

plusID

Gate and vehicle solutions

Keep traffic moving while insuring the identity of drivers and vehicles

As the need for heightened security pervades every corner of society, new challenges have been created for the movement of vehicles through gates. Whether it is a port, a military base, or a logistics center, vehicle traffic is slowed by traditional, manual methods of verifying drivers' identities, and productivity and the flow of commerce are being impacted in the process.

Facility operators need to be able to quickly and reliably verify the identity of drivers and vehicles without imposing solutions that violate privacy, add substantial costs or create additional security risks.

An ideal approach would be a "fast lane" for drivers and vehicles that we "know," enabling them to proceed through checkpoints without stopping. Conventional manual checks would still be used for the smaller population of drivers and vehicles that are not pre-qualified.

While it is possible to install RFID technology on a truck for remote identification of the vehicle, the challenge is how to verify the identity of the driver. A known vehicle with the wrong driver could present as much, or more of a risk than the presence of a completely unknown vehicle.

Until now it has not been possible to reliably verify driver identity without requiring a full stop for either manual inspection of identity credentials or for execution of a biometric verification at a fixed, mounted reader. The Privaris plusID Gate and Vehicle system changes all of that with the world's first, wireless, personal, biometric identity verification solution.

A New Approach

Personal, Mobile Biometrics for Gate and Vehicle Security

- verifies driver identity without requiring vehicles to stop
- matches driver to vehicle
- works with commercially available physical access control systems for gate operation
- works with commercially available solutions for vehicle starting and locking
- cannot be shared, useless if lost or stolen

Personal biometrics

With Privaris plusID, drivers verify their identity by swiping their finger on their own key fob biometric device as they approach the gate. The device compares the driver's live fingerprint to the fingerprint template securely stored inside their device. Upon a match, it wirelessly transmits encrypted credential information (not biometric data) to the gate control system to validate the access rights for the driver and the vehicle.

plusID transmits credential data via 802.15.4, an IEEE standard for wireless communications operating at 2.4Ghz. The data is received by the Privaris Long Range Transceiver, which decrypts the credential information and passes it to an external gate control system, which opens the gate.

The plusID identity verification device supports wireless communication with the transceiver over distances of up to 100m (250 feet). With adequate lane design, vehicles can easily proceed through gates at speeds up to 20 mph.

Compatibility: easy integration with physical access control systems

The Privaris gate system can be configured to output a Weigand data stream – a standard communications signal that is compatible with virtually all access control systems. The Transceiver also supports Ethernet communications and custom protocols.

Vehicle locking and starting

In addition to supporting long range communication to allow “in motion” identity verification for gate access, plusID can be used with commercially available vehicle starting and locking systems that are designed to work with standard card-type access credentials. plusID supports all of the RFID access card formats offered by HID®. plusID provides the assurance of biometric identity verification of the driver when they enter and start the vehicle as well as when they approach vehicle gates.

Protecting privacy and minimizing corporate risk

plusID eliminates the privacy concerns associated with conventional biometric systems. The user's biometric data is never collected or stored in a database. Users enroll directly into their own personal plusID unit where the data is encrypted and securely stored. It is never released or transmitted. Rather than delivering biometric data as an access credential, plusID uses it simply to “unlock” the transmission of standard identity credentials.

This unique approach eliminates employee concerns over the collection of personal data while eliminating the risk and expense of collecting, storing and protecting employees' sensitive personal information.

Combining driver identity verification with vehicle identification

Privaris gate and vehicle solutions can be easily combined with long-range RFID systems used to identify vehicles. RFID tags mounted in the vehicle communicate with receivers mounted in the vehicle travel lane – basically the same technology used in automated toll road systems that read tags on windshields.

Information from the vehicle RFID system is compared with the data from the driver's plusID to verify a match – the resulting combination insures not only the driver's identity, but that they are in their approved vehicle, and provides a gate solution that offers both high security and efficient traffic flow.

Convergence: combining physical and network security

plusID provides organizations the ability to use a single device to satisfy both their physical and logical (network) access needs.

In addition to supporting long-range wireless communications over 802.15.4 for gate access, plusID also works with 125 kHz and 13.56 MHz contactless card readers from HID, Casi, and Indala for access to multiple buildings and facilities in place of standard access cards (such as Prox and iCLASS) – no coding, middleware or wiring required. Further, each plusID device can also be used for logon to computers and networks. It is out-of-the-box compatible with Microsoft Servers, no middleware required, for use in place of passwords and smart cards.

plusID offers a single, convenient solution for secure access – everywhere it is required.