



PrePass Gates Access Management System

Based in Connecticut, Xerox provides business process and IT outsourcing solutions to commercial and government clients. The company employs 140,000 people and supports client operations in 160 countries.

Developed by Xerox on behalf of HELP Inc., PrePass is an intelligent transportation system that relies on information from 90 state sources, primarily Commercial Vehicle Information Exchange Window System data, which is tested using 60 business rules to ensure quality. The system electronically pre-screens transponder-equipped commercial vehicles at weigh stations, port-of-entry sites and agricultural interdiction facilities with an accuracy rate of 99.9 percent. Cleared vehicles proceed at highway speed, promoting greater shipping efficiency and improving highway safety.

With 304 sites in 31 states, PrePass facilitates approximately 4.7 million transactions each month, or more than 90 percent of the nation's electronically pre-cleared commercial vehicle traffic. By enrolling only the safest carriers, the PrePass service gives inspectors more time to focus on unsafe vehicles.

Industry

- Transportation

Products

- Microsoft .NET
- Microsoft SQL Server
- Microsoft Sync Framework
- Neudesic Neuron-ESB
- Windows Communication Foundation

Challenge

Xerox wanted to leverage PrePass.com to develop a gate control access management system that would allow drivers to use existing PrePass transponders to enter and exit controlled-access terminal yards and parking areas, thereby increasing security and efficiency of commercial vehicle staging while reducing operational costs.

Solution

Neudesic created a secure, automated system that uses PrePass.com as a self-service portal to manage the vehicle and trailer access to parking lots, maintenance yards, and other commercial facilities from anywhere in the world, while tracking their entry and departure dates and times

Benefit

- Eliminates costs of manning terminal gates
- Uses existing PrePass transponders
- Enables the tracking and control of assets and increases terminal security
- Allows authorized users to generate reports and perform general administration of system databases
- Streamlines operational support through a single business contact
- Interfaces with existing fleet management software

Using Neudesic Neuron ESB, Microsoft Sync Framework and WCF, PrePass has become a unique software + services solution in our industry, allowing companies to increase efficiencies by leveraging a one-stop-shop to not only bypass weigh stations, but also to enter and exit their yards in a cost effective, fully managed manner, using the same RFID technology that powers our entire PrePass offering."

Steve Young, Technology Manager

Project Highlights

- Xerox wanted to provide PrePass customers with a fully automated, self-managed solution for managing gates at commercial vehicle yards.
- Neudesic and Xerox developed PrePass Gates, which allows users to quickly apply for service and maintain accounts with minimal effort, all from PrePass.com.

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The Challenge

Xerox wanted to extend its newly created PrePass.com self-service platform and develop a gate control access management system that would allow drivers to use existing PrePass transponders to enter and exit controlled-access terminal yards and parking areas.

Xerox envisioned a system that would be fully integrated with and capitalize on PrePass.com's automated capabilities. It was important that all data collected and used by the new system be secure and available by computer to any authorized user with internet access.

The Solution

Xerox had worked closely with Neudesic specialists to develop PrePass.com, the company's unique customer service portal that allows customers to easily manage their accounts, find answers quickly, and directly engage customer service representatives.

Capitalizing on the success of PrePass.com--which uses Neudesic's Neuron-ESB, the only commercially available Enterprise Service Bus built on the Microsoft technology platform--Xerox again teamed with Neudesic to develop PrePass Gates. Users of the totally automated gate management system are given logically-centralized, physically-distributed remote control access of their yards and gates. The system also provides comprehensive reporting functions and essentially uses PrePass.com as a self-service portal for managing the PrePass Gates product.

PrePass.com and other third party and customer systems integrate with PrePass Gates, and all data used and collected by the new system is secure and available to any authorized user with a computer and internet access.

"Leveraging Microsoft's latest technologies, including WCF and Sync Framework, we have created a product that can be operated on site, remotely or independent of connectivity if required," said Steve Young, Xerox technology manager.

The Benefit

PrePass Gates grants vehicles and trailers access to parking lots, maintenance yards, and other commercial vehicle facilities, while tracking their entry and departure dates and times. By using existing PrePass transponders, the system reduces costs and infrastructure; it also eliminates the need to man gates at terminals.

PrePass Gates was a natural extension of PrePass and our service oriented architecture, creating a private cloud-based product that can be marketed and sold either as a service or by using more traditional approaches.

Steve Young, Technology Manager

PrePass Gates interfaces with existing fleet management software, enabling managers to track and control assets and increase security within truck terminals. A hosted enterprise solution allows authorized users to generate reports, perform gate operations and carry out general administration of system databases.

"The PrePass Gates solution not only provides a functional reason for companies to invest but also offers cost savings by enabling central management of multiple geographic locations," said Young.