

CONNECT 2022 – Preliminary Schedule *subject to change

Austin, TX – September 12 – 15 – Kimpton Van Zandt

Monday – 09/12

10am – 2pm: Registration Open

3 – 4pm: Opening Remarks/Keynote speaker

- Buddy Coleman, CCO, Clever Devices
- Keynote speaker to be announced

4 – 6pm: Opening Reception at Kimpton Van Zandt

Tuesday – 09/13

7 – 8am: Breakfast

7:50 – 8am:

Housekeeping and introductions

8am - 8:45:

Spotlight Session: How real-time reporting can impact how your agency reacts and your rider's perception

When everyone in your organization has universal access to real-time data you can make quick decisions that impact your riders. Regardless of your role in the organization, when data becomes transparent, many departments benefit.

9am - 9:45

Spotlight Session: Save Millions with Celrado VoIP without Losing Any Communications Functionality

When Community Transit needed to upgrade their expensive Lan-Mobile Radio that provided them with a limited range and high maintenance cost, they realized there had to be another way. That's when they decided to partner with Clever Devices to bring their agency Celrado, our VoIP communication solution that was able to save Community Transit millions without losing any functionality in their communications. During this session, learn precisely how and why Community Transit took this path and the benefits they have seen from it.

During this session, Community Transit will discuss:

- The selection process of Celrado
- The experience working with the Clever Devices team

- The benefits of a VoIP solution
- De's Clever Conversation appearance
- Q&A with De and team following the video

10am - 10:45

Spotlight Session: What to expect when deploying an Electric Vehicle fleet

Agencies around the country are gearing up for an influx of electric vehicles into their fleet.

11am - 11:45

Spotlight Session: The Value of Innovative Solutions on Rider Satisfaction and Retention

Communicating with your passengers is paramount to the success of your service. But riders are now accustomed to having all the information they need about their journey at their fingertips. In order to influence passengers to return time and time again, real-time data needs to be easy to use and readily available.

12 – 1pm Lunch

1pm – 5pm: Demo room open – Meet one-on-one with product experts to discuss any questions you have surrounding your ITS system

Breakout Sessions

1 - 1:40

Track: RTPI and Digital Signage

Onboard Digital Sign Management

CleverVision solution with purpose-built ruggedized displays lets you deliver real-time information and public service announcements along with other video content. CleverVision's Real-Time Status system, CV-RTS, a new addition to our digital information system solution, allows remote verification that your informative and enticing content is shown as expected

Track: Planning and Scheduling

Route Planning and Timetables with MAIOR

Discover the intuitive mapping solution of the MAIOR Suite that utilized WMS overlays and now has the ability for customer defined flex-fields. The timetable module takes advantage of a robust trip building algorithm that automatically creates schedules based on the scheduler's defined parameters and allows for easy comparison

Track: Operations Management

Discover the intricacies of Celrado – our proven VoIP solution

Voice communications provide a lifeline to mobile staff. From mechanical breakdowns, medical emergencies, lost children, civil unrest and natural disasters, voice communications must always be available. In this session, we will take a deep dive into the flexibility that Celrado voice and data communications provide to transit authorities. This session will help you to:

Track: Rail

CleverCAD Rail Features

Rail Operations need tools purpose built to suit their needs. CleverCAD's Rail functionality allows operations to monitor, communicate, and trigger schedule modifications from web-based views all in one place. These items can all be communicated to the public via vehicle communication system, PAVIS system, wayside signage, and mobile applications.

This session will:

- Introduce rail service monitoring via rail line maps.
- Explore how CleverCAD can be used to generate announcements at station

to your passengers on each display. CV-RTS allows remote display and status monitoring, remote software, and configuration deployment, supports interactive actionable insights, initiation of alerts, allows taking remote action when needed, and further supports smooth operation of your digital information system.

between various solutions that are generated.

- Understand the building blocks of Celrado and the configurability allotted by the solution.
- Understand how autonomous switching can maximize the efficiency of your agency regardless of the emergency.

- platforms, onboard the train, and through social media.
- Advise operations on how to make real-time schedule modifications.

Besides monitoring and maintenance, CV-RTS also supports remote delivery of service alerts to your fleet's digital displays.

2 - 2:40

Track: Data and Analytics

CleverMetrix Real-Time Dashboards

When data isn't available in real-time across all departments, it's challenging to make immediate decisions required to provide riders with safe and efficient service. CleverMetrix provides access to universally available real-time data helping your employees make more

Track: Rail + RTPI and Digital Signage

TAPS – Train Arrival Prediction Systems in Rail

Time is our most valuable asset; TAPS helps your passengers manage their time more efficiently by reducing frustrating long wait times at stations. With real-time, accurate arrival predictions and the ability to communicate service

Track: Planning and Scheduling + EVMS

Blocking, Runcutting and Electric Vehicles with MAIOR

Find out about advanced blocking and run-cutting using scheduling algorithms and costing parameters that can lower operating costs and improve the service

Track: Operations Management

GreyHawk Mobile

With many agencies targeting a tablet-based solution for their paratransit fleet, an onboard solution that is both ruggedized and secure is necessary to meet the need of your operators. Clever Devices has collaborated with Samsung to offer GreyHawk Mobile, a purpose-built solution for paratransit. Using

Track: Rail

See Rail + RTPI

Track: EVMS

See Planning and Scheduling + EVMS

informed decisions, while breaking down organizational silos and allowing for cross-department collaboration.

This session will explore:

- What real-time data is available to agencies
- How agencies can monitor their KPIs through an intuitive and customizable dashboard

disruptions in real-time via website notifications, SMS, email, and social media integration, passengers can plan to arrive right on time.

This session will:

- Demonstrate how agencies can use TAPS to increase passenger satisfaction and ridership

provided by your agency. Learn about scheduling electric vehicle blocks based on predictive EV algorithms.

GreyHawk Mobile, agencies will be able to improve operations, help increase on-time performance, and improve customer satisfaction.

This session will help you understand:

- Why we moved away from a traditional MDT to a tablet-based solution
- How GreyHawk Mobile is not just your standard tablet app

3 - 3:40

Track: Data and Analytics

Real-Time and Historical Data

When it comes to decision-making, data plays a critical role. Having the information necessary to make informed decisions is essential in today's ITS ecosystem. Clever Devices has the ability to deliver data in real-time and after the fact. With real-time data an agency can monitor and address incidents as they occur, improving operations and customer satisfaction. On the other hand, historical data allows an agency to uncover ridership trends overtime and make impactful service

Track: Operations Management

The pandemic has been challenging in many ways, but especially when it comes to meeting COVID related and changing ridership demands. In this session, we will take a deep dive into the Disruption Management functions available to understand how each can be utilized to improve your ability to be agile and flexible like never before.

This session will help you to:

- Analyze what service adjustment functions are

Track: Rail

Transforming big data into smart data Simplifying the capture, interpretation, and reporting processes for intelligent CBM

Today's onboard rail systems are not leveraging the full potential of the CBM systems it already has installed on its rolling stock. An enormous amount of data is being generated by a variety of subsystems, but it's often impossible to make sense of that information in meaningful ways. Quite frankly, it's not about data mining, it's about data interpretation and turning that data into meaningful reporting through intuitive user interfaces that that can create maintenance efficiencies and improve overall service.

Track: EVMS

With many agencies targeting an all-electric fleet, a comprehensive solution that analyzes both schedule information and state of charge is necessary to ensure optimal management of your fleet. Through the Clever Devices' Electric Vehicle Management Solution (EVMS) and Yard Management system, agencies will be able to operate their fleet at its highest potential. Join us to see how the two solutions go hand in hand to aid a dispatcher's daily tasks of monitoring and maintaining an electric fleet.

This session will:

- Introduce users to the Clever Devices' EVMS and Yard Management Solutions

improvements. Ultimately, while real-time and historical reporting tools address different concerns, each plays a role in helping you analyze the data your system regularly generates.

This session will uncover:

- Why an agency needs both real-time and historical reporting tools.
- How both CleverMetrix and CleverReports can drive your agency forward

4 - 4:40

Track: Planning and Scheduling

Learn how MAIOR's Performance and Workforce management modules are used to streamline your operational processes in addition to the real time communication with Clever CAD Dispatching and Smart Yard integration modules.

available at your fingertips.

- Understand how these tools can be utilized to maximize the efficiency of your agency.

In this session, we'll explore ideas for streamlining the data coming from your various onboard systems through the use of a common, coherent CBM platform to eliminate the burden of managing different back-office systems.

- Advise agencies on how EVMS can empower dispatchers and operators to self-regulate
- Demonstrate how State of Charge information is utilized to assist a Dispatcher to maintain the electric fleet in the Yard

Wednesday – 09/14

8 – 9am: Breakfast

8:50 – 9am:

Housekeeping and introductions

9am - 9:45

Spotlight Session: Is your agency prepared for a cyber-attack? You may not be as prepared as you think

The increasing threat of cybersecurity attacks has led to a strengthening of information security programs across all industries. The transit industry is no different, but the cyber hygiene of the technology supply chain remains a soft underbelly of many security programs. The RFP process provides an opportunity for a transit agency to dictate information security expectations to their potential technology vendors.

Research conducted by the Mineta Transportation Institute (MTI) has revealed that while 80 per cent of U.S. transit agencies say they feel “prepared” for a cyber-attack, only 60 per cent actually have a cyber-security plan in place.

Where does your agency fall?

10am - 10:45

Spotlight Session: How Disruption Management can enhance your customer's experience and simplify your back-office operations

Agencies of vastly different sizes used disruption management during and following COVID 19 shutdowns to manage their erratic ridership changes. In this session we'll discuss why agencies of all sizes need the flexibility of a disruption management solution to manage the unexpected – from a unprecedented global pandemic to a water main break.

11am - 11:45

Spotlight Session: The Benefits of Yard Management to Your Overall Operations

All activities at a depot affect the readiness of the fleet to deliver scheduled service. And, whether the vehicle needs a repair, or to be put in service, the first and most important step is locating the vehicle in the yard and making sure it pulls out on time.

12 – 1pm Lunch

1pm – 5pm: Demo room open – Meet one-on-one with product experts to discuss any questions you have surrounding your ITS system

Breakout Sessions

1 - 1:40

Track: RTPI and Digital Signage

BusTime

While the riding public begins to return to the workplace, public transportation is crucial to ensure passengers get to their destination safely and on time. BusTime enables agencies to communicate service information with their passengers in real-time. With the inclusion of real-time passenger crowding updates, BusTime provides riders with the information they need to feel safe onboard your system while helping restore ridership post-COVID.

This session will:

- Demonstrate how agencies use BusTime to communicate service disruptions
- Demonstrate how agencies can use BusTime to provide real-time passenger crowding updates to your passengers.

Track: Operations Management

Cybersecurity and your ITS provider

The RFP process provides an opportunity for a transit agency to dictate information security expectations to their potential technology vendors. Yet, it is a process that is often used with varying degrees of success. Some RFP specifications provide little to no mention of cybersecurity, some specifications contain boiler plate language that often does not apply to the system being procured. Further, some specifications over-prescribe security requirements that result in costly and time-consuming project development and deployment schedules.

This presentation will cover how to approach and evaluate the cybersecurity hygiene of your ITS provider. The main takeaways from the presentation will include:

- Does your vendor follow a well-established cybersecurity framework?
- What are your vendor's information security policies? This includes what to look for in their Incident Response, Incident Notification and Quality Management policies. Do these policies cover Corporate as well as Technology Development and Deployment arms of the organization?
- Does your vendor's product development lifecycle incorporate security best practices? For example, training, threat modeling and vulnerability scanning.
- Does your vendor's operations group follow best practices? For example, access control policy and system hardening.

Track: Rail

Determining vehicle readiness to meet morning pull out is a challenge that all agencies share. To mitigate this pain point, SmartYard allows its agencies to locate their vehicles in the depot in real-time, ensure daily service tasks are completed, and monitor vehicle health status. These features combined will enable Yard dispatchers to manage their optimized fleet with ease.

This session will:

- Introduce real time vehicle tracking in the depot with SmartYard.
- Understand how yard personnel can increase efficiency and get the most out of Vehicle Service Tasks.

- Does your vendor hold a third-party information security attestation or certification?
- What information security requirements should be put in an RFP?
- As the customer, what am I responsible for doing with a system that I just procured?

2 - 2:40

Track: Data and Analytics

RideCheck Plus® has been providing Transit Agencies with accurate and powerful ridership reports to optimize their service around actual ridership demands and assisting in NTD reporting requirements. Clever Devices is building the next generation of their ridership solution from the ground up using the latest technologies to create a robust, flexible, and intuitive product.

This session will:

- Introduce users to the next generation of the Clever Devices' ridership solution.
- Advise agencies on how the new solution will allow them to make informed decisions about their ridership and be confident in their NTD reporting.

Track: Planning and Scheduling

CleverCAD and the MAIOR system are fully integrated for real time data transfer. This integration allows the MAIOR users to update the service in CleverCAD during the pick instead of exporting the service. On the other hand, this integration allows for the MAIOR Real Time Optimization Engine (RTOE) to pick up major disruptions that occur during the day of operations in CleverCAD and provide a solution that optimizes the service. The integration also allows for Hours of Service (HOS) validation, where the CleverCAD user is notified whether an assignment of work to an operator is following the rules that were set in the MAIOR system.

Track: EVMS

Are you interesting in adding electric vehicles to your fleet, but worried about how to monitor and manage these vehicles? How will this change impact onboard operations for drivers? This session explores the ways Clever Devices' electric vehicle management is integrated into the core of our solutions, offering effective and seamless management of daily transit operations.

This session will:

- Highlight the importance of electric vehicles and the future of EV in Public Transit
- Explore the various functionalities of Clever Devices' EVMS solution
- Walk through the IVN's onboard interactions with the vehicle and EVMS solution to produce State of Charge and Energy Predictions

3 - 3:40

Track: RTPI and Digital Signage

Wayside signage plays a vital role to be able to communicate real-time updates to passengers at stops, bus shelters, transit centers or on station platforms. Clever Devices offers wayside signage solutions that are designed to fit right into the Clever Devices ecosystem. Using your BusTime® information feed for arrival and service information, our wayside signage empowers you to provide your riders with the information they need to get where they are going.

This session will:

- Advise agencies on Clever Devices wayside signage options
- Demonstrate how agencies are using Clever Devices' wayside signage to communicate real-time information to their passengers

Track: Operations Management

When basic service adjustment functions are just not powerful enough, agencies need stronger tools to accommodate the challenges of the unexpected. Through the Detouring and Added Service functionality, Clever Devices empowers users to do so while using Vehicle and Operator Assignment Modification (VOAM) to make real-time assignment changes.

This session will help you to:

- Explore the detouring options available including detouring across routes and by area.
- Enhance efficiency by automatically creating blocks and trips for new and existing patterns.
- Understand how VOAM enhances the ability to be flexible when faced with the unexpected.

4 - 4:40

Track: Rail

Practical Implementation of Modernization Possibilities, using Modern Technology and Methods on Legacy Rolling Stock

In today's challenging Rail Operational Environment, many authorities are struggling with the inherent problems of aged and/or legacy Rolling Stock in their fleets. This is equipment that still has significant overall service life left (20 years or greater), as a vehicle platform, however, faces significant challenges for obsolescence for direct service support stock, operational infrastructure/compatibility with newer Rolling stock in the respective fleets and ever-increasing passenger expectations in the areas of what has been denoted as "infotainment". This is a problem that is expanding in size and scope for Rolling Stock operators, as technology increases exponentially. This is especially felt in and around vehicles platforms designed and built around the turn of the new century. As these were the first vehicle platforms that relied heavily on integrated electronic technologies.

This presentation will explore the many potential ways in which vehicle platforms can be modernized by re-harvesting select portions of existing sub-systems with newer technologies. In essence making a "reverse and forward compatible" solution to varied modernization problems.

This presentation will also categorize the funding streams and commercial aspects which are required to make a project viable. These funding streams may also be categorized as “novel” approaches/novel streams if these vehicle platforms are utilized as “test beds” for emergent technologies.

6pm – Evening Networking Event

Thursday – 09/15

9 – 10 am: Breakfast

10 – 11am:

Clevolution

Learn about the next generation of Clever Devices solutions and where we plan to take our ITS solutions in the future.

11am: Closing Remarks

Buddy Coleman, CCO