allows exit through the same door, preventing inter-room travel and ensuring the privacy needed in shared ensuite in hospitals and aged care facilities.

Air Lock – all openings are unlocked while the doors are closed, but when one door is opened the other is locked. This creates a safety zone needed in operating rooms, research facilities and animal enclosures.

Man Trap – Both doors are locked and are only unlocked by an external switch or a timer. Nobody can enter or exit the room without activation from an external push button, ideal for high security facilities such as banks, jewellers and laboratories.

Combined with Legge electric mortice locks and door furniture, the Legge Privacy Plus Electronic Lock System presents a high performing, aesthetically pleasing option for any commercial space with multiple access challenges. The locks can be activated by a number of devices including switches, credential readers and keypads.

For more information please
contact Customer Services on
0800 477 869 or visit
www.legge.co.nz



Privacy Plus Lock System

Easily manage multiple access to one room with the Legge Privacy Plus Lock System

- Four functions in one controller; Standard, Secure, Air Lock and Man Trap
- Complete system in one packset
- **New** nurse call function



0800 477 869 | www.legge.co.nz

IR Ingersoll Rand
Security Technologies

IP video surveillance: How cameras and applications are getting smarter

By Martin Gren

Living with intelligent devices is a dream we have had for centuries. Michelangelo, Jules Verne and many other great thinkers had this vision, but their vision preceded the technology of their time. With Moore's law and all the technology we have created, isn't it time for this dream to come true?

The intelligent home is slowly emerging after many false starts – albeit not the clever Jetson's fridge but we have automatic thermostats to learn our home preferences and control heating and cooling. I've had my automatic lawnmower for more than 10 years. While I'm a happy user, the technology is not yet common.

In our industry, guard responsibilities have remained more or less the same because technology cannot match the human brain's abilities. But advancements in camera and software technology is enhancing guard efficiency as they can be guided by video on smartphones or tablets and cameras that actually send alerts proactively. This is just the beginning.

Smarter resolution

IP-based cameras are not restricted to the low image resolution achieved by analog cameras. With HDTV-compliant cameras, you get dramatically more video detail than with an analog camera, just like you have in your living room. But today we've moved slightly away from the more-pixels-is-better concept, and instead have concentrated on delivering better image usability in all lighting scenarios and environments. Thanks to better processing power and in-camera software, IP cameras are hitting the market with increasingly better WDR and light sensitivity (i.e. Lightfinder) with precise iris control.

Smarter design

Pinhole cameras are great for covert applications, however this was one of the few areas where IP cameras were not an option. Traditional solutions used an analog camera attached to a video encoder. But by separating the optical unit from the network camera's "guts," it is now possible to make all-digital IP pinhole cameras with HDTV quality. This could be inside your ATM, drop ceiling in a store or any other place where discreet installations are a must.

Smarter analytics

There has been so much talk about the advanced analytics that people tend to forget the value of the most basic ones. After all, what is the value of a camera when someone has covered the lens with chewing gum, lipstick or spray paint? With 2-way communication, network cameras can send operators alerts of tampering or other failures. In the same manner, we see video motion detection becoming better and better, and today you can expect it not to generate the previous false triggers caused by switching on and off the lights. With thermal network cameras you can detect people and animals with high accuracy in places they are not supposed to be, which makes the technology an ideal combination with analytics.

Smarter integration

Network cameras communicate in both directions, providing the ability to be integrated with other devices such as access control, point of sales (POS) terminals and more.

With the intelligence and better processing power in the cameras,



Martin Gren is one of the three Co-founders of Axis Communications

they are now able to run embedded applications such as people counting, cross line detection and advanced video motion detection. Even more advanced applications previously only possible on a dedicated PC or server, such as license plate recognition, facial recognition and full VMS suites, can be found.

I believe we will see even more applications emerge over the coming years as more software developers begin to use open camera platforms as their new playground.

Smarter deployments

Memory sizes are growing with Moore's Law and edge storage offers many new benefits, which will turn into a game-changer. As capacity grows within the next decade, you will be able to store years of

video in the highest resolution inside the camera with a lower resolution stored in the VMS or the cloud. The role of the Video Management System will remain critical to managing all the cameras, but for the smaller installations camera-based recordings with a cloud solution for monitoring will be the norm.

Even smarter compression?

There is one trend going in the opposite direction: lower compression. In the early days of IP, all video was stored as individual JPEGs. Next came MPEG-4 but with very low uptake, as the benefits were not worth the efforts to change. But since H.264 compression was so much

better and the need for higher and higher resolution grew, the whole industry made the switch rapidly.

Thanks to better technology such as H.264 Main Profile, data rates are trying to keep up. But in many applications, city surveillance in particular, we have seen many users who want lower compression to see much more details. Higher resolution cameras tend to give more noise, which is difficult to compress. Fortunately, the cost of storage continues to fall with Moore's Law, creating the contrarian trend of lower compression desires.

The recently ratified H.265 standard will eventually make it to video surveillance.

The big question is if true bandwidth savings are enough, or just a minor enhancement. What is certain is that early implementations of H.265 will not offer much savings compared to H.264's emergence.

Smarter world

All these technology trends will hopefully change our society into a smarter, safer and more secure world.

The great thinkers of yesterday would be proud of what we've accomplished, but envious that they didn't have access to this great technology. Some of them for sure would have made extraordinary software developers today.

Arctic sailing expedition: Axis network camera masters biggest challenge yet

Axis Communications has released video footage from a recent Arctic expedition, testing the true strength of its cameras. Strong winds, rain, icy cold and constant movement. That was the life for an Axis' network camera while working as a lookout when the sailboat Belzebub II crossed M'Clure strait in the Canadian Arctic to become the first sailboat ever to achieve this feat.

The expedition team, consisting of Edvin Buregren, Nicolas Peissel and Morgan Peissel, was the first to sail the route from Greenland to Alaska, a route previously only been broken by an icebreaker. The equipment included an AXIS Q6034-E Network Camera, which was mounted in the top of the mast, for documentation and navigation, see film.

"When sailing through ice you need someone sitting in the masthead with a bird's eye view. It's the worst place you can be when you sail, weather, wind and movement is much worse up there than down on the deck," said Edvin Buregren, one of the international expedition team members of Belzebub II. "We had a WIFI network onboard that the camera was connected to. It meant we could control the camera and look around in 360 degrees without even turning our heads. It is an invaluable asset when sailing in difficult waters and harsh weather," said Edvin Buregren.

The expedition was made to be a visual example of the declining polar ice. "The Arctic is melting at an alarming rate and is clear proof of our disharmony with the planet. By sailing this newly opened route we hope that our expedition will play a small part in bringing further attention to climate change and contributing to a larger shift in attitudes," said Edvin Buregren.



For Axis the sailing expedition is proof that AXIS Q6034-E withstands very heavy use. "Axis outdoor video solutions are designed to withstand extreme weather conditions and to provide reliable surveillance at all times. That the network camera copes in extreme cold we already know. The same model has been up to 35,000 meters high by a stratospheric balloon where it is much colder than it can get on the ground.

But the expedition through the Northwest Passage in particular shows the camera is capable of being subjected

to tremors, vibrations, humidity and temperature changes for several months, which is very satisfying," said Erik Frännlid, Director, Product Management, Axis Communications.

Video footage of the sailing expedition from AXIS Q6034-E can be found here. More information, images and contact details about A Passage Through Ice expedition can be found on their website.

For more photos and resources, please visit: http://www.axis.com/sv/corporate/press/press_material.htm?key=arctic

NZSA Auditing Enters New Phase

NZSA's audit process aims to raise standards overall and to ensure that end users can rely on our members to provide quality service. The audits are conducted against codes of practice developed in conjunction with our members, and based on international best practice and the relevant ISO and Australian and New Zealand Standards.

In 2012 NZSA reviewed all of its existing codes of practice and added new codes to cover a wider range of member services. The codes now cover:

- Alarm Monitoring Centres
- Camera Surveillance Systems
- Electronic Access Control
- Intruder Alarm Systems
- Patrol & Response Services
- Secure Storage Destruction of Sensitive Material
- Security Guard Services
- Crowd Control Services
- Security Training Services
- Private Investigation Services
- Cash in Transit

All of these are downloadable from <http://www.security.org.nz>, except for the Cash on Transit code which is only released to members who are being audited against that code.

Government, officials and end users of security services recognise that these codes provide the only measurable standards

that apply across industry in New Zealand. As a result compliance with the codes is increasingly being used as a requirement for tenders and contracts. Long term they also have the potential to be included as part of the regulatory process.

All applicants for NZSAA membership are audited as part of the joining process. All existing members are audited on a three year cycle. The exception to this is the Alarm Monitoring sector who are audited every two years in compliance with the requirements of AS 2201.2 – 2004, Intruder Alarm Systems, Part 2: Monitoring Centres to enable NZSA to issue grading certificates.

NZSA requires all companies that are to be audited to initially complete a self audit against the code of practice. The codes have been developed so that this self audit is incorporated into the document.

Members should use the self audit to gather evidence that they will show to the auditor to demonstrate they are compliant against each of the criteria in the code. While the external audits are conducted every three years, we encourage members to conduct internal audits at least annually to ensure ongoing compliance.

If a member has any problems with the self audit these can usually be resolved through a phone call or via email; however we also offer pre-audit mentoring to help meet the standards if this is required.

Once the self audit has been completed and returned to NZSA an auditor is appointed and will contact the member to set up an audit visit.

Auditors are appointed by the NZSA Board and are people that have skills and knowledge within the field of the audit. They sign a formal agreement that includes confidentiality and an undertaking to acknowledge any conflict of interest. After an Auditor has been selected a member can advise the Association if they see there is a conflict of interest and another auditor will be arranged.

During the audit visit the auditor will use the same code of practice that has been used for the self audit. Members can make this process as stress free as possible by ensuring that they have the evidence they have identified when they did the self audit

available for the auditor to examine. Where possible we like to take copies of relevant documentation which is retained in secure storage as a record for future audits.

The auditor will also want to speak with some staff and clients. One unexpected consequence of many of the audits that have been conducted since the new legislation was introduced has been finding significant numbers of staff who either do not have Certificates of Approval appropriate to the work they are doing, or who do not have them displayed as required by the Act. While it is disappointing to find this, it is better for the members that it is discovered by our auditors than the DIA or MOJ with the large fines that will result. NZSA require immediate remedial action in those cases, and advise companies to introduce more effective systems to check.

The auditors will accompany patrols and visit sites to view operations or installations. We recommend that companies take the auditor to sites where there work can be clearly demonstrated – it is not a good idea to show us an installation that you have taken over from another company.

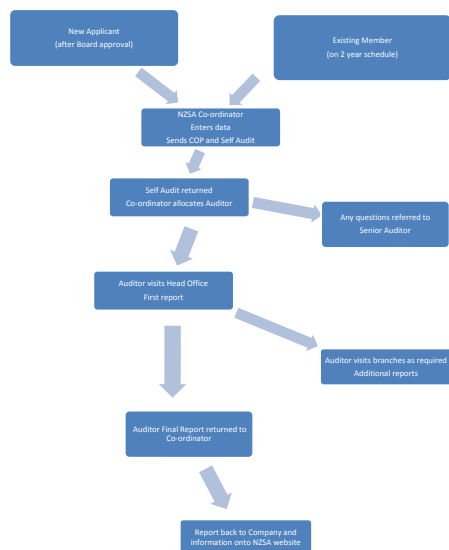
During the audit visit the auditor may ask the company to make some immediate actions. Other actions may be required when the audit report is sent out. The auditor prepares this report, with an Executive Summary for NZSA who will forward it to the member. The report outcomes are generally:

- No action required, the member is fully compliant and a Certificate of Compliance can be issued
- Some minor actions are required before the next audit, but a Certificate of Compliance can be issued
- Some actions are required before a Certificate of Compliance can be issued
- Mentoring is required to get the member to a position where they can be re-audited

On receiving the certificate the member is known as an Accredited Member of NZSA against the codes in which they are compliant, and can use this in marketing those services.

Greg Watts,
Executive Officer NZSA

The NZSA Audit Process





Dallmeier DMX 800 S-Matrix

Your ideal entry into the world of Video IP Solutions!

The Smatrix is ideally suited for applications requiring high-speed recording, expanded storage capacity - up to 10TB and low power consumption, while ensuring maximum security and uncompromising video quality.

The DMX 800 is a hybrid video recorder with integrated storage system for up to 16 free allocatable video channels.

Real-time Recording with support for cameras up to 8 megapixel. Using Dallmeier's exclusive compression system for constant frame rate and low bandwidth consumption.

The DMX 800 has a compact design(2HU) and is designed for mounting into a 19"rack.



Dallmeier DMX 2400 S-Matrix

A premium entry into the world of Video IP Solutions!

The Smatrix is ideally suited for applications requiring high-speed recording, expanded storage capacity - up to 24TB and low power consumption, while ensuring maximum security and uncompromising video quality.

The DMX2400 is a hybrid video recorder with integrated storage system for up to 24 free allocatable video channels.

Real-time Recording with support for cameras up to 8 megapixel. Using Dallmeier's exclusive compression system for constant frame rate and low bandwidth consumption.

The DMX 2400 has a compact design(3HU) and is designed for mounting into a 19"rack.



Dallmeier

DF4910HD - IR

A Superior IP Day/Night

Solution from Dallmeier!

The DF4910HD-DN/IR is a weather-proof 3-megapixel High-Definition IP network box camera with Dallmeier Cam_inPIX® technology, Automatic Day/Night switching and integrated IR (infrared) illumination.

The camera provides real-time Full HD video (and features automatic Day/Night operation supported by integrated ambient light sensing, a removable IR cut filter (ICR1) and an integrated homogeneous IR illumination provided by semi-covert 850 nm high power LEDs, Integrated IP66 Housing.



Nationwide Surveillance Solutions. Supplying New Zealanders for over 25 years.



Real Time IP Kit Plug & Play!

Ganz Real - Time High Definition recorder has everything on board (Built inDHCP, POE) - enabling a quick plug and play system. Eliminating the need for external switches and complicated Networks.

- 1 x Ganz 4CH NVR
- 2 x Ganz HD Dome Cameras
- 1 x 22" LG HD Monitor
- 1 x 4GB Usb flash-disk
- *Optional Cable available

iPhone, Android and Windows compatible.



4 Channel High Resolution Outdoor kit

An affordable and reliable solution for use in any outdoor environment where discreet surveillance is necessary.

- 4 x 700TVL Outdoor IR Cameras
- 1 x Pinetron 4 channel DVR
- 1 x 17" CCTV LCD Monitor
- 1 x Power Supply
- 1 x 4-Way Power Board
- 1 x CCTV Warning Sign
- 1 x 4GB Usb flash-disk

iPhone, Android and Windows compatible.



4 Channel Indoor Kit

An affordable and reliable solution for use in any indoor environment where discreet surveillance is necessary.

- 4 x 540TVL Cameras
- 1 x Pinetron 4 channel DVR
- 1 x 17" CCTV LCD Monitor
- 1 x Power Supply
- 1 x 4-Way Power Board
- 1 x CCTV Warning Sign
- 1 x 4GB Usb flash-disk

iPhone, Android and Windows compatible.



NZIPI Update

A Professional Investigator is a valueable member of any Security Review.

Shutting the door after the horse has bolted is often a necessary reality in my line of work. You see our clients often don't know they have a problem until the inevitable lack of profits or some other worse event opens up a hive of nefarious activities in their business.

The Professional Investigator gets called and in virtually every case the culprit or gang is caught and the whole scale of the matter is brought to the fore and dealt with. The next stage then is the shutting of the door and a prudent client opts to have a review of their security focusing on the lessons learned from the issue that has just been outed.

However, it really amazes me that very often the investigator who solved the matter is not part of the review team (I suggest, usually for fear of the investigator continuing to charge for their time). And so the client calls in a security retailer to quote on say a CCTV or alarm system or access control, etc. The result is that everyone thinks the previous issue is dead and buried, but like true nocturnal creatures, the bad guys are also conducting their own review for different reasons and the number of repeat jobs we see where the thieves have just changed the tact based on the security changes, is remarkable.

If we are talking about horses and shutting doors, surely it makes sense to have the right horse for the course and while it is dangerous for a Professional Investigator to claim expert security consultancy status without just cause, most Professional Investigators by virtue of their work and training are able to sniff out the scams and areas of vulnerabilities in a business for thieves and fraudsters to steal and can impart that knowledge to the security consultant who should then be able to give the client the best advice and not just sell their own products.

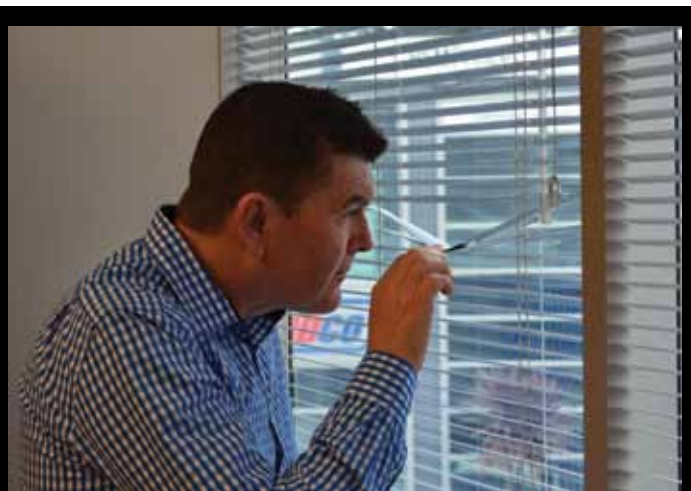
I am aware of a business that had massive stock losses and after an investigation called in security specialists. The result was an overkill of CCTV cameras and no focus on securing the valuable product inside the buildings from being taken away. The outcome was several large persons dressed in black, wearing black balaclavas seen leaving with product... Is that good business or good for the industry, I think not.

A Professional Investigator will always advise a client that security is one of the most productive parts of the business that contributes to the bottom line, accepting the old adage that 10% of workers are totally honest, 10% will be scheming a way to steal, and the remaining 80% are required to be kept honest. Security is in many cases the stable platform a business has surrounding it like handrails.

When it comes to security equipment, like shoes – you should always buy what fits you best – and the best you can afford. At the end of the day with quality comes reliability – and in the main, value for money. Every Professional Investigator I know will subscribe to the code of putting the client first.

In short, we will always give our impartial and truthful input into a security review properly conducted by any security company. We believe in deterring crime, it's what we live for, and we will assist any security sales person so long as their product is fit for purpose. My experience is that having a Professional Investigator on board as part of the review team leads to long term relationships with customers and cross referrals.

Ron McQuilter - Chairman NZIPI www.nzipi.org.nz



Ron McQuilter is the current chairman of the NZIPI and is Managing Director of Paragon Investigations

*Ron can be contacted by email:
Ron.McQuilter@paragonnz.com*



**NEW ZEALAND INSTITUTE OF
PROFESSIONAL INVESTIGATORS INC.**

The Investigation Of Employment Issues

The investigation of employment issues needs to be undertaken with care, because the consequences of the investigation, if handled incorrectly, can become disproportionate to the issue at hand. Invariably managers can be too close to the subject matter and/or employees to successfully maintain or prove impartiality, and of course the employer must at all times observe the fundamental tenant of employment relations, namely being fair and reasonable.

For this and other reasons of time management, expertise, and professionalism, the outsourcing of the investigation is often well worthwhile.

Take for example the issue of harassment, bullying and intimidation raised by a female employee against her workmates, including an accusation of a failure by her managers to act on



Philip Roigard CPP

Phil Roigard is a Licensed Private Investigator and Director of RISQ New Zealand Limited. www.risq.co.nz. He is also an Executive Committee Member of the New Zealand Institute of Professional Investigators (NZIPI)

A few simple tips for the prevention of adverse employment issues are:

- A robust pre-employment screening process.
- A good whistle blower hotline, whereby employees can inform on incidents without fear of victimisation.
- Managers appropriately trained to look for traits of employment problems.

her complaints. Clearly this required investigating by a totally independent source, which was done. The independent investigation turned the tables on the accusations, finding no evidence to support them, and considerable evidence of “contribution” by the complainant. The matter was resolved between the parties with the complainant’s uncontested resignation.

When issues of dishonesty are concerned, it is even more important to have these issues investigated by appropriately skilled forensic investigators. Take for example a company whose financial performance was contrary to the otherwise successful nature of the business. An internal audit raised a concern over a particular small supplier that appeared to have an unproven relationship to a senior manager. The investigation was outsourced to a forensic investigator who established not only a positive link between the supplier and the manager, but two further supplier companies with positive links to the manager and two other employees. Those links led to the establishment of a false invoicing trail involving over \$500,000.00 of offending in just a 12 month period. The employees were dismissed and subsequently prosecuted and imprisoned.

Take a further example of a company who was sustaining continual inventory discrepancies at one of its sites. Internal

audits had failed to identify the reason for the losses, other than to identify an unknown supplier to whom over \$300,000.00 had been paid for the supply of product over a two and a half year period. An external investigation established that the administration officer was inserting supplier dockets for the alleged receipt of goods that were not in fact supplied, to the accounts system that the administration officer controlled, and authorising payment of the dockets through the accounting system on a weekly basis. The employee admitted guilt, was dismissed and the matter referred to the Police.

Finally, consider the example of a company whose Information Technology costs were escalating out of control. An external investigation established that the IT Manager had been standing between the company’s suppliers and his employer by channelling the purchases through an entity that he controlled for over-inflated prices. The offending also included invoicing for product that was not supplied or needed. The totality of the offending over a four year period was \$1.6 million. The offender left the country but judgement was obtained against him in the amount of \$1.6 million.

Employment issues can also include matters of intellectual property, insider trading, illicit drug use and sexual harassment. Too many employers end up on the wrong side of the Employment Relations Authority, mainly through procedural errors rather than errors of fact. So the message is clear; be careful in your handling of employment issues. Invariably the argument will involve issues of your contractual fairness and reasonableness, together with the particular issue at hand. Poorly handled will cost you, notwithstanding that the fact that you may well be predominantly in the right.

NETGEAR®

Zone Technology and NETGEAR partner To bring comprehensive networking solutions to the Security & Surveillance industry

Zone Technology is pleased to announce a partnership with NETGEAR®, Inc. (NASDAQGM: NTGR) (www.netgear.com), a global networking company that delivers innovative products to consumers, businesses and service providers.

Edgar Moore (Zone Technology, National Sales Manager) explains, "With IP CCTV moving forward so rapidly and the demands on projects increasing from the integrator level, to be able to supply turnkey solutions to our customers is just another part of our overall service strategy. NETGEAR strongly complements our growing range, and provides us the flexibility to supply end-to-end solutions on small and large projects, plus assist in the education for those installers making the move into IP technologies. The NETGEAR level of technical support and range of product is a natural fit within our catalogue."

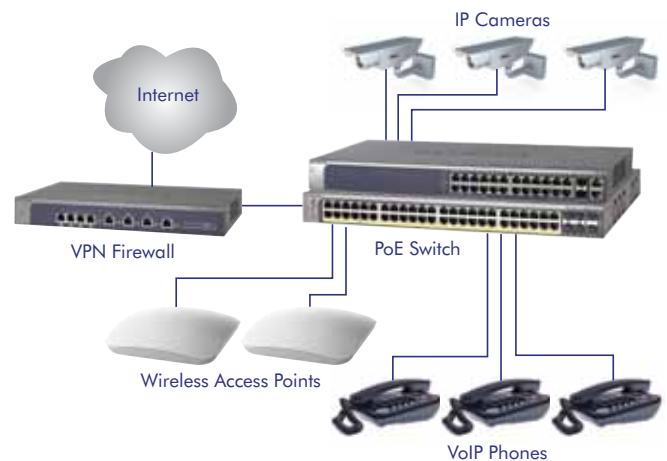
"Zone Technology is recognized as a kiwi owned company focused on best customer service and delivering a broad range of products in Access Control, Security and Surveillance. I look forward to supporting Zone Technology and their partners in delivering solutions in IP Surveillance and converged network solutions." said Kent Dapiere, New Zealand Territory Manager for NETGEAR. "Today more than ever before, businesses want to 'do more with less' and there is a growing need for converged networks where all computers and existing IT devices operate on the same network as IP Surveillance and Security devices. This is driving the need for reliable, affordable, and simple network solutions in business of all sizes."

Zone Technology will be providing NETGEAR switching, storage, security, and wireless products to their partners,

Power-over-Ethernet (PoE) is a revolutionary technology that is quickly being adopted by devices such as VoIP phones, IP video surveillance, and wireless access points. PoE supplies not only data but also power through that same Ethernet cable, allowing for easier deployment of devices and greatly reducing electrical wiring requirements.

Key PoE Benefits:

- Simplified, faster, and lower cost installations
- Flexible and scalable device deployment
- Centralized power management
- Increased reliability
- Improved safety



with particular focus on NETGEAR's comprehensive line of switching. NETGEAR provides reliable, affordable networking switches with or without PoE from high-performing wire-speed Layer 3 managed switches to entry-level managed Smart Switches to plug-and-play unmanaged switches for SMB and the Home.

More about the solutions

NETGEAR's ProSAFE switches are cost-effective solutions for Small and Medium businesses with an essential set of network features and easy-to-use web-based management.

All NETGEAR switches are standards based, fully-compatible with existing 10/100/1000 network infrastructure and



About NETGEAR, Inc.

NETGEAR (NASDAQGM: NTGR) is a global networking company that delivers innovative products to consumers, businesses and service providers. For consumers, the company makes high performance, dependable and easy to use home networking, storage and digital media products to connect people with the Internet and their content and devices. For businesses, NETGEAR provides networking, storage and security solutions without the cost and complexity of big IT. The company also supplies top service providers with retail proven, whole home solutions for their customers. NETGEAR products are built on a variety of proven technologies such as wireless, Ethernet and Powerline, with a focus on reliability and ease-of-use. NETGEAR products are sold in approximately 35,000 retail locations around the globe, and through approximately 41,000 value-added resellers. The company's headquarters are in San Jose, Calif., with additional offices in over 25 countries. NETGEAR is an ENERGY STAR® partner. More information is available at www.NETGEAR.com or by calling (408) 907-8000. Connect with NETGEAR at twitter.com/NETGEAR and www.facebook.com/NETGEAR.

NETGEAR has been a worldwide provider of technologically advanced, branded networking products since 1996. Our mission is to be the preferred customer-driven provider of innovative networking solutions for small businesses and homes. Efficiency, Innovation, Presence, Quality.

easy to use and install, and NETGEAR provides an industry leading warranty with all Smart and Managed switches including a true lifetime warranty.

Unmanaged Switches are plug-and-play switches for businesses in need of instant connectivity with no management required.

Plus Switches empower small businesses with the capabilities to monitor and configure their network beyond simple connectivity at a very affordable cost, making them ideal upgrades from the unmanaged switches.

Smart Switches are cost-effective solution for Small and Medium businesses with essential set of network features and easy-to-use web-based management. Power over Ethernet (PoE) and Stacking versions are also available.

Fully Managed Switches are intelligent solutions with integrated security, high availability, delivery optimization and enhanced manageability, designed for enterprise and campus networks.

NETGEAR ProSafe high-end managed switches offer a secure, future-proof networking infrastructure. End-users, critical services, servers and storage seamlessly connect across highly flexible core, distribution and access layers. NETGEAR Managed Infrastructure makes the most of state-of-the-art technologies



including Virtual Chassis Stacking and Distributed Link Aggregations that work in concert to create a reliable, simple and affordable Campus LAN solution.

NETGEAR offer two unique storage platforms, both ReadyNAS and ReadyDATA are unified storage for the business network, however each has a unique set of features and flexibility.

ReadyNAS delivers an advanced and easy-to use solution for centralizing, securing and controlling access to your digital assets. More than just unified (NAS and SAN) storage for business, each ReadyNAS includes innovative technologies such as unlimited snapshots, thin provisioning and cloud-managed replication.

The ReadyNAS 100 Series offers an easy way to centralize, access and share your digital world. Each ReadyNAS features unprecedented protection of your files, the ability to manage stored data from any web browser and a library of add-ons that do more than you ever thought possible.

The ReadyNAS 300 Series is designed to service between 5-25 simultaneous users, the ReadyNAS 300 is an ideal desktop storage solution for small offices and small to medium surveillance deployments.

ReadyNAS 500 Series services between 25-250 simultaneous users, the ReadyNAS 500 is an ideal desktop storage solution for a small or medium sized businesses and medium to larger surveillance deployments.

ReadyDATA is a tier 1 storage product without the cost and complexity of traditional enterprise offerings. ReadyDATA scales to 180TB and includes

advanced features such as de-duplication, thin provisioning, replication and unlimited snapshots, with support for SATA, SAS and SSD disk drives.

NETGEAR markets a diverse choice of home wireless Ethernet bridges, wall-plugged wireless range extenders, business wireless access points, and business Power over Ethernet access points.

Wireless Management Systems and Wireless Controllers can be deployed for reliable and simple networks requiring density, such as schools, hospitals, cafés, businesses, and warehousing.

About Zone Technology:

Zone Technology Limited is purely focused on technology wholesale, 100% kiwi owned & 110% committed. We supply the latest electronic technology to the security installation trade; we strive to provide unparalleled support and information to the industry. We work closely with sales professionals, specifiers and consultants assisting in the design of the ultimate solution to meet your customer needs & expectations.

Zone Technology Limited is NZ 100% owned, we have many years of expertise within the security & fire industry. Our staff have worked on some of the country's largest projects and are very experienced within the field.

We are specialists in Access Control, Closed Circuit Television (CCTV), Intercom Systems, Biometric, IP Security Solutions and Intruder Alarm equipment. Many hours are spent evaluating local & international products to ensure we provide superior equipment performance, providing you and the end user with exceptional value for money and innovative systems. All backed up in conjunction with our local service.

For more information about Netgear please contact Zone Technology on:

Auckland: (09) 415 1500

Wellington: (04) 803 3110

Christchurch: (03) 365 1050

Email: sales@zonetechnology.co.nz

Website: www.zonetechnology.co.nz

ZoneTechnology
Your Security Supply Partner

HID Global Safeguards New Terminal at Nanchang Changbei International Airport in China

As one of the busiest airports in China, Nanchang Changbei International Airport manages over 3.3 million passengers and 34,000 flights per year. In 2010, Changbei International Airport began an expansion project that included a new terminal and a second runway. With a total investment of RMB2.5 billion (US\$393 million), the project objective was to accommodate up to 12 million passengers annually by 2020.

Challenges

Since its completion, the Changbei Airport has become the aviation hub in the Jiangxi Province. With the rapid economic growth in the region coupled with increasing passenger and cargo volume, it was necessary to impose higher standards in security and safety for airport personnel. Due to the high volume of airport passengers and the sophisticated organizational structure of airport staff,

the security system needed to provide strict access control level settings that limit entry to key zones and restricted areas to authorized employees only.

The airport had also introduced a safety management system to address these issues and enhance overall operational security. As part of the safety management initiative, the requirements for the access control system included:





Products and Technologies

- ◆ VertX® V1000 Network Controller
- ◆ VertX® V100 Door/Reader Interface
- ◆ iCLASS® R10 Contactless Smart Card Reader
- ◆ iCLASS® 2000 Contactless Smart Card

1. Role-based access level settings to control staff access at key entry points and restricted areas by limiting entry time based on job function.
2. Central management through a central network platform that connects the control station and affiliated subsystems, enabling real-time monitoring and data management.
3. A data management system that automatically stores entry records and card access information and generates reports for analysis.
4. Seamless system integration, where the access control system works with alarm, fire and safety systems as well as CCTV.

Solutions

HID Global's VertX® networked access controllers and iCLASS® readers and credentials were deployed at the new Terminal 2 of Changbei Airport. The iCLASS readers at the gates and entry points are connected with the VertX V1000 controller to read cardholders information, while V1000 controllers transfer all data to the host computer via TCP/IP for data management. The access control system addresses the airports' need to establish access control settings that restrict entry to specific areas based on the time of day; limit access to critical zones to authorized personnel only; and define staff access control levels according to job titles.

HID Global's access control controllers and readers are installed in six areas, including boarding gates, internal passageways, Extra-Low Voltage (ELV) system areas, equipment rooms, offices and aerodrome. To further enhance safety and prevent unauthorized access using cloned cards, old employee photo ID badges have been replaced with photo ID iCLASS cards, and all employees are required to present their access cards to the iCLASS reader at entry points for identity verification. The system collects all cardholder information and entry records in real-time, including entry times, location, name and the employee's department for real-time monitoring and report generation.

Critical zones such as the ELV system area are restricted to maintenance staff and engineers since it houses all communication networks (the fire and safety system, integrated cable system and CCTV system). When employees present

their ID cards to the iCLASS card readers at the entrance, the system verifies their identities to prevent potential threats caused by unauthorized, external visitors.

Results

Changbei airport found that HID Global's access control solution is easy to operate and maintain and has a low failure rate. The airport security has been significantly enhanced with multi-layered access level settings and the iCLASS® reader's data encryption technology, both of which have deterred card cloning. The versatile, open architecture VertX networked access controllers are interoperable with any management software, enabling additional deployments such as alarm configuration and simple firmware upgrades for future system expansion.



For more information on HID's products and services within New Zealand, please contact Stephen Blakey on 09 537 0279 or 0210 824 6096 email: sblakey@hidglobal.com.

Attacks of taxi drivers still happening

By Steve Hart

It's been more than a year since the law was changed to force taxi drivers in most parts of the country to install cab cameras. But according to official statistics, drivers don't appear to have benefited from their investment.

Tim Reddish, Executive Director of the New Zealand Taxi Federation, was instrumental in getting the Land Transport Act changed to include security cameras in cabs, but says his organization does not keep data on attacks on taxi drivers.

However, according to a New Zealand Transport Agency (NZTA) press release, attacks on drivers totalled 677 between 2000 and February 2010 – an average of 67 a year. This data was used to support the push to put cameras in taxis.

But according to Statistics New Zealand, any benefit drivers enjoyed has been short lived.

To look at the past five years, there were 80 attacks on drivers in 2007-8; 80 in 2008-9; 100 in 2009-10; 68 in 2010-11 and 81 in 2011-12.

An Auckland taxi driver, who preferred not to be named, says little has changed for drivers, particularly for those who work at night.

"People know the camera is there but they don't care – they are too drunk to

care," says the driver. "Yes, I feel safer knowing the camera is on, and sure they will be filmed, but it doesn't always stop an attack, a runaway or a robbery.

Do I feel safer...not much. Only that any attackers might be caught if I'm left for dead. I don't enjoy driving at night."

"Might" is the operative word here, as the table shows. Despite police having video of crimes against drivers the 'resolved' rate is chequered.

Prior to the legislation coming in, NZTA had quoted stats from abroad that appeared to show that fitting a security camera would reduce attacks on drivers by 70 per cent. But the stats don't bear this out.

It was the 2008 murder of 39-year-old Afghan refugee Abdulrahman Ikhtari, in Christchurch, that helped Reddish put pressure on the government to change the law.

He says: "After the murder in Christchurch I went to the government and said 'you've got to do something and the only way it will happen is if you make it compulsory'.

I said that if it was left up to the taxi drivers they wouldn't fit cameras – I was told to go away."

Reddish got his way soon after Auckland taxi driver Hiren Mohini was stabbed to death over a \$20 fare in February 2010.

A quick Google search for attacks on taxi drivers by passengers throws up plenty of results, among them:

- Assault by fare dodger in Rotorua – January 2012
- Attack on a female driver by a man in Dunedin – February 2012
- Jaw broken during assault in Hastings - April 2012
- Robbed and cut behind the ear with scissors in Palmerston North – August 2012
- Serious assault by four men in Tauranga – January 2013

"After the second murder the then Transport Minister Steven Joyce rang me and asked what should be done," he says.

The law was changed so taxi drivers in most areas of the country had to fit a \$1000 camera and secure recording unit in their cabs by August 2011.

"Taxi drivers in small towns with less than 10 cabs don't need to fit them, drivers there got a bit worried about the cost and said they would know all the people they picked up," says Reddish.

"I thought that was a load of rubbish because you don't know the guy who is going to stab you."

Reddish, apparently unaware of Statistics New Zealand, says it is hard to quantify how valuable the cameras have been.

"All we have is anecdotal evidence, but I am aware where there have been assaults on drivers and the footage handed to police, people identified and prosecuted," he says.

In a strange twist, cab cameras are also being used against taxi drivers. According to an Otago Daily Times report in October last year, one driver in Dunedin spotted a rival overloading his taxi with passengers. He tipped off the police who used the footage recorded by the offending driver to fine him.

The New Zealand Taxi Federation questioned the protocol of video footage recorded by drivers being used against them.

Reddish says: "The federation took this all the way to the NZTA and the police, and it has been agreed now that footage recorded by a driver is only to be used to identify passengers who have committed a crime. That incident in Dunedin was a tit-for-tat issue between rivals firms."

- Phone calls to various taxi firms asking for comments on cab cameras were not returned at print time.

Source / Statistics NZ	Recorded 2007-8	Resolved	Recorded 2008-9	Resolved	Recorded 2009-10	Resolved	Recorded 2010-11	Resolved	Recorded 2011-12 Cab cameras introduced	Resolved
Common assault fire arm (crimes act)	1	1	0	0	0	0	0	0	0	0
Common assault other weapon (crimes act)	1	1	1	0	3	2	2	2	1	1
Common assault manual (crimes act)	29	15	30	24	27	20	22	13	22	13
Common assault stabbing/cutting	0	0	0	0	3	3	1	1	1	1
Common assault other weapon	7	4	5	3	3	3	1	0	8	7
Common assault manually	40	24	44	25	63	36	42	31	49	29
Common assault stabbing/cutting	2	1	0	0	1	0	0	0	0	0
Total	80	46	80	52	100	64	68	47	81	51

fire door holding electromagnets

Standard, floor mounted, wall to door distance 114mm



FDH40S

unbreakable universal mounting

- Low power consumption - low operating temperature
 - One product suits floor and wall mounting
 - Universal armature - offsets to 55° to suit doors opening past 90° • Wall mount extensions available
 - 12 VDC models and 24 VDC models • Push off button with no residual magnetism • Oversize armature for easy alignment • Emergency release button
 - Electroless nickel plated armature and electromagnet
 - Stainless fastenings • Full local support and back up
- 10 YEAR GUARANTEE***

Designed, tested and produced in New Zealand to AS4178

A) Wall mounted, 126mm extn. tube (overall 202mm)

B) Wall mounted, 156mm extn. tube (overall 232mm)

C) Wall mounted, 355mm extn. tube (overall 431mm)



Flush mounted, wall to door distance from 50mm



Surface mounted, wall to door distance 70mm



FDH40SS

stainless steel surface and flush mounting

This device enhances an outstanding range of unbreakable products which conveniently hold open fire doors. When a smoke/fire alarm is activated the magnet instantly releases the door to the closed position to prevent the spread of smoke and fire. These units feature satin finished stainless steel covers for optimum aesthetic appeal and durability. To allow maximum flexibility the electromagnet is pre-assembled onto a plated steel mounting plate. The installer can utilise one device for surface mounting or for flush mounting.

10 YEAR GUARANTEE*

For expert advice and assistance with **your** security locking needs, trust in Loktronic, call us on **0800 367 565**



BOTH options are packaged in the same box



Brooks Multi-Sensor Alarm For Enhanced Fire Detection

Everyone understands the need for working smoke alarms in domestic properties: they save lives. But what type of smoke alarms you have and where they are located can make a major difference to the level of protection provided.

There are three alarm types to choose from: optical, ionisation and heat alarms. These are individually designed to be very good at picking up one particular kind of fire. Unfortunately, there is more than one type of fire and this is where the problem starts.

Fire can smoulder away for ages, or it can flare up suddenly and violently. Some fires produce a lot of heat very quickly, while others produce little heat but lots of smoke particles in the early stages.

When deciding which alarm type to use, specifiers have tended to go for the 'best guess'. That is, they look at the type of fire most likely to break out in an area and choose the alarm type most applicable.

This is a logical way to approach it but may not fully cover all risks. In a downstairs area covered by a single optical alarm in the hall, for example, the threat might come from a slow smouldering fire from electrics or furnishings – but it also may come from a fast, violent fire out of the kitchen. Here, an optical alarm may take longer to respond.

Thankfully, manufacturers are beginning to understand this problem and respond to it with new products designed to cover multiple fire types and risks. Brooks has launched its new EIB2110 Multi-Sensor Fire Alarm which combines two separate sensing elements – Optical and Heat – in a single alarm. In practice, this means that the use of a Multi-Sensor offers an improved response to all likely fire types – and better early warning.



For an application where a specifier or installer cannot be completely sure of the fire type that could occur, it provides a simple and very effective solution.

Additionally, because two separate sensors are being monitored, the unit offers improved resistance to false alarms. This is further enhanced by a unique dust compensation feature that automatically adjusts for contamination within the sensor whilst still retaining sensitivity to an actual fire.

The new EIB2110 alarm also has Remote Control functionality, which allows it to be controlled using a EIB1529RC Remote Control Switch. In a nutshell, Remote Control technology means that householders can test and hush (i.e. silence) their alarms from a conveniently sited wall mounted switch. This means that they do not have to reach up to the ceiling and manually operate the alarm. The safety benefits, especially for the elderly or infirm, are obvious. What's more, because it's so simple and convenient, people are more likely to test their alarms regularly.

Remote Control has had further implications too. On larger systems, it was hard (and potentially confusing) to identify precisely which alarm had triggered.

Remote Control helps to eliminate this problem by also having a locate function which identifies the triggered alarm, making larger systems and greater coverage even more viable.

For greater flexibility when installing, Brooks has made sure that its new Multi-Sensor is fully compatible with its RadioLINK wireless interconnect technology (which allows multiple alarms to be interconnected with RF signals rather than hard wired), so both technologies can be combined to provide early warning of a fire.

The EIB2110 Multi-Sensor alarm runs on 230V AC mains power, but also features built-in, tamper-proof rechargeable Lithium cells as back-up, so there's no danger of batteries being removed. It features Brooks' own unique Easi-Fit® technology, allowing very quick and simple alarm installation with no separate bases or connectors required.

The new Multi-Sensor alarm can be connected to other EIB2110 Multi-Sensor alarms or standard TL Series alarms. It comes complete with a comprehensive five year guarantee and is approved to AS3786:1993 and AS1603.3:1996.

Over the next few years, expect the Multi-Sensor to set the 'Best Practice' standard for specifiers wishing to provide the fastest warning and best protection.

Brooks Ltd is the exclusive distributor of the Ei Professional range of high quality, mains powered domestic smoke and heat alarms. All Brooks alarms are designed and built in Ireland – and specifically meet all New Zealand and Australian standards and regulations.

For more information please go to www.brooks.co.nz or www.brooks.com.au

What Type of Fire Are You Going to Protect Your Family From?



Not all fires are the same. A fire can be fast flaming or slow smouldering, or somewhere between the two. So how do you know which type of alarm to fit to detect these fires? If you make the wrong choice, are your family going to be protected?

Now the choice is simple - fit a Multi-Sensor Fire Alarm from BROOKS.

The Multi-Sensor has two separate sensors - smoke and heat - and will intelligently monitor both sensors for signs of life. This means that it responds to all types of fire from fast flaming through to slow smouldering and gives you the assurance that you've specified the best protection.

The Ultimate Protection?
Multi-Sensor from
BROOKS



To find out more just give us a call on 0800 220 007



BROOKS New Zealand
Ph: 0800 220 007
BROOKS Australia
Ph: 1300 78 FIRE

Unit 106, "The Zone", 23 Edwin Street, Mt Eden, Auckland 1024
Web: www.brooks.co.nz
4 Pike Street Rydalmere NSW 2116
Web: www.brooks.com.au

Pressure On To Get Pressure Right

Keith Newman discovers, a potential crisis was averted when Christchurch City Council entered into negotiations with the fire industry over plans to reduce its water pressure, and striking an accord other local authorities could learn from

Alarm bells began ringing for the Fire Protection Association (FPA) earlier this year when the Christchurch City Council announced it was planning to drop water pressure to the central business district by more than a third.

This meant sprinkler systems in buildings that survived the earthquakes would no longer be effective if a fire broke out, and those under construction and in the planning stages would need to install lower pressure sprinkler systems or enhance them with pumps.

After the FPA learned of the plan, it asked for an urgent meeting and by the end of February a compromise had been reached, with further research now underway to determine an acceptable pressure to meet both council and fire industry objectives.

Initially the council informed the FPA that it planned to drop water pressure in the CBA from an average of 700kPa to 400kPa.

Christchurch decided in December that it needed to give some surety around water pressure so those involved in the rebuild of the central city could take this into account when designing sprinkler systems.

Ross Aitken, chairman of the FPA's Water Supply sub-group, says, Christchurch City became aware it was

aiming far too low with its pressure drop, meaning a significant number of buildings would need pump sets and other amendments to keep sprinkler systems operating properly.

Inadequate sprinkler supply

Mike Bourke, senior technician in asset and network planning for the Christchurch city environment group, says the council agreed to review its decision. "We decided to go back and get better information and after examining a sample of the sprinkler systems we found 50 percent couldn't be sustained without major modification so we increased the proposed pressure."

"After examining a sample of the sprinkler systems we found 50 percent couldn't be sustained without major modification so we increased the proposed pressure," said Mike Bourke, Christchurch City's Senior Technician

He says the council has a responsibility to adjust the pressure and notify the changes in a way that doesn't make sprinkler systems null and void or create other problems.

The council has raised the bar to 500kPa and may even go higher, depending on the outcome of a review, including individual building assessment by independent consultant Protech Design. "Getting that extra 100kPa was a great relief," says Aitken.

The review will look at achieving a final and reasonable balance between the council's objectives and what is needed for the sprinkler systems to operate optimally. Aitken is hoping that may be in the 560kPa range.

It will determine how many buildings still require pumps to get the right pressure to sprinkler systems. "If it impacts only a small number; 20 buildings for example, we would be comfortable with that but a hundred would not be a runner," says Bourke.

"The reality is people need to be aware that in 5-10 years the pressure in the central Christchurch will be different."

For those buildings that still can't operate optimally once a pressure is agreed, Bourke says the best fix will have to be identified. That may be larger sized connections off the mains, changing backflow preventers with a smaller pressure drop or putting a pump on the fourth floor. Meetings between the industry, builders and the council continue.

Concern in build up areas

Argus Managing Director Jacqui Bensemann told NZ Security late last year of the growing concern from building developers and owners and the fire industry around the significant reduction in water pressure in some of the country's more developed urban areas.

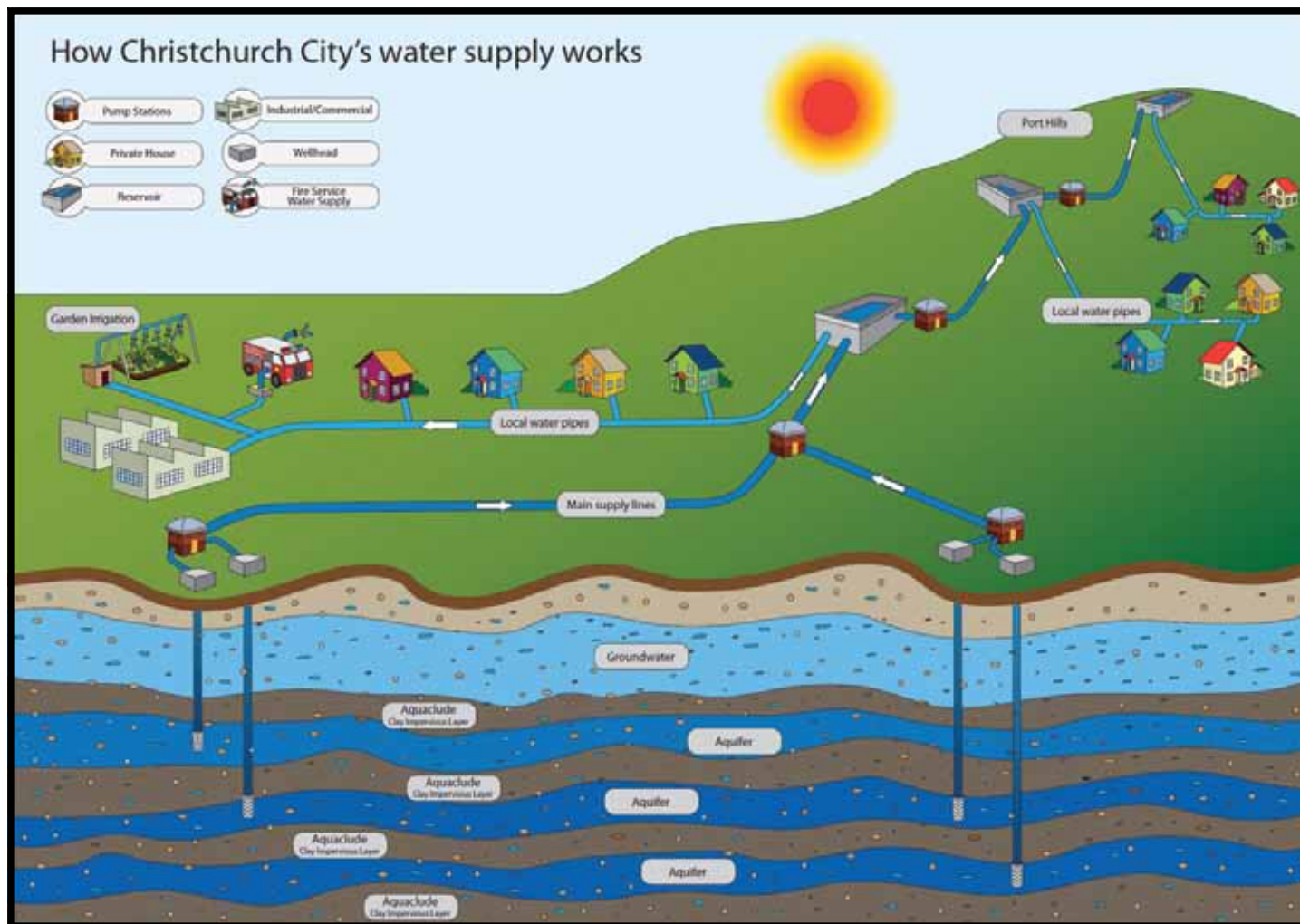
"There have been a number of cases where water pressure in the mains has dropped below the level required for sprinkler system designed 10-15-years ago."

Bensemann hoped water companies and territorial local authorities were listening to industry concerns and prepared to enter into dialogue before making decisions.

While sprinkler head designs were changing all the time there should be no problem as long as the hydraulic calculations around the water pressure were done correctly. However, if sprinkler systems were put at risk by pressure reduction, building owners would have to install pumps "to boost pressure to the



Ross Aitken, chairman of the Fire Protection Association's Water Supply sub-group



mist, deluge or other sprinkler heads they may have attached to their systems.”

Ross Aitken is hopeful other local authorities will follow the example shown by Christchurch, with consultation occurring much earlier in the process as decisions are made to drop water pressure.

Wellington and Waitakere city both engaged with the industry before making changes, although the approach of some councils has raised concerns.

While the Local Government Association (LGA) has “driven the message” that councils should be prepared to communicate with building owners and the FPA well in advance of any planned changes, they are not legally obliged to do so.

Each council must decide on their own action after conducting an impact analysis. “What we are continuing to say, is keep us informed well before any changes take place so they can be managed,” says Aitken.

Earthquakes force rethink

Christchurch was well engaged in its Water Supply Strategy (2009-2039) to extend the life of its water pipes when it was forced to rethink everything after the earthquakes.

In the aftermath it broke down the seven traditional boundaries to 14 smaller, easier to manage areas based on topography in order to restore and repair the water supply but this has also proven invaluable in pressure planning.

Mike Bourke, says the proposed rezoning will enable the council to plan for a more stable pressure across the city with a sample managed pressure zone established in 2014 to help determine costs and benefits. If successful the zones will be implemented over several years.

He recommends other councils, if they’re not already doing so, consider water management zones of 10,000 people as a rule of thumb.

Christchurch is using “fairly sophisticated” computer modelling run by Opus Consulting to calculate the proposed changes by taking into consideration all the inputs from around the city boundaries. The key advantages of lowering the pressure, he says, are less breakage and leakage, longer pipe life and less service interruption.

“There are about 60 primary pumping stations in the system, at least two in each zone so we have some redundancy and one of those zones will have stand by generation.”

Bourke says Christchurch has recovered fairly well from earthquakes, although leakage rates are still fairly high at just above 20 percent across both private and public pipes. “The more pressure you have the more you lose through aging and damaged pipes and leaking taps.”

The fact the city’s reservoirs are placed 70 metres up on the Port Hills means there’s an average reticulation of 700kPa down on the flat with a gravity fall of around 20 metres from one end of the city to the other.

Gravity and fire flow are the main driving factors for pipe size and the design of the reticulation system. “If we didn’t have to provide reticulation to fire hydrants the pipes would be much smaller throughout.”

Bourke, says the smaller zones help with long term planning for the future. “One day Christchurch will need to look at an alternative water supply system and this whole exercise is to reduce what we take out of the ground without impacting on the effectiveness of fire sprinkler systems.”

While local authorities are responsible for deciding on overall water pressure, final responsibility falls to the building owners and sprinkler system designers and installation firms to ensure sprinkler systems remain operative and complaint.

FLIR Systems launches the K-Series handheld thermal imaging cameras for firefighting applications

Thermal imaging cameras are finding their way into more and more industries. As the world leader in thermal imaging cameras, FLIR Systems wants to serve every market that can benefit from the technology of thermal imaging by developing thermal imaging cameras specifically tailored to suit the end use.

Firefighters benefit enormously from thermal imaging cameras. Not only do thermal imaging cameras produce a crisp image in total darkness, they also have the ability to see through smoke, assisting firefighters to find people in smoke-filled rooms, as well as helping them navigate their own way in through smoky environments. They help save the lives of both firefighters and those caught in a fire. Thanks to the ability of thermal imaging cameras to measure temperatures, firefighters can ascertain whether a fire is burning behind a wall or door. Being armed with this knowledge helps them to avoid dangerous backdrafts.

These cameras also allow the user to find hotspots in extinguished fires. Imperceptible to the naked eye, hotspots need attention in order to prevent a fire from reigniting.

Thermal imaging cameras are an instrumental tool in ascertaining whether a structure is safe to re-enter once a fire has been extinguished. Thermal imaging cameras can also be used for other forms of search and rescue missions in which firefighters and emergency services are often involved.

FLIR K-Series

FLIR markets more thermal imaging cameras than any other manufacturer. Thanks to economies of scale FLIR Systems can market the FLIR K-Series at an extremely inexpensive price meaning that every firefighting truck can afford to have one.



The K-series is designed to meet tough operating conditions. It withstands a drop from 2 metres onto a concrete floor, is water resistant to IP67 and fully operational up to +85°C.

Different versions available

Both versions of the FLIR K-Series contain a maintenance-free, uncooled microbolometer detector.

They produce clear and detail-rich images which are presented on a large, bright 4" display to helping firefighters navigate and make quick and informed decisions. Different colour modes make the FLIR K-Series the perfect instrument for every firefighter's job.

The FLIR K50 produces thermal images of 320 x 240 pixels. Users not requiring such high image quality may choose the FLIR K40 which produces thermal images of 240 x 180 pixels.

Easy to use, even with gloves on

An intuitive and simple user interface allows firefighters to focus on the job at hand. The FLIR K-Series is controlled by just three large buttons on top of the unit, making it ideal for a firefighter's gloved hand.

Thermal images can be stored on the FLIR K-Series camera to be later used to produce simple reports of what happened at the scene.

Extended warranty

FLIR Systems is giving a full 2 years of warranty on every FLIR K40 and FLIR K50. The uncooled microbolometer itself is covered by no less than 10 years of warranty. If a problem should occur within this timeframe FLIR Systems will replace the uncooled microbolometer detector free of charge or, depending on the case, even replace the entire thermal imaging camera. In order to benefit from these warranty conditions, the owner of the FLIR thermal imaging camera needs to register the product at the FLIR Systems website. Registration needs to be done within 30 days of purchase. Cameras that are not registered have a one year warranty.

More about FLIR Systems and our products can be found at www.flir.com.

FLIR SYSTEMS Australia Pty Ltd
Toll Free: 1300 729 987
New Zealand: 0800 785 492
Tel: +61 (0)3 9550 2800
Email: info@flir.com.au
www.flir.com



FLIR K-Series: Handheld thermal imaging cameras for firefighting applications

Fire attack Search & rescue

Situational awareness
Hot spot identification

Rely on your FLIR K-Series thermal imaging camera to protect your life and to save the lives of others. The FLIR K-Series thermal imaging cameras have been especially developed for the firefighting industry.



Extremely affordable, every fire truck can invest in one



Robust and reliable



Produce clear and crisp thermal images



Easy to use – even for a firefighter's gloved hand



Produce simple reports

Various colour modes for every situation



* After product registration on www.flir.com

www.flir.com

For more information about the FLIR K-Series or any other FLIR thermal imaging camera please contact:

0800 785 492

Disclaimer: Images for illustrative purposes only. Specifications subject to change without notice.

Market Leaders Connect

ViTech New Zealand joins the Loktronic stable

Late last year, ViTech New Zealand became a division of the well-known electric locking and electronic security solutions entity, Loktronic Limited, this division is being managed by Peter Sheehan, renowned for his innovative design and production of fire protection equipment. Loktronic Limited now offers the full range of ViTech products, in addition to the well-known 10-year guaranteed Loktronic Fire Door Holding Electromagnets, and extensive range of power supplies and large range of electric locking and ancillaries.

The obvious synergies of these two exceptionally creative entities has been combined to bring to the New Zealand market the very best of innovation and enhancement in electronic locking and fire protection equipment. The ViTech range continues to be extended to meet their customers' ongoing needs and diversity of applications.



Peter Calvert Managing Director Loktronic

Loktronic

The range of ViTech products include:

Fire Brigade Alarms (FBA) for the control of fire sprinkler systems and monitoring by the New Zealand Fire Service monitoring centres. These devices feature temperature compensated, accurate pressure transducers that allow easy monitoring of defect, fire and pump start switches and ensure that the fire pump can be directly started by the FBA.

The ViTech Anti-Interference Devices (AID) are specified for the monitoring of various types of sprinkler valves, and can be used to supervise discreet areas of a building. Replacement AID units for upgrading older style monitoring devices are also available. Additionally, IP 65 rated units are also available to comply with the specifications demanded by exterior applications.

A ViTech Battery Tester is an essential piece of gear in every serviceman's kit and allows testing at loads of 5, 15 and 30 Amps so that back up batteries can be certified for compliance, as required by the various New Zealand standards. The battery load testers are well proven within the New Zealand fire industry and their sturdy steel cases mean robust integrity and longevity.

The Safety Technology International (STI) range of protective covers, call points, push buttons and enclosures are all made from rugged, UV stabilised polycarbonate for maximum durability and resistance to vandalism. The covers can be both monitored and provided with shrill Piezo sounders. There is an extensive range of models and typically Loktronic stocks more than a dozen varieties of covers capable of interfacing with almost every model of call point, push button, electrical switch and emergency egress device that is available in New Zealand. Plus, a wide choice of customised colours and labels is available.

A comprehensive range of enclosures and smoke detector damage stoppers is held in stock again with a choice of

polycarbonate, steel and stainless steel. STI products are the default devices for preventing false alarms in areas such as schools, universities, car parks, shopping centres, hospitals, airports, service stations and general public areas. Regardless of requirements or unusual product requests, Loktronic most likely has an ex-stock STI solution for your needs.

All of these superior products from both ViTech and STI are held in stock in substantial quantities and new models are constantly being added to the range. The team at Loktronic Limited are enthusiastic about the comprehensive product range of electronic locking, security solutions, fire protection and monitoring devices now available under one roof and combined with their renowned service and delivery, are looking forward to being of further considerable service to the New Zealand trade marketplace.

Loktronic Limited is an ISO 9001:2008 Registered Firm



Peter Sheehan ViTech New Zealand

ViTECH

fired up protection

ViTECH

LOKTRONIC's expansive product range has just become even wider with these first class **EGRESS** and **FIRE PROTECTION DEVICES** and **PROTECTIVE COVERS**.



STI-1130 Ref. 720-102
Surface mount with horn and spacer
255mm H x 183mm W x 135mm D

STI-13000-NC Ref. 720-090
Flush mount, no horn
200mm H x 135mm W x 65mm D



STI-13510-NN Ref. 720-092
Surface mount, horn and label optional
200mm H x 135mm W x 100mm D

STI-1100 Ref. 720-054
Flush mount with horn
255mm H x 183mm W x 84mm D



STI-6518 Ref. 720-060
Flush mount, no horn
170mm H x 95mm W x 49mm D

STI-13210-NG Ref. 720-094
Surface mount, horn and label optional
200mm H x 135mm W x 100mm D



All **STI 'Stoppers'** are made of tough, UV stabilised polycarbonate. Many can be supplied with or without a 105 dB horn. Other models and sizes available including weather resistant options.

STI-WRP-R-11 Ref. 720-059R

Resettable call point surface mount, DPDT. Positive activation mimics the feel of breaking glass. Visible warning flag confirms activation. Simple key to reset operating element - no broken glass. **IP 67**



STI-RP-WS-11/CN Ref. 720-052W

Resettable call point surface mount and flush, DPDT. Positive activation mimics the feel of breaking glass. Visible warning flag confirms activation. Simple key to reset operating element - no broken glass.

STI-RP-GF-11/CN Ref. 720-051G

Resettable call point surface mount and flush, DPDT. Positive activation mimics the feel of breaking glass. Visible warning flag (pictured) confirms activation. Simple key to reset operating element - no broken glass.



STI-RP-RS-02/CN Ref. 720-058

Resettable call point surface mount and flush, SPDT. Positive activation mimics the feel of breaking glass. Visible warning flag confirms activation. Simple key to reset operating element - no broken glass.

STI-6255 Ref. 720-042

Mini Theft Stopper discourages inappropriate use of equipment. Sounds a powerful 105 dB warning horn when activated. Tough, ABS construction. Reed switch activation for cabinets and display cases or unique clip activation for freestanding equipment. Does not interfere with use of protected fire fighting equipment. Compact design 85mm H x 85mm W x 25mm D.



STI-6720 Ref. 720-047

Break Glass Stopper. Keys under plexiglas. Protects emergency keys from inappropriate use. Keys remain visible. Fast, easy installation. Simple, inexpensive plexiglas. 3 year guarantee against breakage of the ABS housing within normal use.



Battery Tester Ref. 730-100
ViTech rugged steel case 5, 15 and 30 amp battery tester for fire and alarm use.



Fire Brigade Alarm: (Closed/Open) Ref. 720-102
ViTech branded Type X and Type Y models with temperature compensated pressure transducers with digital display showing pressures for defect, fire and pump start.



Anti-Interference Device
Ref. 730-400 series
ViTech AID for sprinkler valve monitoring; fits all ball valve sizes.



ViTech products are designed and produced in New Zealand.

Loktronic

Loktronic Limited Unit 7 19 Edwin Street Mt Eden Auckland
P O Box 8329 Symonds Street Auckland 1150 New Zealand
Ph 64 9 623 3919 Fax 64 9 623 3881 0800 FOR LOK
mail@loktronic.co.nz www.loktronic.co.nz



Coupling Catastrophe Avoided After Local Distributor Warned

Call to tighten up compliance policing

The Auckland supplier of faulty Fire Service Inlet (FSI) couplings sold into the commercial building market last year, has met with a stern response from the industry, after expert testing revealed its Indian imported product could lead to 'catastrophic failure'.

While the company has now been prevented from selling the couplings, the fact they were able to get into the market in the first place has the various fire service and industry safety and standards groups working on a more robust process to pick up non-compliance.

A routine flow test detected a flaw in the couplings late last year, resulting in the NZ Fire Service, asking Canterbury University's Department of Mechanical Engineering to take a look. Under normal water flow tests overloading caused 'a brittle failure' bought on by casting defects and poor composition control and significant 'shrinkage porosity' resulting in a cavity at the point of highest stress.

The couplings made from aluminium with excessive iron, manganese and zinc, rather than the required gunmetal, failed to conform to standard dimensional requirements and did not comply with New Zealand Building Code installation standards.

Risk of death or injury

The NZ Fire Service acting national commander Paul McGill sent a strongly worded letter to the Otahuhu engineering firm which supplied the 'brigade male inlet check valve' warning of the potential for "catastrophic failure".

He said the failure of a unit during fire fighting operations could lead to the loss of fire fighting water, resulting in injury



Close up photo of a sectioned FSI coupling showing a large shrinkage cavity adjacent to the attachment point for the swing check

or death and increased property damage, with the additional risk that people in the vicinity may be injured by flying debris from the unit or a flailing hose.

The Fire Protection Association (FPA) also sent its senior people to warn the company's managing director that he was "flying into serious trouble". Fortunately, says NZ Fire Service Engineering Manager Simon Davis, there do not appear to have been many installations of these "knock off" units which were sold during the early part of 2012.

Although building owners and managers were advised to replace these non-standard units, PSL Sales Director Stuart Hampton, says there's little information about which buildings had installed them and therefore no way to notify specific owners.

PSL which makes compliant couplings at its Auckland factory, urges building owners who may have purchased the devices to double check, as there's a risk that the fire brigade may not be able to connect properly.

He's also concerned that some fittings on ball valves in multi-story buildings were also found to be non-compliant as early as June 2011 but little was done, despite reports to the NZ Fire Service.

PSL is one of two local companies that manufacture aluminium and gun metal couplings and fittings to the local standard.

Police the standard

Martin Simpson, General Manager of Fraser Engineering Group, based in Taita, says the repercussions of the NZ Fire



FSI Coupling which failed in service during a routine flow test

Service being unable to plug into building couplings are “mind boggling”.

And while the discovery of faulty couplings may be an isolated incident, he says it highlights the need to tighten up the policing of the NZS4505 standard.

Simpson, who’s been fighting for many years to prevent the standard being “dumbed down” so cheaper products can be imported from ‘the Third World economy’, believes the industry’s self policing approach is far too lax.

Compliance with the standard used to be compulsory with strict auditing. “NZ Standards would run the whole show but the rules have changed and it’s no longer mandatory; it’s now the manufacturer’s responsibility to ensure they follow the standards.”



Simon Davis, NZ Fire Service Engineering Manager

He’s concerned the NZ Standards body does not appear to have any interest in investigating complaints about people who are known to produce outside the standard, so “the standards have no teeth”.

Simpson says New Zealand has a set standard for instantaneous 70mm couplings. “We’re the only country in the world to use that size. You have to do your homework; the drawings are available as are the standards you need to comply with.”

He insists there should be full compliance across all fittings and couplings that the Fire Service needs to connect to and if building owners and developers don’t adhere “building consents should not be signed off”.

“There are good, reputable people in the fire industry including Wormald and Chubb who have a wealth of experience and history behind them and know the products backwards. Often newcomers imagine they can get product made cheaper in India or China without really understanding the history and the load these products need to bear.”

Simon Davis of the NZ Fire Service agrees the couplings are supposed to be made to a standard but says there’s no way of identifying whether they comply or not as there are no markings on them. While stamping product has been considered, he says, anyone can get a stamp made in China so other options are now being discussed including “more sophisticated infrared markings or ID barcoding.”

SUBSCRIBE NOW

Readers of NZ Security include those working directly and indirectly in the domestic and commercial security industry. From business owners and managers right through to suppliers, installers and front line staff.

Among our readers are IT security experts, surveillance professionals and loss prevention staff.

Our readers take their job seriously and make an active choice to be kept informed and up to date with the industry.

For only \$50.00 plus GST you can ensure that you receive a 1 year subscription (6 issues) by filling out the form below and posting to:

New Zealand Security Magazine
27 West Crescent, Te Puru, 3575
RD5, Thames, New Zealand

or email your contact and postal details to:
craig@newzealandsecurity.co.nz

Mr Mrs Ms _____

Surname _____

Title _____

Company _____

Postal Address _____

Telephone _____

Email _____

Date _____

Signed _____

nzSecurity Magazine
A trusted source of information for industry professionals

Rash Of Fire Outlet Thefts Forces Coupling Rethink

The brazen theft of building fire outlet couplings from at least 400 high profile buildings throughout the North Island has the fire industry on high alert, as it looks at ways to prevent such life threatening criminal activity.

While Police are unable to say exactly how many buildings were hit, how many couplings were stolen or how many arrests have been made to date, NZ Security has determined that local manufacturers were called on to urgently produce at least 800 replacement couplings.

The systematic removal of bronze and brass couplings involved a number of public buildings including hospitals, and much to the embarrassment of the NZ Fire Service, its own national headquarters in Wellington.

“When our principal advisor went to check it out just in case, he was horrified to find both outlets had been stolen. These people were very cheeky,” says NZ Fire Service Engineering Manager Simon Davis.

On becoming aware that two or three areas had been targeted, the NZ Fire Service, the Building Industry Association

and the Fire Protection Association (FPA) sent out warnings to building owners and property managers to check their systems were still intact.

No water at Plaza

Police were first alerted to the problem in July after Hamilton fire fighters turned up to a blaze at the Downtown Plaza only to discover the building coupling they need to attach their hoses to was missing. It was later discovered 30 other systems had been tampered with including the Hamilton City Council and Waikato Hospital.

As well as fire inlets, brass and copper couplings and other parts were stolen from fire sprinkler systems. Thieves had bypassed an alarm system that should have immediately alerted the local fire brigade.

Fire service building couplings are designed to supply additional water during fires and located in sprinkler boxes, typically at the front of buildings; most have a single outlet although larger public buildings can have six to eight.

On pulling together reports from various districts, Police realised there was a trend and quickly put the fittings thefts



on a national watch list. The gunmetal couplings were sold for scrap.

Two people were ultimately arrested and charged in the Auckland district court and it is believed other arrests were subsequently made in other parts of the country.

“It turns out a ring spanner that can take 16mm bolts off or a big stilsons wrench is all you need. Our operational planning officer, operations manager and national risk reduction group are looking very seriously at how to address this,” says Davis.



NZ Fire Service HQ also targeted by fire inlet thieves



70mm coupling

One of the options is to swap the couplings out for aluminium which makes them less valuable to thieves. "Aluminium has come a long way in 30 years, particularly through its use in the yachting industry and dairying. We're also looking at other materials and options for fixing this problem in the future."

A rush on replacements

And he urges building owners and managers to alert their contractors immediately if parts are found missing and to source replacement product from a reputable source, specifically an FPA member to ensure they get product that conform with New Zealand Standards.

Advance notice was given to two local manufacturers Phillips & Smith and Fraser Engineering to gear up their capabilities for a dramatic increase in orders. PSL reported "a gigantic rush" starting in July last year. "We turned around over 300 units in under 14 days to meet urgent demand. That is on-going and to date (mid-March) it has exceeded to 600 units."

Martin Simpson General Manager of Fraser Engineering says people found stealing fire service inlet fittings should face more severe charges than theft, as

it opens the way for a potential disaster with far reaching consequences if there's a fire. "It's like cutting off the water supply to a building".

His company was notified as soon as the NZ Fire Service became aware of the magnitude of the thefts. "We pulled out the stops and notified every foundry in the country because it was such a serious issue. We machined a couple of hundred inlets to ensure we had enough supply to draw on."

Simpson says the theft of bronze fittings has been going on for years and has driven a number of companies to look for cheaper, alternative products offshore.

However, he warns that aluminium and other cheaper options may not last the distance. "Buildings are expected to last for a hundred years and brass will still be there in 200 years but aluminium may not."

Brass Fire Inlets No Different To Other Scrap Metal Thefts

Upgrading the theft of brass fire inlets to a more serious crime like public endangerment would only happen if there was an ongoing, extreme risk to public safety, and would require an Act of Parliament.

Like those in the fire industry, Detective Inspector Rob Duindan of the national criminal investigations unit



Detective Inspector Rob Duindan

at Police National headquarters, believes there's room in the Crimes Act to create a separate offence with more serious consequences.

However, it would have to be an ongoing disruptive situation involving a large number of cases where there was extreme risk to public safety, for example taking parts of a railway line that could cause a train to crash or the recent trend of stealing manhole covers and grates from roads.

Inspector Duindan says there's been no information whether thefts of fire fittings are ongoing or how many arrests have been made. There would need to be specific reports from each Police district to determine what items individuals were charged with stealing. "It would be like dredging through a nightmare."

And he wouldn't be drawn on how organised those thefts were. "All it needs is one or two people going to 20 places a night over several nights and you have a problem; if a dozen or more people are doing it then they are really getting organised."

Inspector Duindan says scrap metal theft is a worldwide phenomenon with

so many targets that it's difficult to break it down into crime types. "As offenders get more into the game they're looking for a wider ranging set of products."

He says trends like the theft of brass fittings tend to dry up pretty quickly once the Police have raised the issues with the National Scrap Metal Recycling Association and alerted them what to look for.

"They advise their members not to accept these items, to note down details including car registrations and to notify the police as soon as possible. We activate that pretty quickly and it usually puts a lid on things."

When Police detect a trend or a public safety issue, he says "we treat it seriously, connect the dots and get onto it quickly to take the sting out of it and try to identify, arrest and prosecute the offenders."

Another action is to create awareness, so institutions are aware of what's going on and do their own risk analysis, looking closely at how vulnerable they are and how they can best secure sought after items.

Niche Bundling Gives PSL an Edge on Bulk Manufacturers

Fire and safety specialist Phillips & Smith has re-invented itself several times over the past hundred years in order to keep pace with market changes, most recently battling to ensure its manufacturing capabilities remain viable in the face of fierce competition from China.

Today the company has an office in Sydney and it exports to 20 countries bringing in around 20 % of its revenue.

It supplements its local manufacture of hose reels, nozzles and couplings through agency relationships with top international equipment and apparel providers.

It's ability to manufacture short runs of key components, bundled with a range of essentials for fire brigades, industrial organisations and the petrochemical industry, has created a niche that even its international competition has difficulty matching.

Phillips & Smith Ltd was established in 1913 as a non-ferrous foundry and engineering workshop producing fittings for the dairy industry. Its transition into the fire and safety sector began in the 1960s when government restrictions on importing fire fighting hardware opened the door for local manufacture.

The company began designing, engineering and manufacturing for the local market and in 2004, after it acquired Pelican Products NZ and Amerex NZ, re-branded as PSL. It expanded to supply a much wider range of fire and safety products for the local and export market, including Asia Pacific, and ultimately South East Asia and the Middle East.

Over the years the company has won itself a niche position in the supply of fire and safety equipment including

uniforms, helmets, helmet communicators, ventilators, torches, extinguishers, smoke alarms, ladders and hoses to fire brigades and oil companies.

Chinese challenge

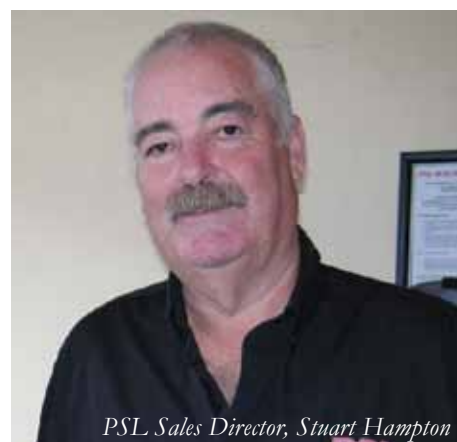
Sales Director and former Managing Director, Stuart Hampton, who's been with the company since the merger and diversification, says exports were a growing opportunity for PSL's locally manufactured fittings until they were undercut by Chinese companies. "We lost quite a lot of business that way."

Life has continued to get tougher, as it has for many local exporters, with the value of the US dollar and the need to source more components from China to keep the cost down. Its competitive edge, however, continues to be its ability to bundle up a shopping list of requirements in a single consignment based on client needs.

"Everyone says go to China but they don't want to make ten of something, they want to fill a container. We have range of products we manufacture to specifications with different threads, spacing and sizes based around international standards requirements."

PSL's machine shop at Span Farm in Glendene employs ten people, operating highly accurate, high speed Mazak Turning Centres and a large heat treatment oven for aluminium alloys, with data logging of heat monitoring to ensure consistency. It has several CNC lathes, for precision machining work, where customised components can be milled and drilled in one operation.

And while innovation is necessary to keep ahead of the market, it does become a problem for PSL each time New Zealand



PSL Sales Director, Stuart Hampton

standards or specifications change or someone has a new idea. "It's hard to justify the cost when you consider the quantities that are used."

In a recent case however it was PSL that came up with the idea, and while it's a slow burner, it will eventually pay off.

After looking at international trends it became aware that couplings being used by the NZ Fire service were not as "hydraulically efficient" as they could be and were in fact restricting the flow in 'lay flat' hoses.

Less friction coupling

Evidence showed that internal couplings gave greater flow and created less friction loss. "We made up samples and tested them to show there were some real advantages, including improving the amount of water a fireman can get through a hose."

The intent of this test was to simply measure, record and compare the pressure loss and flow rates at a standard pump operating pressure of 1050kPa. The NZ Fire Service is gradually being won over.

The first delivery of the new Internal Ferrule (IF) couplings was sent off earlier



PSL Company Owner and Factory Manager Bernard Phillips with a fire service inlet attached to a breeching

in the year and Hampton is convinced that over time all fire regions will convert to the new fittings. A patent is pending.

You might think this innovation would open up huge export potential but in reality it's an orphan technology, simply improving on another proprietary approach decided on 66 years ago when the NZ Fire Service decided on different coupling sizes to the rest of the world.

That decision was made after the tragedy of the Ballantyne's fire in Christchurch in November 1947. "When the brigades from different areas turned out they found their hose fittings didn't match each other. They then bought out a chap from the UK who recommended the British 'instantaneous coupling'."

However, he also suggested increasing the diameter from to 70mm (2 ¾ inch) rather than the standard 64mm coupling because he reckoned you would get more water down the hose, so it became unique to New Zealand," says Hampton.

Local bulk purchases from fire brigades typically occur annually when the new budget is allocated for each brigade. That's when the orders for new couplings come, along with perhaps new uniforms and a portable pump from Napier manufacturer Phoenix Pumps for which PSL is the sole local agent.

Smart use for solid sirens

While the demand for the shrill bursty call outs of public fire sirens is diminishing in New Zealand as pagers become standard for volunteer brigades, PSL has found another use for the technology.

It recently shipped off 23 large sirens to Western Samoa to be mounted on poles around coastal areas where they're being used as part of a tsunami warning system. This follows on from orders from Vietnam and several other countries.

PSL imports the motors and casts, manufactures and marine anodises the sirens at its Auckland factory. Hampton says word got around that the PSL fire sirens had the same decibel reading as a tsunami siren for less than a quarter of the price of some electronic models.

"We know some councils in NZ are paying up to \$22,000 for the electronic ones because they can change the pattern of the sound. That's a bit of a joke when we can manufacture something that produces the sound they need at the right decibel range for around \$5,000."

Sometimes Hampton thinks people are paying through the nose unnecessarily for fancy technology when older systems will still do the job and are possibly more robust. "We've done a few for NZ councils but all some councils see are the electronics."

The reality he says, is most fire products are pretty basic and leave little room for innovation. Creating the new couplings was a different exercise for PSL but the real growth ahead is expected to come from the domestic market.

That includes specialised protective cases, 'intrinsically safe' torches and lighting that's geared for fire safety in major industrial sites, oil plants, airports, harbour boards and anywhere that prohibits any kind of spark or electrical device that could trigger a gas or fuel explosion.

SUBSCRIBE NOW

Readers of NZ Security include those working directly and indirectly in the domestic and commercial security industry. From business owners and managers right through to suppliers, installers and front line staff.

Among our readers are IT security experts, surveillance professionals and loss prevention staff.

Our readers take their job seriously and make an active choice to be kept informed and up to date with the industry.

For only \$50.00 plus GST you can ensure that you receive a 1 year subscription (6 issues) by filling out the form below and posting to:

New Zealand Security Magazine
27 West Crescent, Te Puru, 3575
RD5, Thames, New Zealand

or email your contact and postal details to:

craig@newzealandsecurity.co.nz

Mr Mrs Ms _____

Surname _____

Title _____

Company _____

Postal Address _____

Telephone _____

Email _____

Date _____

Signed _____

nzSecurity Magazine

A trusted source of information for industry professionals

CLOUD SERVICE ANDROMEDA

EYE-02



JABLOCOM

- Access, Control, Configure and see live your Jablocom devices from the web and phone
- Free connection
- Free Cloud Storage for 3 hours for EYE-02 Camera and CU-07 Vehicle Tracker
- EYE-02 GSM Security Monitoring Camera complete remote security system in one housing
- CU-07 GPS Tracker Plug and play device with on-line map tracking, only data charges apply

www.pacificgsm.co.nz sales@pacificgsm.co.nz

09 948 4762

Jablotron 100

Revolutionary Alarm System
Easy – Smart – Flexible



Bus and wireless system combination
Multi-use system for all your needs
Free access from anywhere

Come to our stand #31 at NZ Security Conference & Exhibition 22-23 August 2012 to see Jablotron's great new JA-100 Alarm System

www.pacificgsm.co.nz sales@pacificgsm.co.nz

09 948 4762

Armed And Ready



Over the past 30 years, Optex have cemented their reputation on providing the most reliable indoor intrusion detection devices through their patented Quad Zone Logic technology.

You can rely on Optex. Available now from your local Hillsec branch.



For all product information visit
www.hillsec.co.nz

Auckland: (09) 415 1500 • Fax: (09) 415 1501

Wellington: (04) 803 3110

Christchurch: (03) 365 1050

Email: sales@zonetechnology.co.nz

www.zonetechnology.co.nz



FUJINON

GSP

DIGITAL VIDEO SECURITY SYSTEMS



ASSA ABLOY

The definitive LONG RANGE SOLUTION that opens it all!



Connects to an Access Control System just like a prox / smart card Reader!

Just one product and with the touch of a button, the i-Key 4 is the smart and simple way to control access to your secure areas such as boom gates, rising barriers, roller shutters and doors. Cutting edge technology allows the i-Key 4 to enter multiple facilities with just one key. Use the i-Key 4 and your secure access couldn't be simpler!

Features

- Multiple frequencies available
- Easily Interfaced
- Long Range
- 4 Wiegand Outputs
- Flexible
- High Security



ikey4 supports technologies such as, HID, Indala, Farpointe Data/Keri proximity, along with iClass, Mifare, Tecom/GE smartcard technologies.

ISCS New Zealand Ltd

5 Arawa Street,
Grafton, Auckland
Ph: 09 3666 150
Fax: 09 3666 151
Email: salesnz@iscs.co.nz • Web: www.iscs.co.nz



Are You Looking For A Smarter Card Solution?

ISCS is pleased to introduce the iCLASS GOLD CLASS Program, offering users the highest level of card-to – reader security available today!

Gold Class

When using iCLASS contactless smart card technology, The GOLD CLASS program offers users the choice of their own secure 26,33,34,37 or 38 bit format. This format includes a company ID Code that is unique to each user. For added security ISCS tracks all card numbers to ensure that no duplications occur.

Security is further enhanced through the use of an encrypted authentication (security) key. This authenticates the card and reader.



GOLD CLASS is the security professionals first choice for ultimate security of your facilities.

ISCS New Zealand Ltd

5 Arawa Street,
Grafton, Auckland
Ph: 09 3666 150
Fax: 09 3666 151
Email: salesnz@iscs.co.nz • Web: www.iscs.co.nz



Aurine Kit



The A4-M1AM-E8C kit has an aluminium die-cast vandal resistant panel with colour CCD Camera, wall mountable with hood. The Slim Indoor Phone is 29.4mm in depth with a 7" colour Touch Screen display.

The kit is designed for fast installation:
plug and play

Key Features:

7" colour Touch Screen display,
4-wire connection, hands free talking,
door releasing and video monitoring,
multiple configurations (1-1/2-5), wall
mounting installation, Built in LED for light
compensation at night, waterproof and
dustproof design, plug pack included, dry
contact for lock output



ISCS New Zealand Ltd
Ph: 09 3666 150 • Fax: 09 3666 151
Email: salesnz@iscs.co.nz • Web: www.iscs.co.nz



Distributors
of URMET

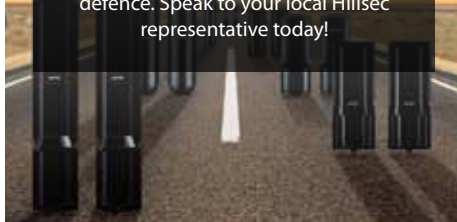
SECURE THE PERIMETER!

In need of the best perimeter protection?

Hillsec now have industry leading, robust, ever reliable and easy-to-install PE (photoelectric) beams from Optex – the world leader in intrusion detection.

Optex's new range of wireless, battery powered PE beams will save you time and money, as there is no need to dig long trenches and run lengthy cables. It is 100% wireless.

No trenching. No wiring. No hassles. Make Optex your first line of defence. Speak to your local Hillsec representative today!



For all product information visit
www.hillsec.co.nz

Extend Your Vision: 360° Surveillance



Panasonic have released an indoor (WV-SF438) and an outdoor (WV-SW458) 360° camera range that gives you PTZ operation with no mechanical movement required! Featuring many operating modes and Full HD 1080p high quality video, you will find you have every corner covered.

i-PRO
SmartHD



Wide range of image modes



For all product information visit
www.hillsec.co.nz

NEW RAYTEC Network Illuminators



A NEW CONCEPT IN CCTV LIGHTING!

Available in Infra-Red and White-Light LED, VARIO IP provides network management of your CCTV lighting. Commissioning, operation, and maintenance of your lighting scheme is simple and easy.

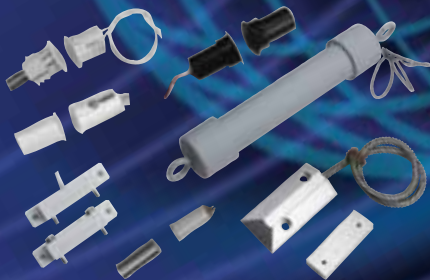
VARIO IP can be accessed and controlled via an integrated web interface at anytime from anywhere on the network.

Users have full control over their lighting at all times, to alter settings and instantly respond to operational changes or live events in real time, for the best CCTV images and safety 24/7. An API is also available for easy integration with VMS systems.

Now available at your local Hillsec branch.



For all product information visit
www.hillsec.co.nz



total reed switch solutions from Flair

From closed loop, open loop to SPDT, we've got the lot.

Talk to Loktronic now about our comprehensive range of Flair Reed Switches. Not only for "standard" use, but also for specialty applications, from taught-wire types to waterguards, from collared to stubbies, from overhead door with offset to floor contacts, from latchguard to sub-miniature, from push-fit to surface mount.

Flair reeds from Loktronic:
an unbeatable combination.

Loktronic



Loktronic Limited Unit 7 19 Edwin Street Mt Eden
Auckland P O Box 8329 Symonds Street Auckland
1150 New Zealand Ph 64 9 623 3919 Fax 64 9 623 3881
0800 FOR LOK www.loktronic.co.nz

20237_FL



Power supply cabinets

- Mounts for our 5 most popular models of power supplies; 6 key-hole anchor points for easier mounting
- Lift off hinged doors for added convenience
- Louvre ventilation on doors
- Roller ball reed switch provides anti-tamper to front and rear of cabinet
- 6 x 25mm knockouts, 2 each sides and bottom
- Medium cabinet holds 5 x 7 A/h batteries
- Large cabinet holds 14 x 7 A/h batteries
- Cam lock for security
- Front lip to retain batteries and for additional strength
- Removable shelf and removable back plate to facilitate easy bench mounting of equipment
- Lip return on door for greater rigidity
- Durable powder coated white finish
- Heavy gauge 1.2mm steel

Designed, tested and
produced in New Zealand.



Loktronic



Loktronic Limited Unit 7 19 Edwin Street Mt Eden
Auckland P O Box 8329 Symonds Street Auckland
1150 New Zealand Ph 64 9 623 3919 Fax 64 9 623 3881
0800 FOR LOK www.loktronic.co.nz

20238_PSC

Loktronic Power distribution module



The Power Distribution Module allows the removal of power to a group of doors on a fire alarm activation whilst conforming to regulations. Provision for individual fused power supply to each door lock.

Red and black uncommitted terminals to facilitate distribution from power supply or battery, to load.

Comprises

- Fire Drop Relay DPDT 12 VDC • 6 x 2 Amp FU 500
- Terminals with LED Indication • 2 x Red Terminals
- 2 x Black Terminals • 1 x DIN Rail
- All terminals are labelled.

Designed, tested and
produced in New Zealand.



Loktronic



Loktronic Limited Unit 7 19 Edwin Street Mt Eden
Auckland P O Box 8329 Symonds Street Auckland
1150 New Zealand Ph 64 9 623 3919 Fax 64 9 623 3881
0800 FOR LOK www.loktronic.co.nz

20239_PDM

Loktronic

SECURITY • TECHNOLOGY • RELIABILITY

your electromagnetic locking specialist!

**Underpinned by
22 year's
experience
and service with
integrity.**

Standard features include:

- Field-selectable 12 & 24 VDC options
- 300/550/750 kg holding force options
- Slimline styling
- Instant release
- Stainless steel fitting hardware
- Chromed through hardened, polished stainless sex nut
- Full protection against transients.

Options include:

- Door Position Switch
- End-to-end Magnetic Bond Sensor
- Header extension angle bracket
- Custom full width housings
- Z/L brackets for inward opening doors
- Frameless glass door brackets
- Powder coated or anodised colours
- Stainless indoor, outdoor and gate locks

For expert advice and assistance with **your** security locking needs, trust in Loktronic, call us on **0800 367 565**

10
YEAR
GUARANTEE



Loktronic

Loktronic Limited Unit 7 19 Edwin Street Mt Eden Auckland
P O Box 8329 Symonds Street Auckland 1150 New Zealand
Ph 64 9 623 3919 Fax 64 9 623 3881 0800 FOR LOK
mail@loktronic.co.nz www.loktronic.co.nz



Your **guaranteed** supplier of **Lockwood** and **Trimec** products. **PLUS!** Large stock and numerous models available.