THORBURN
TECHNOLOGY SOLUTIONS

TECHNOLOGY SOLUTIONS FOR MAXIMUM SECURITY

Integrated technology solutions for holistic protection.

THE CHALLENGE

Does your organisation utilise security devices optimally? Adequate protection means access control or CCTV monitoring that:

- Mitigate risk
- Support investigations
- Support health and safety
- Include early detection
- Manage compliance with legislation

In a world where the criminal network is ever evolving, technology and the ability to integrate multiple state-of-the-art security systems and applications provide the most comprehensive protection solution available.

While individual security devices, such as access control or CCTV monitoring, work well for their intended purpose, when it comes to large facilities that house valuable assets it is best to employ a holistic security system comprising multiple electronic and safety security devices to amplify their functionality.

The interoperability of various technologies can automate and enhance the user experience. Data that is generated across a sophisticated security ecosystem can help businesses to make strategic decisions.

THE SOLUTION

After conducting a thorough risk assessment, Thorburn Security Solutions merges the latest cutting-edge electronics and safety security devices into a tailored, integrated security system that draws on the strengths of each element to create an optimal, holistic security matrix.

These integrations create connections that work in tandem between systems and applications for comprehensive monitoring and response.

Integration

Thorburn's physical security solutions provide advanced security services across South Africa to protect our customers' buildings, people and assets. The solutions are easily managed through a virtual memory system (VMS) that includes access control, video surveillance, event monitoring and an intelligent systems dashboard to dispatch and coordinate real time support 24/7/365 through our control and command centres.

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Thorburn will conduct a thorough risk assessment of your property and provide a tailored end-to-end solution.

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Detect, deter and delay

PERIMETER SOLUTIONS

Clearview

Clearview fencing is well known as an enemy of climbing (anti-climb) and is made of durable anti-cut mesh that has the added advantage of allowing a clear view of the property for easy surveillance by security cameras and teams.

- Fence can not be scaled (climbed over).
- Fence features horizontal and vertical strands making it difficult to cut or break.
- Installation is fairly simple and quick.
- Fence is hot-dipped and galvanized to protect from rust.

Gates and automation

As part of a broader security plan, access control booms or turnstile situated at the perimeter of a facility, serve to stop intruders and verify people entering the premises. These can be coupled with a control system that logs and stores all entry and exit information. Additionally, these systems can be seamlesly integrated with payroll and used to verify hours worked by individual staff members.

Including perimeter and access control technology in an integrated security management system provides a powerful real-time graphical interface for monitoring and control of the entire fence and links to a variety of parallel sub-systems, such as CCTV, access control, intruder detection, biometrics, mobile duress, lighting, intercoms and much more. This provides security management personnel with a single user interface to control security events, and monitor, verify and escalate in accordance with the organisation's security policy.

Electrical fencing

When a physical barrier, such as a wall or a fence, is combined with an electric fence it will deter attempts to infiltrate the protected perimeter. The electric fence delivers a high voltage shock that is non-lethal to the potential intruder. The electric fence energizer has a detecting feature that triggers an alarm when the perimeter has been tampered with or breached. By using an electric fence, the attempted break-in of the protected area can be delayed giving additional time for a reaction team to respond to the breach.

- Full-height freestanding electrical fence, zoned and installed with ample backup power to ensure continued operation during loadshedding.
- Energizers located on the perimeter to ensure that there is no voltage loss to these points.
- Fully compliant SANS installation.
- Fifty metre zones ensuring response is controlled to a certain point .
- Detects every attempt at intrusion.
- Deters by means of an electrical shock applied to any person or animal that touches the fence line.

ACCESS CONTROL

Full access control solution, time and attendance, visitor management solution, radio frequency identification, facial and biometrics, artificial intelligence.

Thorburn's Access Control Solution integrates access points with a control system that logs and stores all entry and exit information locally or via the cloud. These systems can also integrate seamlessly with payroll and can be used to verify hours worked by individual staff members. Radio frequency identification (RFID), a wireless technology, can also be linked to track or match items and individuals.

- Accurate record-keeping of all staff, contractors and visitors who enter or exit the site.
- Reduces labour fraud as a result of false timekeeping records.
- Enhances perimeter control.
- Measure and manage occupancy levels with intelligent access control systems.

Touch-free temperature screening solutions use integrated facial recognition technology that controls the opening and closing of doors, gates and booms through temperature screening solutions that can be flexibly applied in multiple scenarios.

The terminals register a person's most unique physical facial features and expressions. It then uses these as digital identifiers that are interpreted through software to identify persons on a registered database or to verify authenticity of a claimed identity. The terminal adapts to a deep-learning algorithm that helps to recognise registered faces faster and more accurately and supports multiple authentication modes, e.g. face pictures, card images and fingerprints.

- Cost effective
- Hygienically user-friendly
- Integrates with most existing access control systems
- Network solutions that allow a central uploading of facial templates
- Reliable verification technology and high reading rate
- Reading range of 0,3 to 1 metre

CCTV

Thermal solutions, automatic numberplate detection, artificial intelligence (AI)

CCTV (closed-circuit television) allows live remote monitoring of specified areas to detect intruders before they breach the perimeter, allowing officers to intervene. Thermal cameras installed at strategic points on the perimeter not only monitor the area but can act as a deterrent to criminals. Cameras and monitors can be linked to recording devices with storage capacity that is defined by the customer (days to record). Recorded footage of an incident can be reviewed to adjust a security plan or be used as evidence in court cases.

Thorburn uses thermal network bullet cameras, equipped with built-in graphics processing units, to support artificial intelligence algorithm analyses of human behaviour. The cameras detect and raise a real-time alarm to potential criminal behaviour, or other causes for concern such as fire. They can also detect number plates and raise an alarm for plates that are not registered on the system. The pre-alarm system helps to detect unexpected events immediately and protects a business from loss of property.

- 100% perimeter coverage with cameras and smart analytics
- Combine firedetection capabilities on industrial perimeters
- Detect vagrants and criminals well in advance
- Easy monitoring of large perimeters
- 24/7/365 live monitoring backed by recording and archiving

INTELLIGENCE

National Control and Command Centre

By centralising operations from our national control and command centre (NCC) in Midrand, Thorburn can provide your business with an on-site and off-site artificial intelligence (AI) monitoring platform to automate 24/7/365 remote surveillance of your premises.

This smart solution can be tailored to fit the needs of your business environment without comprising on quality. It provides the following benefits:

- Remote monitoring solutions that are integrated with existing health and safety technology, as well as physical protection that maximises security
- Increased business intelligence through advanced security data analyses and reporting
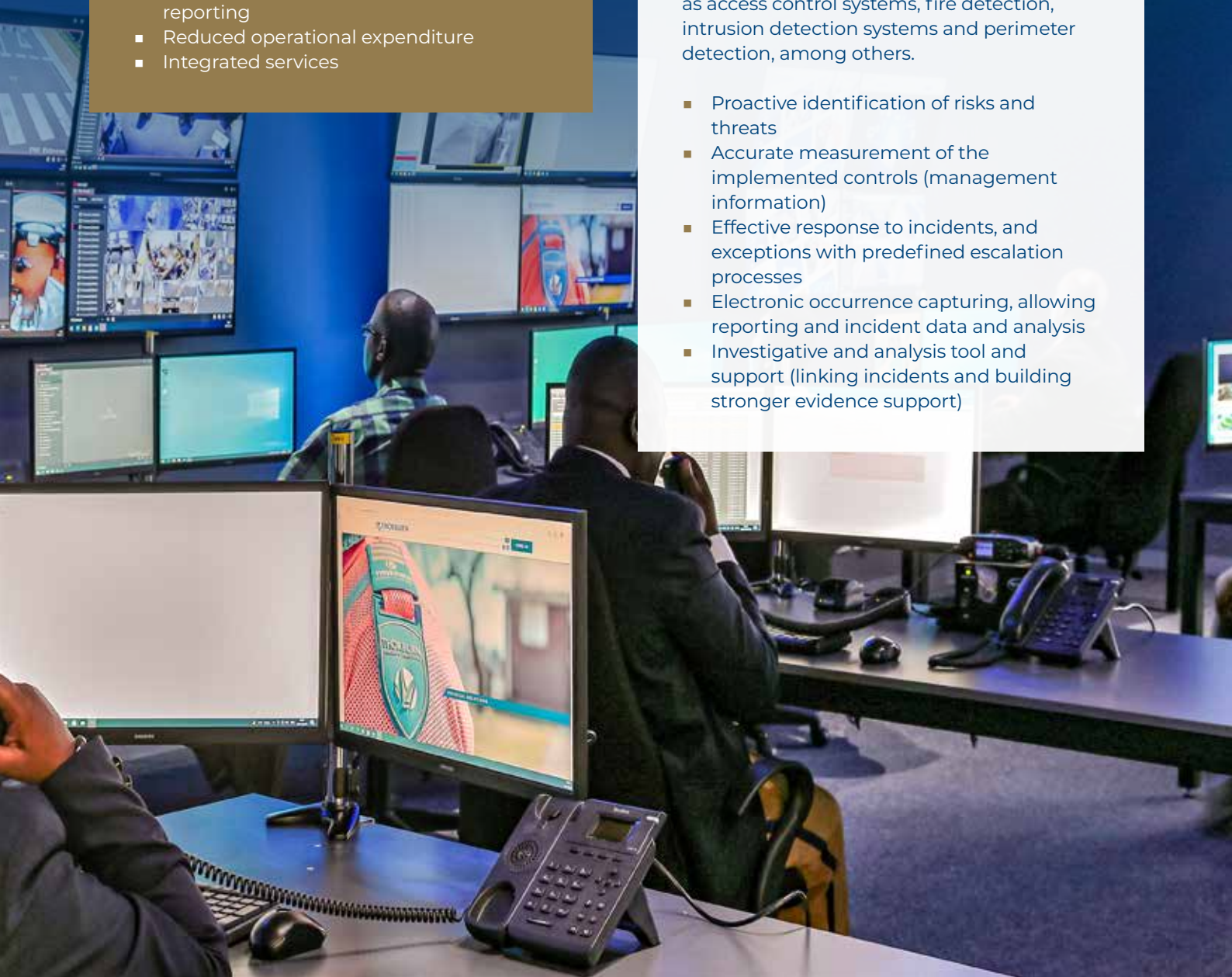- Reduced operational expenditure
- Integrated services

CiiMS

The Cyber Intelligence Information Management System (CiiMS) is a centralised electronic platform that not only manages exceptions and detections, but further advances proactive and reactive response to risks and threats. The outcomes include the use of valuable business intelligence that reinforces and improves the existing, or newly deployed, integrated security solution.

The CiiMS platform consists of multiple modules to manage the day-to-day activities, events, incidents, and exceptions experienced and reported. The data generated can be used for analytics, live dashboards and reporting.

CiiMs is a central component to an integrated security system as it links to, and controls other technological systems such as access control systems, fire detection, intrusion detection systems and perimeter detection, among others.

- Proactive identification of risks and threats
- Accurate measurement of the implemented controls (management information)
- Effective response to incidents, and exceptions with predefined escalation processes
- Electronic occurrence capturing, allowing reporting and incident data and analysis
- Investigative and analysis tool and support (linking incidents and building stronger evidence support)

ENERGY

Solar or UPS solutions

Even with the use of generators for backup power, loadshedding and electricity cuts can create breaks in monitoring reducing the effectiveness of the system. Solar powered kiosks coupled to lithium batteries generate and store clean renewable energy to constantly power security cameras and devices. Uninterupted power solutions (UPS), meanwhile, can be used to power electrical fences or to protect hardware, such as servers or electronic equipment from power surges.

- Lithuim batteries to ensure longevity of the installed solution
- Rapid deployment
- Early detection of criminal elements attempting to access the site illegally
- Energy and a overall saving on electricity bills
- Inexpensive installation costs vs 220VAC

NETWORK

Full design, wireless or fibre

Thorburn can provide the full design of a wireless or fibre performance backbone network with the capacity for high transmission. The backbone can expand its distribution networks and scale bandwidth to connect customer locations and mobile phone radio sites.

Depending on the requirements and network services provided, the horizontal and vertical end-to-end view (starting from the network services through all transmission technologies), fibre paths, cables, pipes and even the route used are necessary for complete control over the configuration. Also to incorporate security devices such as CCTV, access control, time and attendance.

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Solar provides **clean, renewable energy** for always-on electronic security devices.

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ALARM SYSTEMS

Full scope

Thorburn designs and services a full scope of fire solutions for a holistic approach to fire safety. Office blocks and business buildings are often complex and need tailored fire protection to ensure optimal safety. Thorburn makes use of a number of interconnected technologies and bespoke fire detection designs; from installation to monitoring and servicing according to SANS specifications.

- Fully accredited
- End-to-end solution
- Innovative technology
- Integrated systems design
- 24/7/365 off-site monitoring capability

OFF-SITE MONITORING

Mobile trailers and mobile command units that stream directly to our NCC

Thorburn's fully integrated rapid-deployment CCTV tower streams information to our National Control and Command Centre for 24/7/365 monitoring and response.

Our off-site solution is the industry's most advanced and Thorburn's most revolutionary solution for remote and vacant property sites. By monitoring and managing incident and response, we can effectively mitigate and respond to potential risks.

The system was developed, engineered and manufactured to meet industry challenges in a cost effective and rapid manner and is based on our team's expert knowledge and experience, along with essential client feedback.

MAINTENANCE AND SUPPORT

Commercial, estates, mining, retail, etc.

Thorburn can provide maintenance, installation and servicing for all technology solutions, either through dedicated service plans or on an ad hoc basis.

THORBURN
TECHNOLOGY SOLUTIONS

Northern Region

Gauteng and North West
Pretoria • Johannesburg • Brits
Rustenburg • Vaal Triangle

Mpumalanga and Limpopo
Steelpoort • Phalaborwa • Middelburg
Polokwane • Emalahleni • Mbombela
Musina • Beitbridge • Lebombo

Free State
Sasolburg • Bloemfontein • Welkom

Southern Region

Northern Cape
Alexander Bay • Kathu • Sishen
Kuruman • Postmasburg
Olifantshoek • Upington • Kimberly

Western Cape
Cape Town • Saldanha Bay • George
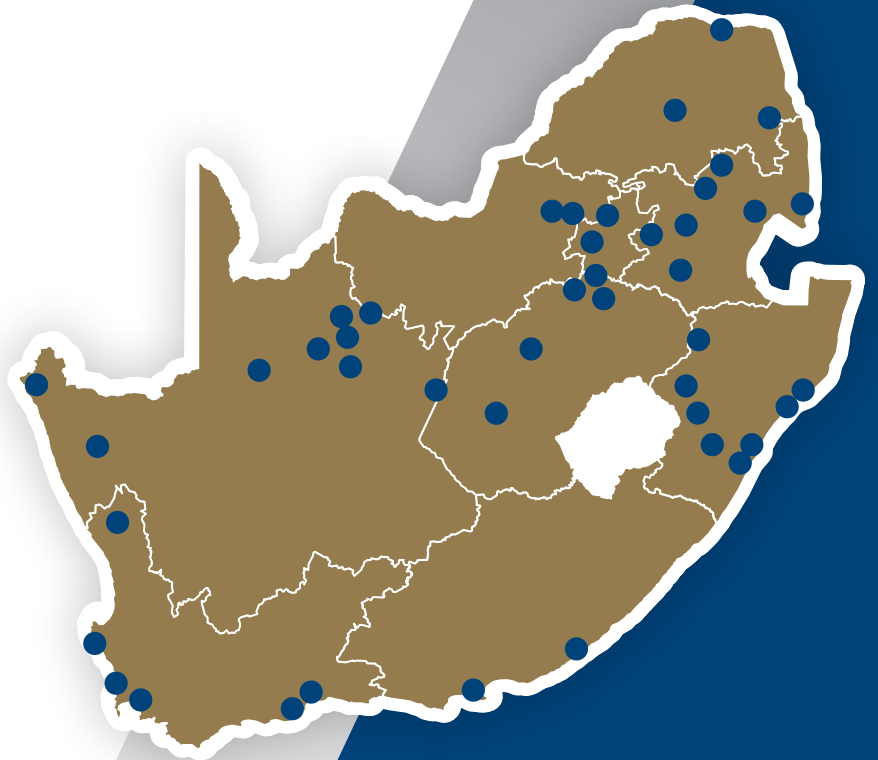Somerset West • Mossel Bay • Vredendal

Eastern Region

KwaZulu-Natal
Durban • Richards Bay • Empangeni
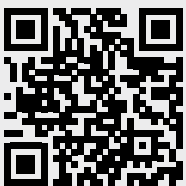Ballito • Pietermaritzburg • Newcastle
Ladysmith • Estcourt

Eastern Cape
Gqeberha • East London

OUR FOOTPRINT

Our total protection team consists of 7 000 employees

- ✔ **1 200** KZN & Eastern Cape
- ✔ **2 000** Western Cape
- ✔ **3 800** Inland

CONTACT US FOR COMPLETE PEACE OF MIND

Intelligent Protection

a **TSEBO** solution

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