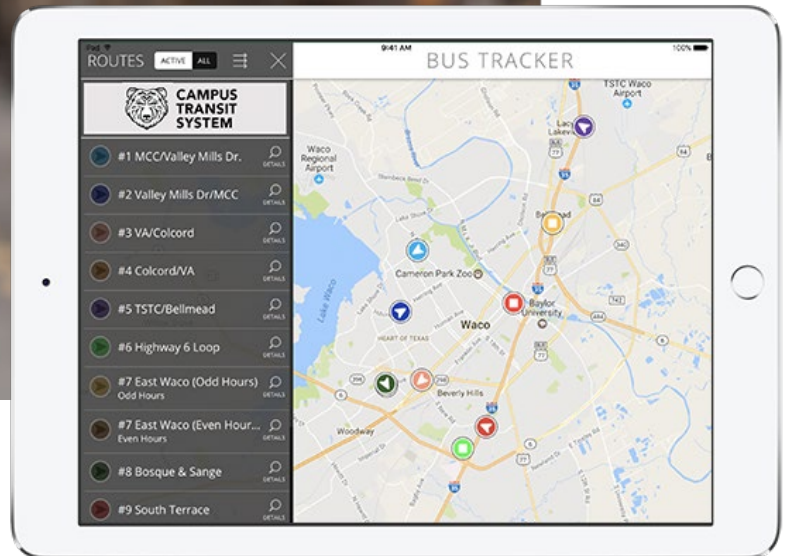


## Transit Scheduling and Management System

Piper Networks' proximity technology provides ideal solutions for universities, municipalities, airports and enterprises seeking to embrace the smart Internet of Things (IoT) world and provide benefits to their employees, students and general public. Our real-time solutions help their transit authorities manage bus scheduling, monitor fleets, reduce congestion, and provide an overall better experience for their ridership pre-travel, during the trip and post-travel. Piper can help create this smart transit system easily and cost-effectively by being the complete enterprise proximity platform that provides hardware, deployment, content management software, and analytics.



- Easy setup and deployment
- No existing infrastructure needed
- Wireless integration
- Web or app-based interface
- Color-coded routes
- Comprehensive administrative maps
- Near Real-Time GPS tracking
- Smartphone notifications
- Voice Alerts
- Accurate time of arrivals
- Passenger counting
- Robust data and reporting
- ADA compliant



### Traveler Benefits

- **Improved Rider Experience** - Take the guesswork out of commuting and help students, employees and other travelers reach their destinations on time.
- **Accurate Arrival Times** - Using interactive maps, riders can view the location of various buses on color-coordinated routes with an app or web link in their smartphones. Riders can also see estimated arrival times so they can better plan when to approach the bus stop or when they're expected to arrive at their destination.
- **Notifications and Alerts** - Using custom branded iOS or Android apps, riders can receive notifications on their smartphones when their bus arrives or alerts if the status of their bus changes. Automated voice notifications can assist hearing or visually impaired travelers too.
- **Mobile Ticketing** - Secure tokenized transactions utilizing secure BLE devices on vehicles to communicate with passenger smartphones & transportation personnel. Combines location, time, & historical data to deliver optimal experience for riders.

### Transit Authority Benefits

- **Live Tracking of Buses** - Administrative maps in an online portal allow for at-a-glance views of all buses and routes in near real-time as the buses transmit their location every few seconds.
- **Passenger Counting** - Automatic 3-D imaging technology counts passengers as they board the bus without the need for driver interaction. This data can be useful for improving operational efficiencies, reducing congestion and managing fleets.
- **Telemetry Data** - Obtain valuable motion data like average speed and acceleration to assess fleet performance. Use that data for improving safety and operational efficiency, or use it for predictive analytics and maintenance.

## Benefits of the Piper Platform

Piper Networks provides cost-effective location awareness solutions using an adaptable, multipurpose platform and proximity hardware, like iBeacons. Piper also develops custom mobile apps for any enterprise need and integrates with existing applications and infrastructure, like Cisco Meraki Access Points, to help customers engage their audience, collect valuable data in real-time and make better business decisions.

- Comprehensive, multipurpose platform that's adaptable to any location-aware enterprise requirement.
- Real-Time asset tracking and data capturing to improve operational efficiencies through actionable insights.
- Easy-to-manage, proximity-based iBeacon messaging for engaging customers, employees & private groups.
- Low cost, customizable devices and applications.
- Advanced SDK's to integrate with existing mobile applications or the ability to build cost effective, custom skinned apps. Open API's to integrate existing or third party software.
- Variety of products including beacons, wearables, environmental sensors & BLE activity sensing Gateways.



## About Piper Networks

Piper Networks is an IoT solutions provider headquartered in San Diego, CA that specializes in advanced proximity technology for enterprise applications in transportation, mobility, healthcare, and higher education. We develop innovative RF solutions for asset and vehicle tracking, safety, data and analytics, and public communication. Contact our sales team to arrange a demonstration of our technology and capabilities.



Website: [www.pipernetworks.com](http://www.pipernetworks.com)  
Email: [contactus@pipernetworks.com](mailto:contactus@pipernetworks.com)  
3655 Nobel Drive, San Diego, CA 92122

San Diego, CA: 619.248.2002  
Chicago, IL: 312.933.3327  
Atlanta, GA: 706.984.2653