

# Abaco Announces Integrated MIL-STD-1553 Cyber Resiliency Solution

*Non-invasive solution that mitigates threats in real-time*

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[/EINPresswire.com/](https://www.einpresswire.com/) -- Abaco Systems announced the release of 1553Guard™, a new security technology for MIL-STD-1553-based systems which provides an additional layer of protection against cyber-attacks. 1553Guard is an integrated solution which is directly built into the 1553 interface. Other

technologies require expensive hardware and significant software modification but may not include threat mitigation. Abaco's "plug-and-play" device detects and alleviates threats in real-time from a single device through continual monitoring and protection for the entire bus, protecting equipment from damage and preventing attacks that could otherwise compromise platform integrity or mission security.

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We ensure our customers have the right tools to succeed. The 1553Guard does just that – by providing an innovative cyber resiliency solution to protect mission ready systems from attack.”

*Pete Thompson, VP of Product Management for Abaco*



Abaco's 1553Guard cyber resiliency solution with built-in monitoring and protection

MIL-STD-1553 was released by the US Department of Defense before the advent of modern cyber-warfare and lacks many of the tools used to secure modern networks. More recently it was identified as a potential danger that adversaries could leverage to compromise equipment and spread malicious software across a system. Abaco designed 1553Guard to relieve these security issues.

The device continuously monitors bus traffic, identifies incidents based on user-defined rules and algorithms, then mitigates the threat. While other solutions offer the ability

to monitor and detect vulnerabilities, 1553Guard can actively defeat cyber occurrences in real time. The security mechanism is implemented in hardware that cannot be easily bypassed or disabled by malicious software or users. This is an ideal solution to reduce risk for on-platform use or when integrated into test and maintenance equipment which rely on the standard.

Abaco's solution protects the entire bus through a single device, reducing integration time and effort by avoiding the costly and complex process of hardware and software redesign and requalification of existing LRUs and modules. Once added to the bus, 1553Guard is entirely passive and does not interfere with normal bus communication. When improper messages are detected, those messages can be individually disabled without interruption to normal bus traffic. It can be easily integrated onto any existing bus using one of Abaco's existing XMC, USB or mPCIe products or using a stand-alone device connected to the bus.

Pete Thompson, vice president of product management for Abaco Systems, said, "Abaco continues to invest in new technologies like this to deliver solutions which will help secure systems and equipment. It is more cost effective and easier to integrate than other technologies which may protect only a single point or device. We are determined to deliver a product focused on ensuring our customers have the right tools to succeed. The 1553Guard does just that - by providing an innovative cyber resiliency solution to protect mission ready systems from attack."

[More Information](#)  
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#### About Abaco Systems

Abaco Systems is a global leader in commercial open architecture computing and rugged embedded electronics. With more than 30 years of experience in aerospace & defense, industrial, energy, medical, communications and other critical sectors, Abaco's innovative solutions align with open standards to accelerate customer success.

Abaco Systems is a subsidiary of AMETEK, Inc., a leading global manufacturer of electronic instruments and electromechanical devices with 2020 sales of more than \$4.5 billion.

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