CyTime™ Event Manager
Event Management for Critical Power Applications
Why Sequence of Events Recording?

- For meaningful data analysis, devices must share a common (precise) time reference.
- More data points captured during an electrical event provides a clearer picture of what happened allowing for better decisions.
- Millisecond time stamped data allows easier verification of automatic transfer schemes and other control systems.
Know what happened and when—*to 1 msec!*

**Understand**—Forensics tool
- Perform root-cause analysis based on reliable data.
- View current and voltage waveforms captured with each event.
- Determine if the initial source was internal or external.

** Respond**—Act quickly
- Evaluate control sequences, timing, and operator actions.
- Confirm protective device time-current coordination.
- Restore service quickly if an outage does occur.

**Prevent**—Take corrective actions
- Resolve or mitigate persistent problems.
- Provide documentation for the electric utility, legal, insurance, etc.
- Identify slow breakers before they can cause an arc flash hazard.
Sequence of Events Recording’s needed where reliable power is important:

- Data centers
- Hospitals
- Industrial facilities
- Universities
- Airports
- Microgrids & alternative energy
Sequence of Events Recording

Cyber Sciences has provided sequence of events recording solutions for over 10 years!

- STR-100/ STR-100-IRIG-B
- SER-3200/2408
- EZC- IRIG-B/DCF-77
- PLX-5V/24V
- STR-IDM
INTRODUCING THE CYTIME EVENT MANAGER
The CyTime™ Event Manager

The CyTime™ Event Manager provides the ability to view and monitor input/output (I/O) status from multiple Sequence of Event Recorders (SERs) in one easy to read web interface.

This intuitive, simple to use tool lets users take better advantage of precision time recordings of status changes in electrical equipment. Where critical power applications are concerned, the Event Manager helps easily identify I/O status and speed up troubleshooting efforts when an event has occurred.

The Event Manager is valuable in identifying power loss events quicker, saving time and money for power restoration in critical power applications.
CyTime™ Event Manager
Providing System capability for Sequence of Events Recording

CyTime Event Manager
- Connects to all downstream SERs
- Presents unified view of SER system data
- Quickly view SER Network System Health
- View all input status changes from all SERs in sequence for a single event
CyTime™ Event Manager: Features & Benefits

- **Monitor numerous SERs from one browser:** View SERs on a system level with an easy to view and understand User Interface
- **Quick analysis of SERs:** Quick overview of SER status with easy to identify colored status indicators
- **Event Log Screen:** View at once, the event log from all connected devices on the network. The event log contains items: Date / Time, Device Name, IP Address, Channel, Event Type, Status, Time Quality, Sequence of Events, Delta Time
- **I/O Status Screen:** Instantly view all I/O status ON/OFF indicators down to each circuit per each SER located on the system
- **Diagnostic Screen:** Quickly ascertain diagnostics on each individual system device. The Diagnostic screen shows: Device Name, IP, Catalog Number (SKU), HW, FW, Time Source Setup, Time Source Actual, Time Quality, PTP State, PTP Key
- **DIN Rail Mounted:** Easy to install DIN rail mounted device, with simple connection to the system network via ethernet cable
- **Easy installation and setup:** Setup is simple and straightforward. With access from a standard web browser and simple to use set up tools, you’ll be up and running quickly
CyTime™ Event Manager Connections

Web browser
(device setup, control, and basic monitoring)

Ethernet network

Power Input

Ethernet interface (LAN1)
(LAN2 (Saved For Future Use))

Status Indicators (LED)

Micro SD Card Slot (Saved For Future Use)

RS-232 Ports (Saved For Future Use)
CyTime™ Event Manager Dimensions
Setup and monitor using a standard web browser
Setup : Network

Setup the Event Manager via the embedded web page
Setup : Time

Configure the time settings for the Event Manager including time zone, clock source and DST.
Setup : Auto Discover

Add downstream SERs by auto discovering them via a range of IP addresses
Add downstream SERs by manually entering them or uploading a csv file.
Setup : Message Log

View or export the Event Manager’s log of task performed.
Setup : Admin

Access Event Manager system information, change authentication, upgrade license or export information through the Admin Page.
System Status

See all downstream SERs in a single view!
System Status

Get Summary Status Information for each SER
# Events

- **Sort Events by Column Header**
- **Filter Events to Customize View**
- **Export Data in Current View**
- **Manually Refresh Page**
- **Set Items Per Page**
- **Easily Navigate through pages**

![Events Management Interface](image-url)

<table>
<thead>
<tr>
<th>Date / Time</th>
<th>Device Name</th>
<th>IP Address</th>
<th>Channel</th>
<th>Event Type</th>
<th>Status</th>
<th>Time Quality</th>
<th>Sequence #</th>
<th>Delta Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/05/2019 10:25:07.000</td>
<td>CyTime Event Recorder</td>
<td>192.168.1.99</td>
<td>System Event</td>
<td>DST Start/End Change</td>
<td>--</td>
<td>3:Bad (no sync)</td>
<td>612</td>
<td>0.000</td>
</tr>
<tr>
<td>06/05/2019 10:25:04.716</td>
<td>CyTime Event Recorder</td>
<td>192.168.1.99</td>
<td>System Event</td>
<td>Setup Changed</td>
<td>--</td>
<td>3:Bad (no sync)</td>
<td>608</td>
<td>2.254</td>
</tr>
</tbody>
</table>

*Note: The numbers in the Delta Time column represent the time difference between events.*
Events – Customizable View

Filter the Events Page by:
- Date Range
- Device
- Event Type
- Event Status
- Time Quality
I/O Status

Filter I/O page to customize view
Export I/O status to csv file
Determine the status of each I/O per SER

SER-2408 ONLY: Output relays are distinguished by a dotted outline
Diagnostics

View the Diagnostics information from all downstream SERs or create a customized view using the filtering tool.
Precision Timing for Reliable Power.  Simplified