

Tolling



Electronic Toll Collection



Non-Stop Maximum Revenue

Electronic Toll Collection (ETC) has become a technically feasible and financially attractive alternative to finance and maintain highway construction projects and their ongoing maintenance operations. Beyond replacing cash collections to improve revenue accountability, ETC has evolved to support the digital age with technologies that safeguard toll revenues. It provides an improved patron experience by mobility, safety, convenience and even support for a “greener” world by reducing pollution. ETC is now a necessity and a daily part of many commuters lives as indicated by the popular use in congested urban areas of New York and New Jersey. Demands for faster and greater vehicle throughput technologies are now providing the basis for another tolling evolution. This includes new concepts where toll booths give way to all-electronic non-stop open highway tolling or AET.

- Multi-lane Free-Flow Tolling –Open Road Tolling (ORT).
- Video Tolling
- High Occupancy Toll (HOT) Lanes
- Dynamic Toll Pricing including Congestion Pricing, Vehicle Miles Traveled Pricing options
- Integration with existing toll facilities

We’ve helped the tolling industry evolve with superior business innovations since the mid-1990’s when we designed, built

and integrated some of the first electronic toll systems. We have implemented innovative E-ZPass® ETC operations starting with our first ETC projects in New York, New Jersey, Georgia and California. We’ve provided solutions that address our customer’s business critical mobility problems with an installed base of over 1800 tolling lanes and hosting some of the largest ETC Back Office Systems/ Customer Service Centers in the world. We process over \$2.3 billion in ETC transactions per year on average – that is over 50% of all ETC transactions in the United States and represents over 116.7 million ETC lane transactions. We process more than 48 million video-based violations per year and our highly trained Customer Service Representatives contact customers at an average of over 12 million calls per year. ETC tolling patrons enjoy a variety of options to manage their toll experience including use of our web-based systems which consistently have a 100% uptime performance record.

Solutions for a 24/7 World

The technology behind our ability to rapidly design and deliver superior ETC solutions are in the Xerox® Vector Product Suite. It is the technical foundation for our lane and customer service / back office solutions. It has been proven in hundreds of diverse tolling lane types and operations including multi-lane free-flow open road tolling designs. This product

suite is based on a fully integrated open-computer systems architecture and advanced network-based highly-availability design. It is deployed in ETC lanes and back office systems for non-stop, auditable toll transaction processing. Each application in the product suite can operate standalone as a complete solution, or it can be easily integrated with other vendors’ legacy systems.

Our commitment for the future is based on ensuring that our customers have the solutions they need to intelligently manage their changing operating environment.

Xerox® Vector Product Suite

Intelligent Transportation Solutions

Xerox® Vector Electronic Toll Collection Solution

Our conventional toll lane solution includes the lane controller, lane peripheral devices AVI, AVC, and VES as well as manual toll collection; a plaza level system for store-and-forward of transactions; and support for various plaza workstation configurations.

Xerox® Vector Open Road Tolling Express Solution

Our highway speed lane solution includes the lane controller, lane peripheral devices for AVI, AVC, and VES with enhanced processing capability for optional services such as OCR processing and Video Tolling. It is suitable for Free Flow and Open Road Tolling (ORT) configurations.

Xerox® Vector Maintenance Management Services

Our maintenance online management system (MOMS) incorporates handheld and wireless technologies to provide more efficient maintenance dispatching and repair services with work order tracking, dispatching, and inventory management.

Xerox® Vector Intermodal Services

Our non-toll transaction processing services is built specifically to extend services for parking payments with the capability to collect transactions from parking operators and transmit them to the IAG following the 1.51d file specifications.

Xerox® Vector Customer Service System

Our flagship back-office system provides extensive ETC functionality in account management, violations processing, transponder inventory control, and financial reconciliation and will run on the latest platforms including HP, UNIX, Oracle, and Java.

Xerox® Vector Explorer Module

Our data management enhancement is an add-on module to the core back-office system with data warehousing capabilities that allows authorized users including agency staff and service center representatives to run their own queries and to “mine” the data and explore new reporting and data management opportunities.

Xerox® Vehicle Passenger Detection System

Our HOV/HOT lane enforcement solution. It uses video analytics to identify the number of occupants in a vehicle, at speeds ranging from stop-and-go to 100mph. High accuracy at highway speeds. The high-quality images provided by the system, along with the evidence package enable full automation of violations as legislation allows.

Xerox® License Plate Recognition Solution

Automated license plate recognition is an essential aspect to any all-electronic tolling (AET) or toll collection program. Our solution is able to deliver reliable results under various circumstances, including lighting variation and multiple states/jurisdictions.

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