



Asset Management - Construction

On-demand asset tracking for construction worksites

Solution Benefits:

- Accessible, on-demand information from construction operations
- Track heavy equipment, trucks, trailers and other assets in real-time
- Improve operations and worksite efficiency with the ability to better manage and utilize assets
- Store statistical information about the asset directly on the tag
- Cost-effective and easy to implement and integrate with other systems and existing processes

The Intelleflex Worksite Management Solution for Construction Operations provides on-demand tracking and visibility for building construction, roadwork and other mobile worksites. Intelleflex solutions improve the coordination between heavy equipment including tractors, pavers, dump and cement trucks, and construction yards and depots. With Intelleflex XC3 Technology™, you can easily and cost-effectively track the movement and location of your construction assets — and optionally people at the worksite — to optimize usage and improve coordination and efficiency. Intelleflex solutions enable you to more effectively manage construction and mobile worksite assets and improve in-field coordination and control.

The Need for On-Demand Visibility

The lack of real-time visibility and limited coordination of construction equipment and delivery trucks results in inefficiencies, idle equipment, wasted time and lost revenue. Crews that wait for equipment and deliveries waste time and money. Coordinating operations at the worksite, as well as between third parties such as asphalt or cement plants, are the key to a successful and profitable operation.

The Challenges

Understanding and coordinating construction operations at a remote worksite presents significant challenges. Inactive pavers waiting for asphalt deliveries, construction crews waiting for cement trucks or materials deliveries, and loaders waiting for dump trucks that are misrouted or delayed results in idled equipment and labor, increasing costs and delaying projects.

Coordinating equipment in the field presents more challenges as trucks and equipment can be supplied from multiple suppliers and locations. Not knowing where trucks and equipment are at any given time, their progress on projects, or when they've left for or are returning from the field impacts productivity and increases costs. Delivery trucks with inaccurate or insufficient loads of raw materials negatively affect efficiency.

Ensuring that the right operator is associated with the right equipment can also create problems and result in delays and wasted labor costs.

The Solution

The Intellex Worksite Solution for Construction Operations is a comprehensive package that provides wireless on-demand visibility of the status of construction assets including tractors, paver, delivery trucks and other heavy equipment. Operations information can be shared with your personnel and third parties that you are working with to improve worksite efficiency every step of the way.

With Intellex, you can more accurately manage worksite assets and gain real-time knowledge about the status of your construction operations. You can have total visibility as to the whereabouts, speed and efficiency of every piece of your equipment. You can help to ensure that the right materials, in the right amounts, are delivered to worksites on-time, reducing delays and optimizing productivity.

Intellex combines the power of our Extended Capability RFID™ system with your existing assets and systems to provide an integrated solution for real-time visibility that improves decision making and asset utilization.

Heavy equipment, vehicles, trailers and containers with Intellex small, discrete RFID tags are automatically tracked as they arrive and depart from the worksite, the yard and supplier depots. Intellex easily deployed readers and antennas, strategically located at key positions, provide instant visibility for each asset's location. In addition, when implemented with personnel badge tags, Intellex can track driver movements and provides accurate associations for both driver and equipment.

Intellex Extended Capability RFID solutions are designed for the most demanding outdoor environments. Tags can be automatically and reliably read at distances in excess of 300 feet and are built to withstand outdoor temperatures, moisture and dust conditions. Tags can be effectively utilized in RF unfriendly conditions involving metals and liquids that are beyond the capabilities of passive RFID.

Intellex tags feature on-board memory, enabling you to store and easily access location, time, efficiency and other statistical data directly on the tag. Data can then be uploaded and integrated with other applications for real-time viewing, analysis and decision making.

Our solutions are designed to integrate with your existing applications and networks, or be used standalone without the need for complex backend systems. Flexible application options make it simple for your field and office personnel to use the system.

XC3 Technology

Intellex solutions are enabled by Intellex XC3 Technology, allowing us to deliver the capability of active RFID-based solutions at a fraction of the cost.

- Based on ISO C3 and EPCglobal C1G2 standards for battery assisted passive RFID
- Deliver read ranges in excess of 300 feet/100 meters
- Operate seamlessly in RF unfriendly environments involving metals and liquids
- Tags include on-board memory for tracking and storing information about the asset or product with multiple levels of security
- Intellex offers handheld and fixed readers, multiple form factor tags and antennas, as well as starter kits for piloting projects

Intellex Products Related to this Solution

- Handheld and fixed readers, and antennas
- Standard, metal, extended temperature, and badge tags

For More Information

To learn more please visit our website or contact us directly. We look forward to hearing from you.

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