

Terafence Vsecure Adopted for IP Camera Networks in Okinawa



In today's world of Cyber Warfare, attackers and rogue actors have the upper hand. They tirelessly search for every vulnerability to exploit and spread chaos wherever they can. It's even more concerning that some rogue actors are supported and funded by governments and intelligence communities. This highlights the critical need for information security, as it's essential for maintaining successful day-to-day operations.

However, there is still hope. Security-conscious individuals or organisations can level the playing field with the right tools and strategy. That's where our products come in.

Our solution is designed to protect not only the IP camera and CCTV devices themselves but also the entire network infrastructure and control centre. With our cutting-edge technology, the world's leading enterprises can be confident that their IP camera and CCTV networks and systems is secure and safeguarded from even the most advanced attacks.

If you're looking to stay ahead of the game and protect your business against cyber threats, our solutions are on your side.

So, if you're looking to stay ahead of the game and protect your business and operations against cyber threats. With our solutions on your side. You can rely on us to help you keep your business and operations running smoothly and securely, no matter what challenges come your way.



Introduction



The customer knew the critical importance of securing their CCTV monitoring control centre and campus network. They understood that any breach in these areas could lead to severe consequences, including compromised data, loss of sensitive information, and potential damage to their reputation. As a result, the customer knew they needed to implement a robust security solution to safeguard their monitoring centre and campus network against potential threats. They knew it would require careful planning, diligent monitoring, and ongoing maintenance to ensure their operations' highest level of protection.

The Challenge

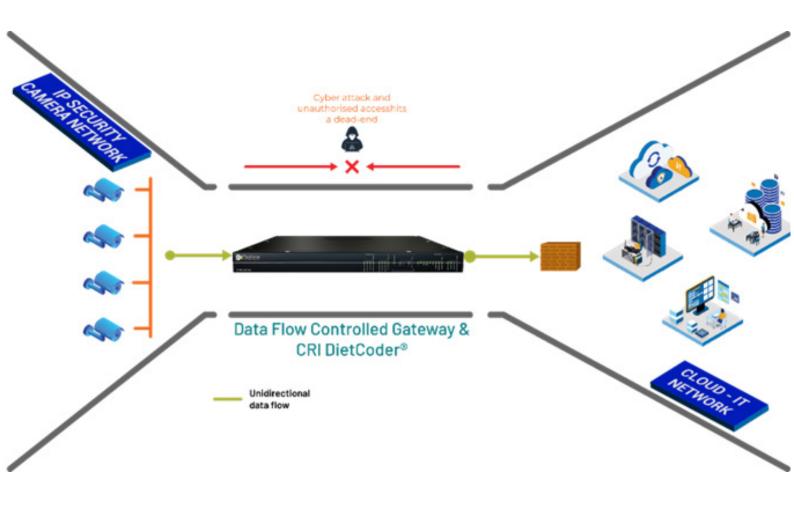
The customer had installed IP/CCTV cameras in a location outside of their secure campus. However, due to the installation location, some cameras were physically accessible and could be tampered with. Therefore, creating a security risk as attackers could potentially gain access to the network by installing rogue access trojan malware and hardware. The customer was also aware that the firewalls in place offered limited security.

In addition, the customer was also concerned about the security of the IP/CCTV cameras themselves. They acknowledged that some vendors had pre-installed malware and trojans on their cameras, creating a risk of unauthorised access to sensitive data and information. Furthermore, they suspected some vendors had backdoors allowing third parties and rogue state actors to intercept and cipher sensitive data such as video, stills, and metadata to hostile websites or servers. These vulnerabilities posed significant challenges to the security and privacy of the customer's data and information.

The Solution

A solution was architected and implemented using Terafence's Vsecure (TF Vsecure) product to address the customer's security challenge. The TF Vsecure product is a unidirectional gateway that utilises Terafence's proprietary Air-Gap data flow controller technology, powered by a priority neural hardware (FPGA) microchip. This solution ensures that communication flows only in one direction, from the camera to the control centre, effectively blocking unauthorised access to the network and preventing cyber-attacks and unauthorised transmission.

One critical benefit of the TF Vsecure product is that even if a camera is compromised with malware, it cannot propagate to the CCTV monitoring control centre and campus network. The reason is because of the proprietary Air-Gap data flow controller used in Terafence's unidirectional cyber security gateways, which ensures that data can only travel in one direction, from the camera to the control centre. The image below illustrates this concept:



The Result

With Terafence's TF Vsecure product, the first IP and CCTV camera unidirectional gateway. The customer now has peace of mind, knowing that their CCTV monitoring control centre and campus network are protected by a robust security solution that safeguards their operations against potential threats. In addition, the TF Vsecure product offers a reliable, cost-effective, and easy-to-use solution that can be customised to meet the customer's unique needs.

Conclusion

The successful implementation of Terafence's TF Vsecure unidirectional gateway in Okinawa is a testament to the importance of reliable and secure solutions in critical infrastructure in the IoT and OT domains. Terafence's expertise in IoT and OT cybersecurity technology provided a secure and efficient solution for securing the end customer's IP camera network.

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