







From ransomware to malware to hackers trying to break through barriers inside and outside of the network, no industry is immune to bad actors finding ways around traditional cybersecurity, including state and local governments.

Ransomware and malware attacks across all industries are up 350 percent since 2018¹. These attacks can be devastating to state and local government operations – and costly. A ransomware attack on the city of Atlanta cost an estimated \$2.7 million to remediate, with government computer networks, including the one supporting the police department, forced offline and years' worth of data lost².

Today's Security Is Built Around When, Not If

The current cybersecurity paradigm accepts that an organization must deal with a breach **when** it happens. Security teams find themselves in perpetual cybersecurity crisis mode, trying to catch a breach quickly, limit the spread within the network, and deal with remediation. Even zero trust architectures assume breach – limiting movement within the network once the bad actors are already there.

Software programs that initiate after the user logs in and connects to the network service are trusted to protect networks, servers, and endpoints. By then, as we have seen, it is often too late. And, with large numbers of state and local employees working from home, as well as in the office and in the field, risks are greater.

The reality is that breaches don't have to be inevitable. To create a truly secure environment, cybersecurity needs to start at the hardware level, when the user turns on their computer. This is the case in many safety-critical instances (consider airplane operating systems, medical devices, etc.), and this same approach can (and is) delivering fully secure, remote access – including to classified networks.

Zero Vulnerability Is Achievable

In the 1990s, INTEGRITY Global Security's experts created an operating system to provide the highest levels of security and reliability. In 2004, the United States Air Force had a requirement for the F35 Joint Strike Fighter to protect classified mission critical data while being exposed to potentially malicious network access. This prompted a rigorous four-year endeavor to test and confirm that the INTEGRITY™ operating system was 100 percent secure.

The same system that securely controls the avionics, communications, and weapon systems on the most sophisticated aircraft in the world is now available to secure your employees' desktop computers, servers, thin clients, and laptops.

How Zero Vulnerability Works

- Dell Technologies laptops, desktops, and tablets are delivered embedded with IGS INTEGRITYTM software
- When the user turns on their device, INTEGRITY runs a security check that validates the state of the system, and then verifies the user through multi factor authentication
- The user connects to a secure network server via an encryption stack that is embedded in the INTEGRITY software, providing a secure connection even through commercial Wi-Fi or hotspots
- All other software programs on the computer

 including programs such as Windows are
 housed in containers. If any software program
 on the endpoint experiences a security issue,
 that issue is contained without infecting the
 device or the network

One Solution Awarded Nation's Highest Level Security Designation

INTEGRITY Global Security has a 40-plus year record securing safety-critical endpoints.

Deployed on commercial and U.S. military aircraft since the 1990s, including Boeing and Airbus aircraft models and F-series fighter jets, INTEGRITY also secures safety-critical and purpose built systems in the medical, automotive, and industrial industries – where a breach can mean loss of life.

INTEGRITY meets the most stringent security requirements in the world and the National Information Assurance Partnership (NIAP) awarded INTEGRITY a Common Criteria Certificate twice – the **only security solution** to achieve this standard at the highest level of EAL6+. NIAP executed stringent testing for more than four years before award. The technology also meets the National Security Agency's Commercial Solutions for Classified (CSfC) requirements for Mobile Access Capability Package (MACP) and Data at Rest (DAR).

This means Dell Technologies endpoints with INTEGRITY enables zero vulnerability remote access secure enough for classified networks – and for your teams.



INTEGRITY™ in Action

IP Protection

- Provides end-to-end encryption from client to server with private cloud overlay
- Prevents data leakage by enforcing the security policy in the hardware

Compliance

- Isolates regulated infrastructure from unregulated components
- Minimizes auditable infrastructure
- Provides seamless access to multiple security domains, isolating critical infrastructure

Remote Access

- Embeds VPN into hardware
- Enforces network traffic through controlled pathways

IT/OT Boundary

- Isolates managed IT infrastructure from IoT devices
- Prevents spread of ransomware and malware
- Reduces complexity by using common IP infrastructure

Prevent Threats from Breaching Your Network – Learn More

Dell Technologies endpoints for the enterprise, protected with the INTEGRITY solution are available through <u>delltechnologies.com/en-us/industry/state-local-government/index.htm</u>.

Learn more:

integrityglobalsecurity.com/commercial.html

- 2019/2020 Cybersecurity Almanac: 100 Facts, Figures, Predictions, and Statistics, Cybercrime Magazine
- Cost of City of Atlanta's Cyber Attack: \$2.7 Million and Rising, Atlanta Journal Constitution