

Cyber Sciences, Inc.

Taking the Guesswork Out of Critical Power Loss Reconstruction and Restoration

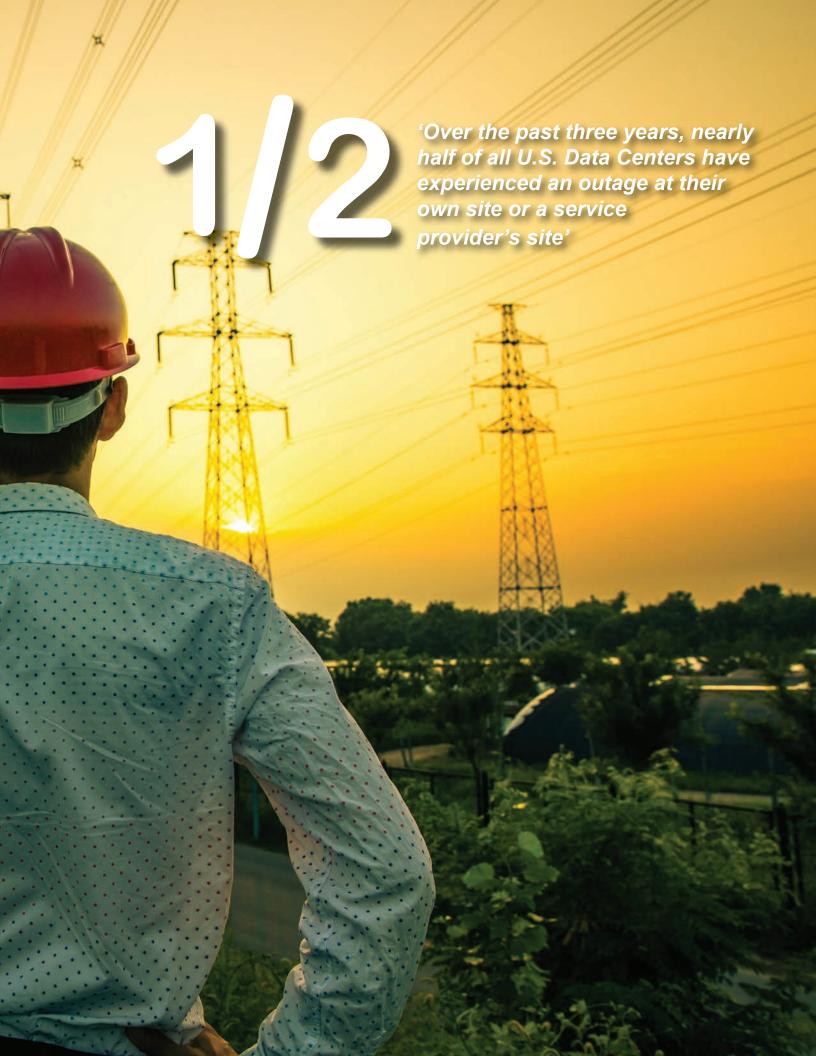




Loss of power for a critical facility is costly. Whether it is a power outage or power anomaly, determining what happened and how to recover quickly is essential!

Cyber Sciences develops innovative solutions to help in event reconstruction and power restoration. These solutions precisely synchronize equipment across the power system and accurately record events to 1 millisecond providing users with the most reliable and accurate data.

This data is easily integrated into any power monitoring system for enhanced analysis allowing for quick recovery from power events and preventing future recurrences.







HEALTHCARE

Healthcare facilities are an integral part of our society. In the healthcare industry, always-on power is key for patient safety and acute care. When the loss of power can result in patient injury or loss of life, failure to provide reliable power is not and option.

For patient safety, hospitals require reliable power 24 hours a day, 7 days a week. Electrical power distribution systems designed for hospitals are complex, especially the Emergency Power Supply System (EPSS). With ever increasing disruptions in utility power, confidence in the Emergency Power Supply System's ability to move from normal to stand-by power is essential.



Critical healthcare facilities are required to conform to the requirements of the NFPA 110 Standard which calls for periodic maintenance of the EPSS as well as testing generators, transfer switches, batteries, and breakers serving the electric utility and emergency power supplies. Regular testing of these systems increases the probability of identifying reliability issues and reduces risks of losing emergency power.

The Cyber Sciences Sequence of Events Recorder enables any remote monitoring system used for automated testing to deliver the most precise data for evaluation and assessment of the Emergency Power Supply System.



Microgrids are electrical power distribution systems specifically designed to operate interdependently with the electric power grid. Often these include alternative energy sources such as wind and solar power, with storage batteries and means to ensure system stability while connected to the grid, or in 'island' mode.

These complex power networks require challenging engineering and dynamic controls. To ensure reliable power, root-cause analysis is needed to understand the sequence of events, not only for disaster recovery, but to diagnose any abnormal condition, long before these lead to instability or outages.

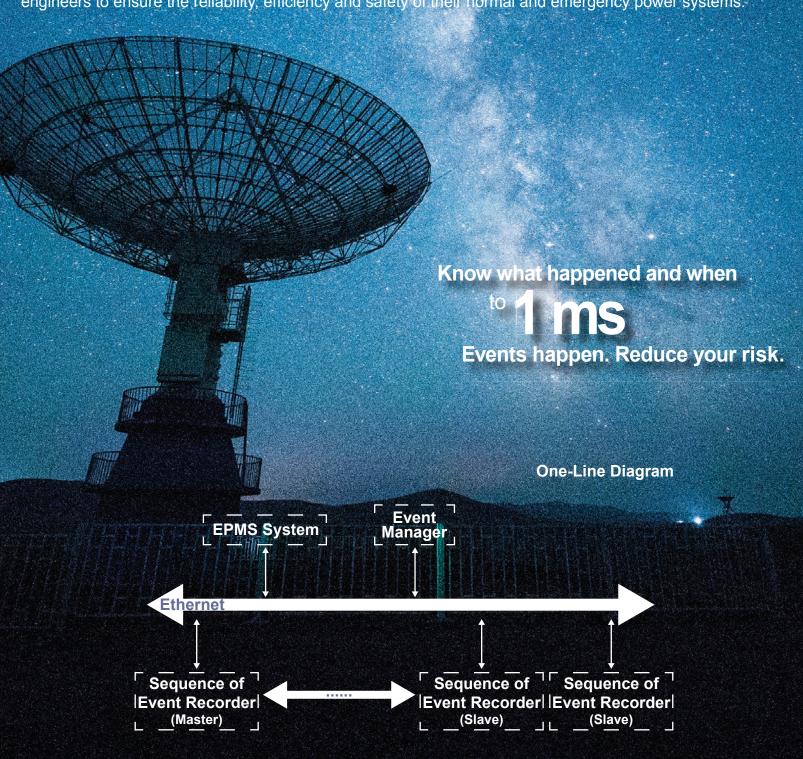


Our solutions time sync connected electrical components and time stamp events to 1 millisecond, helping to ensure the accuracy, efficiency and safety of normal and emergency power systems.

OUR SOLUTIONS...

Cyber Sciences is the global leader in precision time solutions for critical power facilities, including data centers, hospitals, industrial applications, universities, airports, microgrids and alternative energy.

All Cyber Sciences products are manufactured and designed to meet global standards, with key applications including sequence of events recording (SER) and GPS time synchronization. We help facility managers and engineers to ensure the reliability, efficiency and safety of their normal and emergency power systems.



CyTime Sequence of Events Recorder



Sequence of Events Recorder

CyTime[™] Sequence of Events Recorder (SER) models SER-32e, SER-3200 and SER-2408 record status changes time-stamped to 1 ms. Time synchronization is achieved via PTP (IEEE 1588), IRIG-B, DCF77, NTP, Modbus TCP or ASCII RS-485. An embedded web server allows setup over a network using a standard browser, plus easy access to all events, status and even custom pages. The SER-32e provides additional features such as ride through capabilities, a large color display for easier setup and navigation and enhanced cyber security.

CyTime Event Manager

The CyTime™ Event Manager provides the ability to view and monitor I/O status from multiple Sequence of Event Recorders (SERs) in one easy to use web interface. This helps to provide an overall view of the diagnostic health of the critical power system.

The Event Manager also allows the consolidation of events from all downstream SERs pertaining to a single incident, providing fast and powerful event reconstruction analysis. A valuable resource to help identify power loss events quicker, saving time and money for power restoration in critical power applications.



Event Manager



Satellite Time Reference

GPS Time Sync - Satellite Time Reference

The STR-100 Satellite Time Reference is a microprocessor-based device that accepts GPS time signals from a smart antenna or receiver and outputs a time synchronization signal to power system devices for sequence of events recording (SER) applications.

2 Wire to 4 Wire Converter

Ensure connectivity of RS-485 devices with the CNV-100, which enables interoperability of RS485 2-wire and 4-wire multi-point data communication networks. The CNV-100 connects 2-wire devices to 4-wire systems or 4-wire devices to 2-wire systems. LEDs flash to confirm data transmit/receive at both 2-wire and 4-wire sides. The CNV-100 can be used with any protocol that adheres to the RS-485 standard operating at baud rates of 9600, 19.2k or 38.4k bps.



Accessories and Services

RS-485 Connectivity

Cyber Sciences offers services and 3rd-party accessories to facilitate GPS time-sync and sequence of events recording. We want your project to go smoothly. Ask us to include 3rd party products in your comprehensive quote!



Cyber Sciences, the world leader in critical power loss event recording.

For more information, visit: www.cyber-sciences.com

Cyber Sciences, Inc. (CSI) 229 Castlewood Drive, Suite E Murfreesboro, TN 37129 USA

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