

# THE ESSENTIAL GUIDE TO SYNCHRONIZED TIME



## The Bottom-Line Benefits and Clock Technology Solutions to Keep your Organization on Time

Without accurate, synchronized time throughout a building or campus...

- Meetings, classes or shifts start and end at different times
- Wages or compensation are disputed
- Critical tasks like surgeries, food preparation or manufacturing processes are tracked inaccurately
- Maintenance staff spends a disproportionate amount of time on clock repairs and adjustments

Your clocks may be impacting your daily operations more than you realize.

**Accurate time is more than a convenience.**

*“Employees didn’t have reliable clocks for calculating shift changes or break times. There were lots of debates about whether an employee was really tardy or not, whether some people were abusing their break times by leaving early and returning late, and whether meetings were starting and ending on time.”*

**DMR Electronics**

# Gain Efficiencies and Cut Costs with Synchronized Time



**Synchronized time is when all of the clocks across a building or campus display the same precise time.**

This means clocks automatically adjust after a power outage or daylight saving time (DST) changes, consequently requiring far less maintenance than typical clocks.

Synchronized time has significant impacts on the staff and operations of an organization:

- Meetings, classes, shifts and break times run more efficiently
- Fewer disputes over time cards, breaks or wages
- More accurate record keeping for warehouses, manufacturers, health care and other industries
- Maintenance crews can focus on other issues
- Maintenance and repair costs are reduced

In this guide, we'll present stories about customers who have adopted synchronized time systems and learn about which of those technology solutions may be best for your organization.

Port 123 is reserved specifically for NTP/SNTP communication.

Learn about Time Server Options [HERE](#)

*"Our meetings flow better because everyone sees the same start and stop times, and we experience better operational efficiencies on the production side as well."*

**Ecolab**

## Accurate Time and the Bottom Line

Synchronized time is more than a convenience. In these actual customer scenarios, clocks that weren't in sync affected productivity, safety and the bottom line.

### Scenario 1: Wasted class time

The school's clock system was not synchronized, which meant that the clocks displayed different times and did not match up with the schedule of the school's bells. Students were often late to class and the school struggled with enforcing its tardy policy because there was no synchronized, standard way to measure time.

### Scenario 2: Inefficient office meetings

The company was using a variety of battery-operated clocks throughout its property, which all displayed slightly different times. This led to employee tardiness at company meetings, complaints about the clocks being out of sync, batteries going bad and extra maintenance time for adjusting the clocks during daylight saving time changes.

### Scenario 3: Inaccurate time cards

Some employees at a manufacturing plant adjusted the shop floor clocks so that they ran fast, and lunch breaks were lasting longer than they should have. This time theft drove the owner to seek an accurate clock system that could not be altered.

### Scenario 4: Inability to track critical activities

The analog master clock system that served the surgery suite was old and not working reliably. In surgery, precise and synchronized time is critical for allowing medical staff to track how long a patient has been under anesthesia or in surgery, and the hospital's maintenance staff was frequently adjusting the clocks to ensure that the time was correct and synchronized. Patient safety was at stake.

### Scenario 5: High repair costs and maintenance time

The clocks at the high school weren't in sync, didn't update for DST and broke down frequently. The maintenance staff was constantly trying to fix the master controller to get the times right, and was buying a lot of parts to fix the clocks. The facilities manager spent time fixing four or five clocks a month, with no end in sight.

*"In such a large facility, it's crucial that all classes start and end on time, and that even the students in the locker rooms know exactly how much time they have to get to class. If people are constantly too late or too early, it impacts the experience and enjoyment of the facility."*

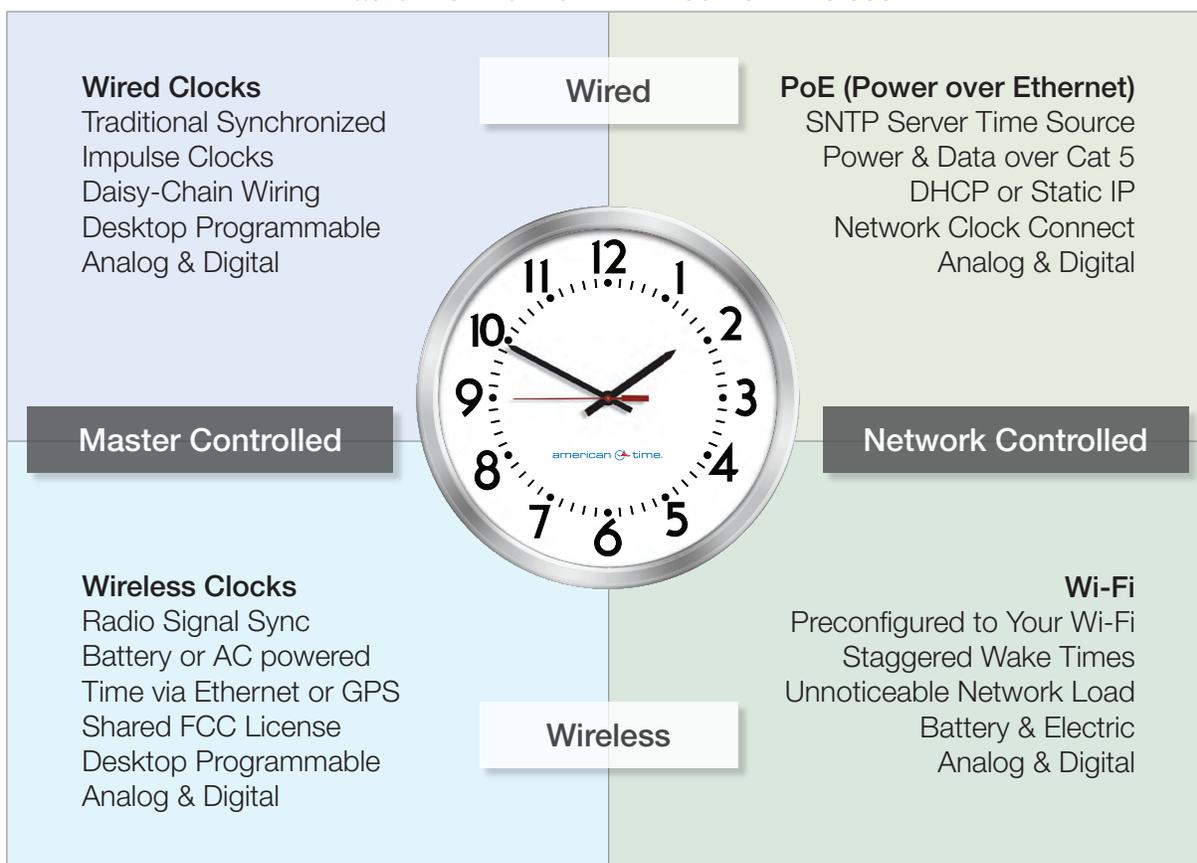
**James Madison University**

# Your Options for Synchronized Time



Whether you have a 10-person office or a campus with buildings a mile apart, we can help you find a clock or complete system that keeps your operations in sync.

## Time Synchronization: Master vs. Network – Wired vs. Wireless



### Wired Clocks & Systems

Modernize existing wired systems, either via an expansion or replacement.

### Wireless Clocks & Systems

Expansions and retrofits; integrates with existing wireless OR wired systems.

### PoE Clocks

Buildings that don't have electrical outlets near desired clock locations.

### Wi-Fi Clocks

Any building or campus with a reliable Wi-Fi signal.

# Complete Wired and Wireless Systems

Both our AllSync IQ® Wired Master Clock System and the SiteSync IQ® Wireless Master Clock System will integrate with your existing clock systems or replace them.



## Wired Clocks



## Wireless Clocks

### AllSync IQ Wired Master Clock System

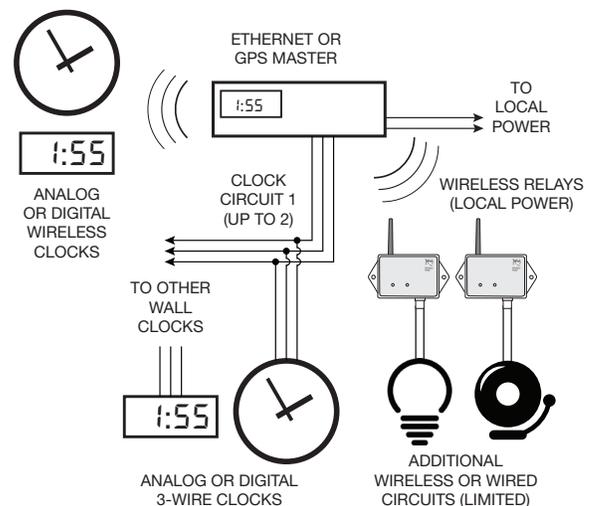
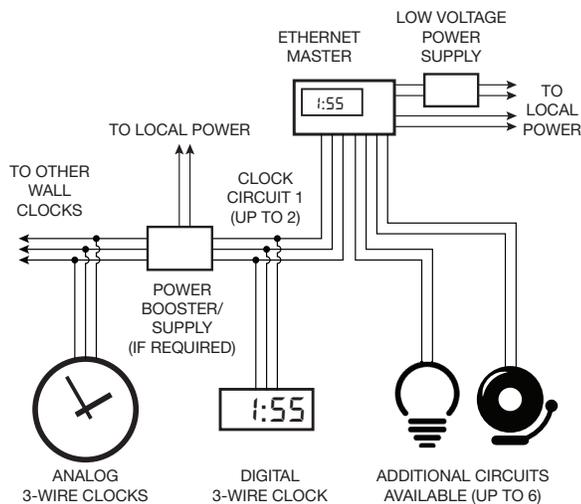
AllSync gives you precision control over your secondary wired clocks and timing systems.

- Works with most major-brand wired clock systems and any new replacement clocks
- Provides synchronized time and control of wired bell signals and electrical circuits
- Automatic DST adjustments

### SiteSync IQ Wireless Clock System

SiteSync IQ seamlessly integrates your new wireless clock system with your existing wired system clocks.

- Works with existing wired and wireless clocks
- Optional signal circuits and wired clock circuits manage portions of your existing systems, including bells, wired clocks, lights and more
- Convenient, remote programming capabilities
- Automatic DST adjustments



[Learn more about wired systems](#)

[Learn more about wireless systems](#)

# IP Network Clocks

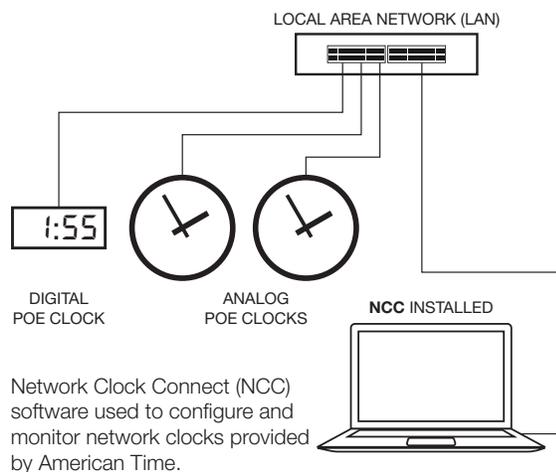
IP network clocks – also known as network clocks, Ethernet clocks or NTP clocks – are some of the most popular choices for synchronized time because they have low installation and operation costs, they display precise time and they eliminate the need for a master clock.



## Power over Ethernet (PoE) Clocks

PoE network clocks draw both power and time updates from your organization's Ethernet connection to display synchronized time.

- Simple infrastructure needs: power and data are communicated over a single Ethernet cable to each clock
- No need for a master clock, AC receptacles or batteries
- Hassle-free installation and maintenance
- Automatic DST updates



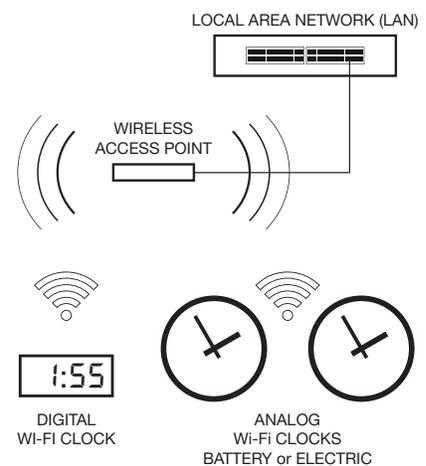
[Learn more about PoE clocks](#)



## Wi-Fi Clocks

Wi-Fi is everywhere, so why not use it to easily and efficiently synchronize your clocks?

- Easy to install and maintain – simply place them anywhere you have a Wi-Fi signal
- No master clocks, wires or license agreements required
- Unnoticeable bandwidth impact
- Option to arrive preconfigured to your network
- Automatic DST adjustments



[Learn more about wi-fi clocks](#)

# EverAlert: A Three-in-One Communications System

In most areas of our lives, communications are getting faster and more effective. Your facility should be no exception. EverAlert delivers faster, clearer, customizable communications and emergency notifications.



How are you managing time, news and emergency alerts in your organization?



If you have multiple vendors and systems for clocks, digital signage, severe weather alerts, fire alarms or lockdown notifications, then you're spending a lot of time and money managing that complexity.

What's more, most of the systems may not communicate with each other, leaving you with an unconnected network that can't meet your daily needs – or during a time of emergency.

EverAlert provides a **single platform and interface** for communicating emergency alerts, routine digital signage and synchronized time. Its graphical displays bolster and extend your existing messaging and emergency notification capabilities.



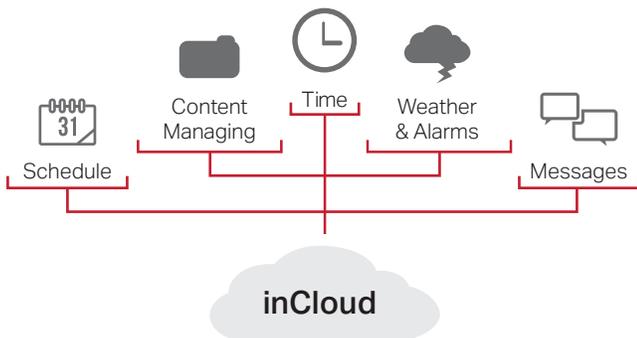
Emergency notification system



Digital signage system



Synchronized clock system



With the choice of wired Ethernet or Wi-Fi connectivity, the 22-inch, high definition EverAlert displays are easy to install wherever 110 VAC is available.

And as a cloud-based solution, you'll always have the latest EverAlert features and updates without the cost and hassle of onsite server maintenance.

*"The fact that EverAlert can serve multiple functions really impressed me, from displaying news and lunch menus to alerts and emergency information...it's really unlimited."*

**Rushford-Peterson Schools**

[Learn more about EverAlert](#)

# Stand-Alone Wall Clocks

Maybe all you need are a few, dependable wall clocks. No problem! We have a variety of battery-powered, electric and digital clocks and styles to choose from.



Whether you have a 10-person office or a campus with buildings a mile apart, we can help you find a clock or complete system that keeps your operations in sync.

## Why American Time?

Time is not a commodity. How you measure it, work by it and live by it depends on the craftsmanship, quality and pride that goes into each timekeeping piece. This is how we think of our work here at American Time.

With more than two million clocks worldwide, thousands of parts and the ability to repair all major clock brands, you can trust us to have the solution. And with a free, hometown support team behind each of our American-made technologies, you can trust us to have the answer. A real person even answers our phone.

**Some may call that old-fashioned. We call it an unwavering commitment to quality, service and support.**

**Don't take our word for it.**

*"It's basically cheaper for me to buy a new American Time clock than to send in our other brand for repair. And for the record, I haven't had an American Time clock that needs repair."*

**School District of Fort Atkinson**

*"Both reps that helped me with my order were extremely helpful and made me feel like my order was the most important thing going on at American Time. Keep up the great work!"*

**EVCO Sound and Electronics**

"In all my contacts with your personnel, there has been one abiding principal exhibited by your staff. That is that ALL your customer service personnel have been the most receptive, knowledgeable, and personable people I've ever dealt with and in my position believe me, I've had to deal with some unpleasant circumstances. Your organization can and should be very proud of your staff. They are outstanding representatives of your company and to be commended for their dedication to outstanding customer support..."

**Southern Arizona VA Healthcare System**