Card Reader

Wireless Connection

IoT Gateway

Wired Connection

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IntelliShift and Cypress: Partner Solution Guide

Extending Enterprise-Grade Secure Access Control to the Field

For many companies, a high level of security and access control across the entire organization is critical, from corporate offices and satellite facilities, to vehicles and equipment. Enterprise-grade authentication in the field is often needed to securely identify and verify operators who require access to both vehicles and a variety of physical locations. This also helps organizations meet personnel and asset tracking policy requirements in regulated industries such as utilities, energy, telecom, health care and construction.

Secondary Systems Add Cost, Complexity and Risk

While enterprise organizations with field operations have a demonstrated need for telematics, creating separate back-end directories and reissuing credentials for secure access are costly and time-consuming tasks. Failing to integrate access control systems used in offices and fixed plants with vehicle and asset focused telematics in the field results in management and maintenance complexity, errors with data synchronization, security vulnerabilities and an inflated total cost of ownership.

For any fleet-driven organization in a regulated industry, it is crucial to maintain security, safety and compliance standards while also optimizing field productivity and process efficiency. An integrated solution that combines tools for fleet management with enterprise network and productivity for the field workforce has become table stakes for many highly regulated organizations. Even more ideal is a single authentication and access control system with ID tokens that work across the entire organization, both in offices and facilities as well as mobile assets out in the field.

> "Independent, standalone authentication and asset management systems are not ideal, creating silos of security and operational data that are extremely difficult to manage and track effectively."
>
> **Ryan Wilkinson,
> Chief Technology Officer, IntelliShift**

A Single Fortified Enterprise-to-Field Solution for Operational Excellence

Integrated Secure Access and End-to-End Visibility

To meet these needs, IntelliShift has partnered with Cypress, a leading provider of physical access control, RFID and data collection solutions. This frictionless "bring your own media" system enables an enterprise organization to leverage its current access control database and existing credentials to identify drivers and track fleet operations for end-to-end visibility from offices and buildings to out in the field.

The Business Benefits

- ✔ Easily protect field assets and maintain enterprise-grade security
- ✔ Satisfy personnel and asset tracking policy and compliance requirements
- ✔ Avoid the complications and cost of deploying and managing a secondary system
- ✔ Improve fleet management and field operations capabilities with data-driven insights

## Why Cypress for Single ID Access Control

- ✔ Rugged credential reader at a modest cost-per-asset
- ✔ Connects virtually any enterprise RFID credential technology with IntelliShift's fleet and safety management solution*
- ✔ Easily customizable for rapid development and deployment

*The Intellishift-Cypress solution works with RFID media from many companies including HID Global, Allegion and Farpointe, as well as credential technologies such as HID iClass® and MIFARE DESfire®.

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Why IntelliShift for Connected Vehicle and Asset Operations

- ✅ Out-of-the box applications and business intelligence tools for managing multiple aspects of fleet and safety operations in a single unified platform

- ✅ Robust APIs for connecting the IntelliShift platform to enterprise applications

- ✅ Meets enterprise secure connection requirements with SSL encrypted site-to-site VPN

How it works:
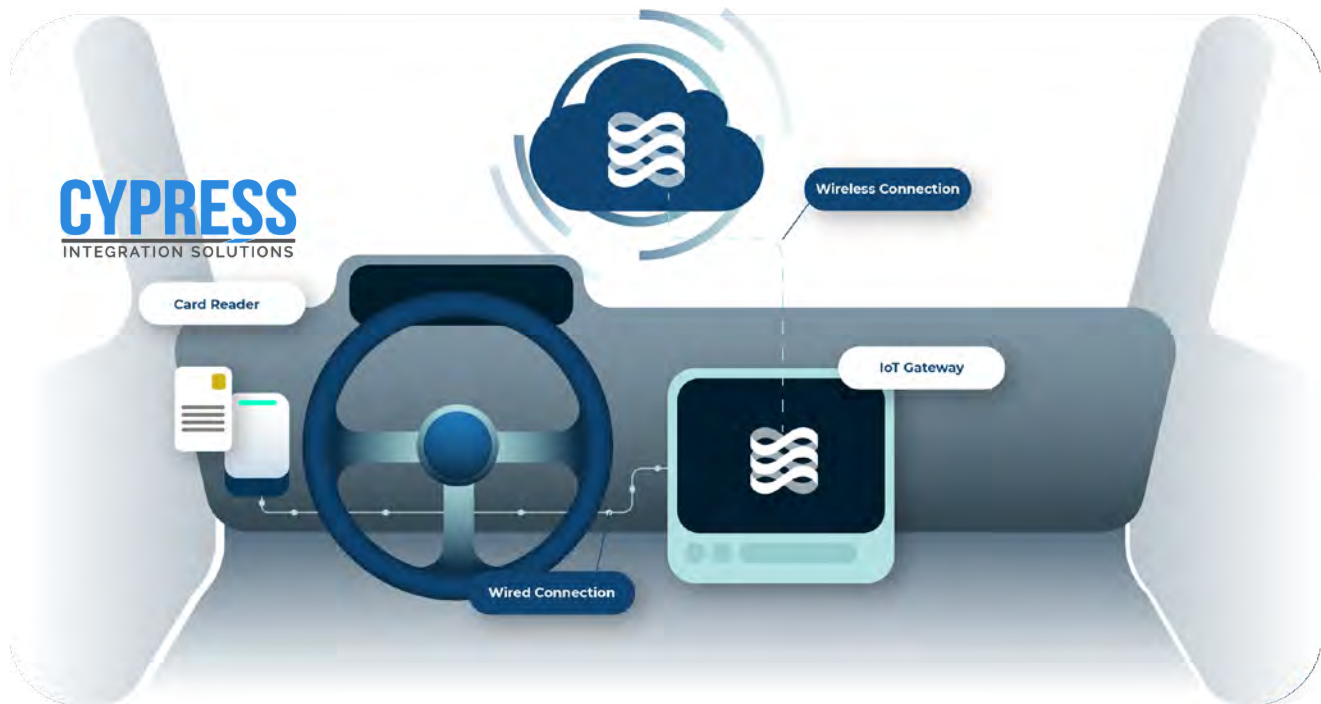
The in-cab IntelliShift IoT gateway establishes a highly secure connection to the enterprise cloud infrastructure so powerful end-to-end fleet and safety management capabilities become possible. When an operator uses an existing badge, ID card or key fob to access systems on the vehicle, a code from the operator's HID or other credential is obtained. The code is used with the enterprise's personnel databases to securely identify the operator and grant access as appropriate. This allows a company to extend enterprise identity and access control to the edge of mobile field and asset operations.

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Case Study:
Large US Energy Company Deploys Integrated IntelliShift-Cypress Solution

With over 7,000 field assets, a large diversified US energy company of 12,000+ employees was searching for a fleet and safety management platform that would use existing corporate IDs to authenticate operators and integrate securely with its enterprise infrastructure. The solution had to meet enterprise security specifications, accommodate different types of corporate issued ID badges and credentials, and be cost-effective to deploy.

In addition to the requirement for extending enterprise-grade access control to the field, the company needed to easily gain insights on asset utilization such as mileage and fuel consumption as well as equipment usage and location history. This helped ensure operators were not being overworked and any safety or other potential compliance issues that might arise could be addressed. Implementing the joint solution was imperative to harness digital field data to reduce costs and accidents, meet Department of Transportation (DoT) regulatory requirements and maximize resources while minimizing paperwork for field operators.

IntelliShift's powerful capabilities, ease of use, API and back-end analytics made it the platform of choice for the utility company. By partnering with Cypress, IntelliShift was able to leverage the utility company's existing enterprise security architecture and launch the system—including outfitting more than 7,000 field assets, vehicles and equipment—with credential readers in less than 3 months.

> **"Working with IntelliShift to integrate fleet operations with existing access control systems has been the kind of challenge we relish,"** said Paul Ahern, president of Cypress Integration Solutions. **"What the utility provider wanted was a perfectly logical request, but it was nearly impossible before this solution."**

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Using established, secure credentials guards against the possibility of someone gaining access through a less-secure, third-party fob to spoof and bypass the system. The in-cab reader provides a simple, interactive experience for operators including audible and visible feedback, making the system easy to use with little to no training. The benefits extend to worker safety, productivity, compliance and accounting.

The energy company is now able to meet DoT regulatory requirements such as tracking hours of service and vehicle inspections. Driver scorecards help reduce accidents and improve service delivery times. Monitoring has been extended to accessories on heavy-duty trucks, such as the bucket lift and alternate power diesel generators, helping determine true work time as well as deliver ROI on fuel savings from the additional power units.

Gain a Higher Level of Secure Operational Efficiency

The integrated IntelliShift-Cypress solution delivers fortified, single ID, secure access control across all assets and locations along with end-to-end visibility and data intelligence to optimize business processes. Reduce costs and accidents, address safety issues, meet regulatory requirements and oversee resource utilization while leveraging existing access credentials.

Contact us today to discuss how to securely integrate your field operations and enterprise systems.

Request an IntelliShift Demo
intellishift.com/request-demo
+1(800)887-0198
contact@intellishift.com

Cypress Integration Solutions
+1(800)807-2977
solutions@cyprx.com

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