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To remove the fault altogether, you will need to diagnose and correct the issue causing it. Fault Analysis Solution Series alarm systems have a comprehensive index of possible faults to indicate just about any abnormal or undesirable condition. Take note of the numbers that display, indicating the general faults. If multiple numbers show at Step 2, you will need to run Fault Analysis multiple times to look into each one as per Step 3. For a more accurate list of faults and their descriptions, please refer to the specific manual for your system, as Fault Analysis Mode will vary slightly, depending on the model of your alarm panel.Help us improve this article with your feedback. Our comprehensive portfolio includes fire alarm, sprinkler, suppression, access control, intrusion and video systems; testing, inspection, maintenance and repair services; and monitoring solutions.By continuing to use our site you agree to the use of cookies in accordance with our policy. Click for more information about our Cookie Policy or to disable cookie use. Most likely if you are configuring things you will need Bosch Alarm Systems since it contains administrative details. They have been antiquated. Glossary of Terms Points A point is a grouping of sensors in one area of the building. If a point has a fault, something is tripping a sensor in that area. Area Collection of points. This is usually a grouping inside a building such as a floor. All On This refers to the armed points. All on means every point is enabled. Part on This refers to the armed points. This enables most points but some special

designated points are still disarmed. Arming the System To arm the system please do the following Verify the lock logo is green. This indicates the system is ready to be armed. Scan your badge on the reader. When the timer starts, exit the building. Disarming the Alarm Alarm will disarm automatically when an exterior door is opened using the card system.http://trimpeks.com.tr/userfiles/commers-water-softener-manual.xml

Do not scan your badge on the alarm system. This stands for view points. You should now see a list of faulted points. Scroll through them with the left and right arrows. Go to the area in the building listed and resolve the fault. Once cleared the screen should look like this You may now arm the alarm. Resetting Alarm After It Goes Off If the alarm goes off, follow this procedure Silence the alarm. If you are outside, simply enter the building with your badge. If you are inside, scan your badge on the reader to disarm. Fix the problem in the building Close open door, papers waving in front of motion sensor, ect optional Once the system is disarmed, view the events with the icon in the upper left hand corner. The system should now return to one of the following or or Please follow the steps for arming above to rearm the system. Card Reader Light Colors The card reader can have 3 different light colors. Color Alarm State Alarm System State Red Armed Alarm is armed. Amber Disarmed Alarm is not ready to be armed and is currently disarmed. Green Disarmed Alarm is disarmed and ready to be armed. Alarm System Notifications The system will send notifications to EMail and Slack. They will look like this Color Purpose Red Time the event occurred. Blue Account this occurred for and event. Alarm is when something occurs, point restore is when it goes back to normal. Orange The area in which this event occurred. Some locations only have one area. Others have multiple. Black The name and number of the point in fault. This is the place in the building with the issue. Do not ignore this section. If this time is very short about a minute this is most likely a false alert. The VR8 can be directly interfaced with a remote or integrally supplied receiver providing full wireless operation or a combination of wireless and hardwire.The control centre speaks while showing animated icons, so that the user quickly understands the information and tasks.

Optional wireless Local SecurityNetwork wLSN support is available in Europe.Human operators have been relied on to make decisions about who to admit and deny based on levels of authorisation and the appropriate credentials. But the access control business, like many industries before it, is undergoing its own digital transformation; one where the protection of premises, assets and people is increasingly delivered by interconnected systems utilising IoT devices and cloud infrastructure to offer greater levels of security and protection. Modern access control solutions range from simple card readers to two factor authentication systems using video surveillance as a secondary means of identification, right through to complex networks of thermal cameras, audio speakers and sensors. These systems, connected through the cloud, can be customised and scaled to meet the precise requirements of today’s customer. And it’s the ease of cloud integration, combined with open technologies and platforms that is encouraging increasing collaboration and exciting developments while rendering legacy systems largely unfit for purpose. Remote management and advanced diagnostics. Cloud technology and IoT connectivity means remote management and advanced diagnostics form an integral part of every security solution.Cloud technology and IoT connectivity means remote management and advanced diagnostics form an integral part of every security solution. For example, as the world faces an unprecedented challenge and the COVID19 pandemic continues to cause disruption, the ability to monitor and manage access to sites remotely is a welcome advantage for security teams who might otherwise have to check premises in person and risk breaking social distancing regulations. The benefits of not physically having to be on site extend to the locations within which these technologies can be utilised.

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As an example, within a critical infrastructure energy project, access can be granted remotely for

maintenance on hard to reach locations. Advanced diagnostics can also play a part in such a scenario. When access control is integrated with video surveillance and IP audio, realtime monitoring of access points can identify possible trespassers with automated audio messages used to deter illegal access and making any dangers clear. And with video surveillance in the mix, high quality footage can be provided to authorities with realtime evidence of a crime in progress. Comprehensive protection in retail. Within the retail industry, autonomous, cashierless stores are already growing in popularity. The use of connected technologies for advanced protection extends to many forwardlooking applications. Customers are able to use mobile technology to selfscan their chosen products and make payments, all from using a dedicated app. From an access control and security perspective, connected doors can be controlled to protect staff and monitor shopper movement. Remote management includes tasks such as rolling out firmware updates or restarting door controllers, with push notifications sent immediately to security personnel in the event of a breach or a door left open. Remote monitoring access control in storage. In the storage facility space, this too can now be entirely run through the cloud with remote monitoring of access control and surveillance providing a secure and streamlined service. There is much to gain from automating the customer journey, where storage lockers are selected online and, following payment, customers are granted access. Through an app the customer can share their access with others, check event logs, and activate notifications. With traditional padlocks the sharing of access is not as practical, and it’s not easy for managers to keep a record of storage locker access.

Online doors and locks enable monitoring capabilities and heightened security for both operators and customers. The elimination of manual tasks, in both scenarios, represents cost savings. When doors are connected to the cloud, their geographical location is rendered largely irrelevant. They become IoT devices which are fully integrated and remotely programmable from anywhere, at any time. This creates a powerful advantage for the managers of these environments, making it possible to report on the status of a whole chain of stores, or to monitor access to numerous storage facilities, using the intelligence that the technology provides from the data it collects. Open platforms power continuous innovation. All of these examples rely on open technology to make it possible, allowing developers and technology providers to avoid the pitfalls that come with the use of proprietary systems. The limitations of such systems have meant that the ideas, designs and concepts of the few have stifled the creativity and potential of the many, holding back innovation and letting the solutions become tired and their application predictable. Proprietary systems have meant that solution providers have been unable to meet their customers’ requirements until the latest upgrade becomes available or a new solution is rolled out. This use of open technology enables a system that allows for collaboration, the sharing of ideas and for the creation of partnerships to produce groundbreaking new applications of technology. Open systems demonstrate a confidence in a vendor’s own solutions and a willingness to share and encourage others to innovate and to facilitate joint learning. An example of the dynamic use of open technology is Axis’ physical access control hardware, which enables partners to develop their own cloudbased software for control and analysis of access points, all the while building and expanding on Axis’ technology platform.

Modern access control solutions range from simple card readers to two factor authentication systems using video surveillance as a secondary means of identification. Opportunities for growth. Open hardware, systems and platforms create opportunities for smaller and younger companies to participate and compete, giving them a good starting point, and some leverage within the industry when building and improving upon existing, proven technologies. This is important for the evolution and continual relevance of the physical security industry in a digitally enabled world. Through increased collaboration across technology platforms, and utilising the full range of possibilities

afforded by the cloud environment, the manufacturers, vendors and installers of today's IP enabled access control systems can continue to create smart solutions to meet the everchanging demands and requirements of their customers across industry. In most cases, digital transformation will fundamentally change how an organisation operates and delivers value to its customers. And within the security realm, the age of digital transformation is most certainly upon us. Technology is already a part of our daytoday lives, with smart devices in our homes and the ability to perform tasks at our fingertips now a reality. No longer are the cloud, Internet of Things IoT and smart cities foreign and distant concepts full of intrigue and promise. Enhancing business operations. We're increasingly seeing devices become smarter and better able to communicate with each other. These elements are increasingly incorporated into security solutions with each passing day, allowing enterprises the chance to experience countless benefits when it comes to enhancing both safety and business operations. As we become more familiar with the advantages, flaws, expectations and best practices surrounding the connected world, we can predict what issues may arise and where the market is heading.

We're increasingly seeing devices become smarter and better able to communicate with each other through the IoT to achieve both simple goals and arduous tasks. Analyticsdriven solutions. The focus is now shifting to the business impacts of connectivity between physical devices and infrastructures, and digital computing and analyticsdriven solutions. Within physical security, connected devices can encompass a variety of sensors gathering massive amounts of data in a given timeframe video surveillance cameras, access control readers, fire and intrusion alarms, perimeter detection and more.As the data from each of these sensors is collected and analysed through a central platform, the idea of a connected world comes to fruition, bringing situational awareness to a new level and fostering a sense of proactivity to identifying emerging threats. The connected world, however, is not without its challenges, which means that certain considerations must be made in an effort to protect data, enhance structured networking and apply protective protocols to developing technology. Physical security systems. We can expect to see the conversations regarding data privacy and security increase as well. As the use of connected devices and big data continue to grow, we can expect to see the conversations regarding data privacy and security increase as well. Connectivity between devices can open up the risk of cyber vulnerabilities, but designing safeguards as technology advances will lessen these risks. The key goal is to ensure that the data organisations are using for enhancement and improvements is comprehensively protected from unauthorised access. Manufacturers and integrators must be mindful of their products capabilities and make it easy for end users to adhere to data sharing and privacy regulations.

These regulations, which greatly affect physical security systems and the way theyre managed, are being implemented worldwide, such as the European Unions General Data Protection Regulation GDPR. In the United States, California, Vermont and South Carolina have followed suit, and it can be expected that more countries and U.S. states develop similar guidelines in the future. Automatic security updates. IoT technology is accelerating at such a pace that it can potentially create detrimental problems for which many organisations may be illprepared or may not even be able to comprehend. The opportunities presented by an influx of data and the IoT, and applying these technologies to markets such as smart cities, can solve security and operational problems, but this requires staying proactive when it comes to threats and practicing the proper protection protocols. As manufacturers develop devices that will be connected on the network, integrating standard, builtin protections becomes paramount. This can take the form of continuous vulnerability testing and regular, automatic security updates. Protocols are now being developed that are designed to ensure everything is encrypted, all communications are monitored and multiple types of attacks are

considered for defensive purposes to provide the best security possible. IoTconnected devices. Hackers wishing to do harm will stop at nothing to break into IoTconnected devices. Builtin protection mechanisms send these kinds of systems into protection mode once they are attacked by an outside source. Another way for manufacturers to deliver solutions that are protected from outside threats is through constant and consistent testing of the devices long after they are introduced to the market. Hackers wishing to do harm will stop at nothing to break into IoTconnected devices, taking every avenue to discover vulnerabilities. Providing critical insights.

The number of active IoT devices is expected to grow to 22 billion by 2025 — a number that is almost incomprehensible. The rise of 5G networks, artificial intelligence AI and selfdriving cars can be seen on the horizon of the IoT. As more of these devices are developed and security protocols are developed at a similar pace, connected devices stand to benefit a variety of industries, such as smart cities. Smart cities rely on data communicated via the IoT to enhance processes and create streamlined approaches. Smart cities rely on data communicated via the IoT to enhance processes and create streamlined approaches to ensuring a city is wellrun and safe. For example, think of cameras situated at a busy intersection. Cameras at these locations have a variety of uses, such as investigative purposes in the event of an accident or for issuing redlight tickets to motorists. But there are so many other possible purposes for this connected device, including providing critical insights about intersection usage and traffic congestion. These insights can then be used to adjust stoplights during busy travel times or give cities valuable data that can drive infrastructure improvements. Physical security market. The impact of connected devices on cities doesn’t stop at traffic improvement. The possibilities are endless; by leveraging rich, realtime information, cities can improve efficiencies across services such as transportation, water management and healthcare. However, stringent protections are needed to harden security around the networks transmitting this kind of information in an effort to mitigate the dangers of hacking and allow this technology to continuously be improved. Whether you believe we’re in the midst of a digital transformation or have already completed it, one thing is certain businesses must begin thinking in these connectivitydriven terms sooner rather than later so they aren’t left behind.

Leveraging smart, connected devices can catapult organisations into a new level of situational awareness, but adopting protections and remaining vigilant continues to be a stalwart of technological innovation within the physical security market and into the connected world. Systems integration was identified as one of the top technologies expected to have the biggest impact on the implementation in smart buildings over the next five years, with respondents planning to invest in security, fire and lifesafety integrations more so than any other systems integration in the next year. As advanced, connected technologies drive the evolution of smart buildings, security and safety technologies are at the center of more intelligent strategies as they attribute to overall building operations and efficiencies. SourceSecurity.com spoke with Johnson Controls, Building Solutions, North America, VP of Marketing, Hank Monaco, and Senior National Director of Municipal Infrastructure and Smart Cities, Lisa Brown, about the results of the study, smart technology investments and the benefits of a holistic building strategy that integrates security and fire and lifesafety systems with core building systems. Q What is the most striking result from the survey, and what does it mean in the context of a building’s safety and security systems The results show an increased understanding about the value of integrating safety and security systems with other building systems. Hank Monaco Investment in building system integration increased 23 percent in 2019 compared to 2018, the largest increase of any measure in the survey. When respondents were asked more specifically what systems they we planning to invest in over the next year, fire and life safety integration 61% and security system integration 58% were the top two priorities for organisations.

The results show an increased understanding about the value of integrating safety and security

systems with other building systems to improve overall operations and bolster capabilities beyond the intended function of an individual system. For example, when sensors and video surveillance are integrated with lighting systems, if abnormal activity is detected on the building premise, key stakeholders can be automatically alerted to increase emergency response time. With integrated video surveillance, they also gain the ability to access surveillance footage remotely to assess the situation. When sensors and video surveillance are integrated with lighting systems abnormal activity on the premise can automatically be detected. Q How can integrated security and life safety systems contribute to greater energy efficiency in a smart building environment Hank Monaco Security, fire and lifesafety systems can help to inform other building systems about how a facility is used, hightrafficked areas and the flow of occupants within a building. Integrated building solutions produce a myriad of data that can be leveraged to increase operational efficiencies. From an energy efficiency standpoint, actionable insights are particularly useful for areas that are not frequently occupied or offpeak hours as you wouldn't want to heat or cool an entire building for just one person coming in on the weekend. When video surveillance is integrated with HVAC and lighting systems, it can monitor occupancy in a room or hallway. The video analytics can then control the dimming of lights and the temperature depending on occupant levels in a specific vicinity. Similarly, when access control systems are integrated with these same systems, once a card is presented to the reader, it can signal the lights or HVAC system to turn on. In this example, systems integration can ultimately help enable energy savings in the long run.

Security and life safety systems contribute to help enable greater energy efficiency and energy savings in the long run. Q What other benefits of integration are there beyond the core security and life safety functions Hank Monaco Beyond increased security, fire and lifesafety functions, the benefits of systems integration include. Increased data and analytics to garner a holistic, streamlined understanding of how systems function and how to improve productivity. Ability to track usage to increase efficiency and reduce operational costs. Enhanced occupant experience and comfort. Increased productivity and workflow to support business objectives. Smartready, connected environment that can support future technology advancements. How can the owner of an existing building leverage the benefits of the smart building environment incrementally and absent a complete overhaul Lisa Brown Johnson Controls Energy Efficiency Indicator found that 77% of organisations plan to make investments in energy efficiency and smarter building technology this year. This percentage demonstrates an increased understanding of the benefits of smart buildings and highlights the proactive efforts building owners are taking to adopt advanced technologies. There is an increased understanding that buildings operate more effectively when different building systems are connected. As smart buildings continue to evolve, more facilities are beginning to explore opportunities to advance their own spaces. A complete overhaul of legacy systems is not necessary as small investments today can help position a facility to more easily adopt technologies at scale in the future. As a first step, it's important for building owners to conduct an assessment and establish a strategy that defines a comprehensive set of requirements and prioritises usecases and implementations. From there, incremental investments and updates can be made over a realistic timeline.

Q What is the ROI of smart buildings Lisa Brown As demonstrated by our survey, there is an increased understanding that buildings operate more effectively when different building systems are connected. The advanced analytics and more streamlined data that is gathered through systems integration can provide the buildingperformance metrics to help better understand the return on investment ROI of the building systems. This data is used to better understand the environment and make assessments and improvements overtime to increase efficiencies. Moreover, analytics and data provide valuable insights into where action is needed and what type of return can be expected from key investments. According to a recent survey, 60% of shoppers are afraid of going grocery shopping, with 73% making fewer trips to physical stores. Returning to the workplace is also causing

unease, as 66% of employees report feeling uncomfortable about returning to work after COVID19. Businesses and employers are doing their best to alleviate these fears and create safe environments in and around their buildings. Costs in the billions that most businesses will face alone, without support from insurance and amidst larger macroeconomic challenges. Saving costs and increasing security. But what if building operators, retail shop owners, and other stakeholders could save costs by leveraging new functionality from their existing security infrastructure. This is exactly where video analytics algorithms come into play. And in the next step, a new evolutionary approach towards open security camera platforms promises new opportunities. Security cameras have evolved from mere image capturing devices into complex data sensors. Over the past decade, security cameras have evolved from mere image capturing devices into complex data sensors. They provide valuable data that can be analysed and used in beneficial ways that are becoming the norm.

Since 2016, Bosch has offered builtin Video Analytics as standard on all its IP cameras. On one hand, this enables automated detection of security threats more reliably than human operators. And on the other hand, video analytics collect rich metadata to help businesses improve safety, increase efficiency, reduce costs, and create new value beyond security. Expanding camera functionality beyond security. The rich metadata from several cameras on the same network can also be consolidated by making use of an intelligent software solution. It offers socalled predefined widgets to provide business intelligence by measuring area fill levels, counting building occupancy and detecting the formation of crowds. In combination with live video stream data, these insights enable heightened situational awareness to security operators. These usercentric widgets also come in handy in dealing with the coronavirus pandemic. Specific widgets can trigger an alarm, public announcement or trigger a traffic light when the maximum number of people in a space is exceeded. At the same time, the option to perform remote maintenance on these systems limits the exposure of technicians in the field during the pandemic. Again, the underlying camera hardware and software already exist. For instance, cameras could monitor distances between individuals and trigger voice announcements when social distancing guidelines are violated. Facial recognition software can be trained to monitor personal protective equipment PPE compliance and sound alerts for persons entering buildings without masks. The technical requirements are already in place. The task at hand is to deliver these new functionalities to cameras at scale, which is where open camera platforms hold the key. Why open camera operating systems When it comes to innovating future camera applications that extend beyond security, no hardware manufacturer should go at it alone.