

# Summit on All-Electronic Tolling, Managed Lanes & Interoperability

*Customers & Collaboration*

## SAN DIEGO, CA

July 20-22, 2014

Hosted by



Transportation Corridor Agencies



## PROGRAM

International Bridge, Tunnel and Turnpike Association

# Summit on All-Electronic Tolling, Managed Lanes & Interoperability

## Customers & Collaboration

Welcome to San Diego and IBTTA's eighth meeting focused on All-Electronic Tolling, Managed Lanes and Interoperability. During prior meetings we've covered AET from engineering, technology, operations and finance perspectives. We are now learning about the initial results—what works and what changes are still needed. We are also learning how AET and Interoperability are closely linked and how both can be leveraged to support expanded deployments of Managed Lanes.

This year, we're focused on questions such as: How can we improve our customer's experiences as they use our toll facilities? And how can the never-ending flood of technology offerings actually help our customers in the AET and managed lanes environment?

Our opening session is a primer to help define, outline and update us all on the status of projects around the world. Joseph Kopser, CEO and Co-Founder of RideScout, is our keynote speaker. His innovative app is among a large group of new technologies that you'll hear about during our product shootout. And speaking of apps, we've launched a brand new IBTTA Meetings app. Scan the QR code in the brochure or download the app in whichever store you use for your smartphone.

## ABOUT OUR HOSTS

### SAN DIEGO ASSOCIATION OF GOVERNMENTS



The 18 cities and county government are SANDAG, the San Diego Association of

Governments. This public agency serves as the forum for regional decision-making. SANDAG builds consensus; makes strategic plans; obtains and allocates resources; plans, engineers, and builds public transportation, and provides information on a broad range of topics pertinent to the region's quality of life. Visit [www.sandag.org](http://www.sandag.org) to learn more.

### TRANSPORTATION CORRIDOR AGENCIES



The Transportation Corridor Agencies (TCA) operate a 51-mile toll road network in Orange County, California

with 270,000 transactions a day and \$240 million in annual toll revenue. The first toll road segment opened in 1993 with open road tolling from day one. TCA developed the FasTrak® brand for electronic toll collection which is now used on all of California's toll roads, toll lanes and toll bridges. TCA is governed by two joint powers authorizes comprised of 18 cities and the County of Orange. The Toll Roads, which include State Routes 73, 133, 241 and 261, are part of the California State Highway System. In January 2014, TCA introduced ExpressAccount™ license plate tolling as an additional toll payment option and ended cash toll collection May 14, 2014. Visit [www.thetollroads.com](http://www.thetollroads.com) to learn more.

### ABOUT IBTTA

The International Bridge, Tunnel and Turnpike Association (IBTTA) is the worldwide association for the owners and operators of toll facilities and the businesses that serve them. Founded in 1932, IBTTA has members in more than 20 countries and on six continents. Through advocacy, thought leadership and education, members are implementing state-of-the-art, innovative user-based transportation financing solutions to address the critical infrastructure challenges of the 21st century.

# MEETING PLANNING GROUP

## Co-Chief Meeting Organizers



Philip Miller  
AECOM



Francis O'Connor  
Atkins N.A.

## Team Leaders

### GENERAL SESSIONS

Kary Witt, Golden Gate Bridge, Highway & Transportation District

### NON-TECHNICAL/OPERATIONS TRACK

Tim Reilly, Central Texas Regional Mobility Authority

### TECHNICAL/ENGINEERING TRACK

Steve Corbin, Georgia State Road & Tollway Authority

## Group Members

Steve Andriuk  
Miami-Dade Expressway Authority

Chris Body  
Kapsch TrafficCom

Randy Brown  
Rummel, Klepper & Kahl, LLP

Michael Davis  
RS&H

JJ Eden  
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Spencer Franklin  
HNTB Corporation

Jim Glasheen  
American Traffic Solutions

Richard Gobeille  
Jacobs Engineering Group

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Cambria Solutions

Samuel Johnson  
San Diego Association of Governments

Tom Knuckey  
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David Kristick  
E-470 Public Highway Authority

Catherine Larson  
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David Machamer  
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David Pope  
Washington State Department of Transportation

Robert Redding  
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San Diego Association of Governments

Dick Schnacke  
TransCore, Inc.

Scott Shepard  
Cambria Solutions

Charles Stracciolini  
Delaware River Joint Toll Bridge Commission

Jason Weinstein  
Bay Area Toll Authority, Metropolitan Transportation Commission

Jeff Weiss  
Traffic Technologies, Inc.

Alan Williamson  
Pennsylvania Turnpike Commission

# FAST FACTS

## LOCATION

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**COMPETING EVENTS:** It is against IBTTA policy for other organizations to schedule events or meetings during the program.

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**THEMATIC REPORT:** A written thematic report, which summarizes the meeting, will be posted on IBTTA's website following the meeting.

# AGENDA

## FRIDAY JULY 18, 2014

10:00am – 4:00pm

2015 Conference Planning Meeting *(Cobalt 500)*

## SATURDAY JULY 19, 2014

8:00am – 5:00pm

Interoperability Steering and Sub-Committee Meetings

## SUNDAY JULY 20, 2014

9:00am – 5:30pm

REGISTRATION *(Indigo West Foyer)*

8:00am – 1:00pm

EXHIBITOR SET-UP *(Indigo Exhibit Hall)*

10:00am – 11:30am

VIRTUAL TECHNICAL TOUR *(Indigo Ballroom)*  
Transportation Corridor Agencies

1:00pm – 5:30pm

GENERAL SESSION *(Indigo Ballroom)*

1:00pm – 1:15pm

### Opening Remarks

Patrick Jones, Executive Director & CEO, International Bridge, Tunnel & Turnpike Association, Washington, DC

Mike Heiligenstein, CEO, Central Texas Regional Mobility Authority, Austin, TX and President, IBTTA

Jack Dale, Chairman, SANDAG Board of Directors and Council Member, City of Santee, Santee, CA

Michael Kraman, Acting CEO, Transportation Corridor Agencies, Irvine, CA

1:15pm – 2:30pm

### Status Report on AET, Interoperability and Managed Lanes

MODERATOR: Philip Miller, P.E., Associate Vice President, AECOM, Orlando, FL

### Definitions & Data

Steve Morello, Senior Partner, D'Artagnan Consulting LLP, Seattle, WA and Michael Catolico, General Manager, Performance Measurement, Illinois Tollway, Downers Grove, IL

### Regional Interoperability

Mike King, Secretary, Kansas Department of Transportation and Director, Kansas Turnpike Authority, Wichita, KS

### Schedule, Process and Subcommittee Work – The Path to October 2016

David Kristick, Deputy Executive Director and Director of Operations, E-470 Public Highway Authority, Aurora, CO

### Alliance for Toll Interoperability (ATI)

David Machamer, Director of Toll Operations, Oklahoma Turnpike Authority, Oklahoma City, OK and Martin Stone, Ph.D., AICP, General Manager, Egis Projects, Orlando, FL

### International Interoperability

Emanuela Stocchi, International Affairs, AISCAT, Rome, Italy and International Vice President, IBTTA and Malika Seddi, Director of International Affairs, ASFA, Paris, France

2:30pm – 3:00pm

### Keynote Innovation Speaker

Joseph Kopser, CEO & Co-Founder, RideScout™, Austin, TX (see page 8 for details)

3:00pm – 3:30pm

### Vendor Shoot Out!

MODERATOR: Francis O'Connor, National Director, Tolls, Atkins N.A., Edison, NJ

Participants include:

3M	GeoToll	Pay Ur Toll!
Accenture	Kapsch TrafficCom	Schneider Electric
BancPass	Metropia	TransCore
Elan Financial Services	MSB	Xerox

3:30pm – 4:00pm

REFRESHMENT BREAK WITH EXHIBITS *(Indigo Exhibit Hall)*



4:00pm – 5:30pm

**GENERAL SESSION**

*(Indigo Ballroom)*

**Is California Dreaming? No Way!**

**MODERATOR:** Greg Hulsizer, Vice President, Cambria Solutions, Sacramento, CA

**Make Every Day “Columbus Day” in the San Francisco Bay Area**

Andrew Fremier, Deputy Executive Director, Bay Area Toll Authority, Metropolitan Transportation Commission, Oakland, CA

Gary Gallegos, Executive Director, San Diego Association of Governments, San Diego, CA

Michael Kraman, Acting CEO, Transportation Corridor Agencies, Irvine, CA

Arthur Leahy, Chief Executive Officer, Los Angeles County Metropolitan Transportation Authority, Orange, CA

Anne Mayer, Executive Director, Riverside County Transportation Commission, Riverside, CA

Kia Mortazavi, Executive Director, Planning Division, Orange County Transportation Authority, Orange, CA

Denis Mulligan, General Manager/CEO, Golden Gate Bridge, Highway & Transportation District, San Francisco, CA

5:30pm – 7:00pm

**RECEPTION WITH EXHIBITS**

*(Indigo Exhibit Hall)*

**MONDAY JULY 21, 2014**

7:00am – 5:00pm

**REGISTRATION**

*(Indigo West Foyer)*

7:00am – 8:30am

**BREAKFAST WITH EXHIBITS**

*(Indigo Exhibit Hall)*

8:30am – 10:00am

**GENERAL SESSION**

*(Indigo Ballroom)*

**Mega Projects: Changing the Face of User-Financed Transportation**

**MODERATOR:** Richard “Trey” Baker, Assistant Research Scientist, Texas A&M Transportation Institute, Austin, TX

**Expanding Interoperability in the South: Programs & Technology**

Diane Gutierrez-Scaccetti, Executive Director, Florida’s Turnpike Enterprise, Orlando, FL

**Freeway to Tollway: The Role of Government in Delivering a Megaproject**

Jonathon Hart, Project Manager, CDM Smith, New Haven, CT

David Talley, Innovative Finance Manager, Kentucky Transportation Cabinet, Frankfort, KY

Don Bell, Senior Consultant, Massachusetts Department of Transportation, New Windsor, NY

Juliá Monso, Vice President, Toll Operations, Cintra, Austin, TX

10:00am – 10:30am

**REFRESHMENT BREAK WITH EXHIBITS**

*(Indigo Exhibit Hall)*

10:30am – Noon

**BREAKOUT SESSIONS**

**TECHNICAL/ENGINEERING**

*(Indigo Ballroom)*

**Security and Privacy: Is Tolling the Next “TARGET”?**

**MODERATOR:** Tom Knuckey, P.E., Group Director, National Tolls Technology Group, Atkins N.A., Orlando, FL

**Transponder Security Issues in the Post-Target World**

Kelly Gravelle, EVP, Chief Technical Officer, TransCore, Inc., San Diego, CA

**Identifying, Designing and Managing your NETWORK Security Threats**

Donovan Young, Director of Information Technology, State Road & Tollway Authority, Atlanta, GA

**Data Security and Electronic Tolling: Risks, Costs & Opportunities**

Malcolm Wells, Partners Development Director, ATScld (ETAN Industries), Dallas, TX

**PwnWars**

Trevor Hearn, Chief Technician, Wave Sciences Corporation, Charleston, SC

**NON-TECHNICAL/OPERATIONS**

*(Indigo 204)*

**The Good, the Bad and the Ugly: How AET Affects Your Customer and Your Employees**

**MODERATOR:** Jennifer Frankl, Project Consultant, Traffic Technologies, Inc., San Francisco, CA

**Tapping into Your Data: How AET Can Help You Understand Your Customers**

Max Logan, Director, Communications & Marketing, Transportation Investment Corporation, Coquitlam, British Columbia, Canada

**Responding to the Critics When Things Get Ugly on the Inside**

Rachel Bell, Marketing and Communications Director, Kansas Turnpike Authority, Wichita, KS

**Listen. Learn. Improve: Embrace the Flaws and Evolve Your Business for the Better**

Jessica Carson, Marketing and Communications Manager, E-470 Public Highway Authority, Aurora, CO

Noon – 1:30pm

**LUNCH WITH EXHIBITS**

*(Indigo Exhibit Hall)*

1:30pm – 3:00pm

**BREAKOUT SESSIONS**

**TECHNICAL/ENGINEERING**

*(Indigo Ballroom)*

**The Emergence of ITS into Priced Managed Lanes**

**MODERATOR:** Jim Barbosa, Associate Director, Vice President, IBI Group, Miami, FL

**Emergence of ITS in Priced Managed Lanes**

Jennifer Tsien, Senior Project Manager, Atkins N.A., Ocoee, FL

**Managed Lanes: Convergence of ITS and ETC**

Daniel Toohey, Vice President, Northeast Sales and General Manager, E-ZPass Group Contract, Kapsch TrafficCom, Wilmington, DE

**Challenges of Transitioning to a Two-Mode Transponder**

Alexandra Atchison, Supervising Transportation Engineer, Parsons Brinckerhoff, Seattle, WA

# AGENDA

## NON-TECHNICAL/OPERATIONS

(Indigo 204)

### State/Regional/National Interoperability

**MODERATOR:** Diane Gutierrez-Scaccetti, Executive Director, Florida's Turnpike Enterprise, Orlando, FL

#### How E-ZPass® Achieved Success in Regional Interoperability

**Tom Gugel**, Director, E-ZPass Operations, Maryland Transportation Authority, Baltimore, MD

#### IBTTA Nationwide Interoperability Committee: A Progress Report

**David Kristick**, Deputy Executive Director and Director of Operations, E-470 Public Highway Authority, Aurora, CO

**Tim Reilly**, Director of Operations, CTRMA, Austin, TX

**Rick Carrier**, Toll Systems Consultant, Traffic Technologies, Inc., San Francisco, CA

3:00pm – 3:30pm

## REFRESHMENT BREAK WITH EXHIBITS

(Indigo Exhibit Hall)

3:30pm – 5:00pm

## BREAKOUT SESSIONS

### TECHNICAL/ENGINEERING

(Indigo Ballroom)

#### Sorting Out the Options: The Technologies That Drive Interoperability

**MODERATOR:** Robert Redding, Senior Director, New Toll Initiatives, MTA Bridges and Tunnels, New York, NY

#### Multi-Protocol Tags and Readers: A Proven Technology, A Market Solution

**Shane Smith**, Senior Vice President, Marketing, TransCore, Inc., Nashville, TN

#### An 11,000-Mile Test of National Interoperability

**Glenn Deitiker**, President, BancPass, Austin, TX

#### Toll Interoperability: Benefits, Models and Solutions

**Kinjal Munshi**, Project Manager, sanef its, Port Washington, NY

#### Moving Towards National ETC Interoperability in Mexico, One Step at a Time

**Bernardo Ortiz**, General Manager, Mexico, IBI Group, Mexico City, Mexico

#### An Approach to the Convergence of Transit and Toll Payments

**Koorosh Olyai**, Senior Principal, Stantec, Dallas, TX

## NON-TECHNICAL/OPERATIONS

(Indigo 204)

### From Point A to Point B: Building a Seamless Customer Experience with Managed Lanes

**MODERATOR:** Mike Davis, P.E., National Tolls Market Leader, RS&H, Orlando, FL

#### Enhance Customer Relations During Express Lane Construction

**Steve Pustelnyk**, Director of Community Relations, MoPac Improvement Project, Central Texas Regional Mobility Authority, Austin, TX

#### What's Working, What's Not?

**Samuel Johnson**, Director of Operations and Tolling, San Diego Association of Governments, San Diego, CA

**Patty Michaud**, Communications & Marketing Manager, Washington State Department of Transportation, Seattle, WA

**Terry Haukom**, Architect, Minnesota Department of Transportation, Roseville, MN

6:00pm – 10:00pm

## EVENING NETWORKING EVENT

(Bayfront Park)

(see page 8 for details)

TUESDAY JULY 22, 2014

7:00am – 2:00pm

## REGISTRATION

(Indigo West Foyer)

7:00am – 8:30am

## BREAKFAST WITH EXHIBITS

(Indigo Exhibit Hall)

8:30am – 10:00am

## BREAKOUT SESSIONS

### TECHNICAL/ENGINEERING

(Indigo Ballroom)

#### Optimizing AET: Using Technology to Boost Revenues and Cut Costs

**MODERATOR:** Randy Brown, Senior Manager, Toll Facilities, RK&K, Baltimore, MD

#### Advances in License Plate Recognition

**John Mike**, Vice President of Strategic Business Development, Perceptics, Knoxville, TN

#### AET: The BATA Experience

**Andrew Fremier, P.E.**, Deputy Executive Director, Bay Area Toll Authority, Metropolitan Transportation Commission, Oakland, CA

#### AET's Influence on Interoperability, Enforcement & Customer Service

**Mark Cantelli**, Vice President & Chief Technology Officer, TSS, Xerox, Germantown, MD

#### A Focus on Images for AET

**Ging Ging Fernandez**, Transportation Consultant, Traffic Technologies, Inc., Waimanalo, HI



**Importance of Transaction Reconciliation and the Impact of National Interoperability**

Raymon Lange, Senior Software Manager, ETC Systems, Schneider Electric, Austin, TX

**NON-TECHNICAL/OPERATIONS** *(Indigo 204)*  
**Keeping Up With Changing Customer Behavior**

**MODERATOR:** Jennifer Mennucci, Director of Budget & Electronic Revenue, Golden Gate Bridge, Highway & Transportation District, San Francisco, CA

**Smartphone & Tolling: ETC as a “Mega-App” and Implications for the Industry**

Timothy McGuckin, CEO, GeoToll, Inc., Plantation, FL

**In the Context of AET, What do we Really Mean by “Customer”?**

Phil Silver, Director Strategic Initiatives, Cubic Transportation Systems, San Diego, CA

**How to Convert Payment Obligation to Value Added Service?**

Zoltán Varga, General Manager, Toll Service PLC, Budapest, Hungary

**Assisting the Under Banked & Casual Driver**

Will Powers, Senior Product Manager, Elan Financial Services, Raleigh, NC

**10:00am – 10:30am**

**REFRESHMENT BREAK WITH EXHIBITS** *(Indigo Exhibit Hall)*

**10:30am – Noon**

**GENERAL SESSION** *(Indigo Ballroom)*  
**Customers First: Return On Investment from the Customer and Agency Perspective**

**MODERATOR:** Patrick Jones, Executive Director & CEO, IBTTA, Washington, DC

Christopher Tomlinson, Executive Director, State Road & Tollway Authority, Atlanta, GA

PJ Wilkins, Executive Director, E-ZPass Group, Wilmington, DE

Gerry Carrigan, CEO/Executive Director, North Texas Tollway Authority, Plano, TX

Nic Barr, Vice President, Operations, Transurban, Alexandria, VA

Debora Rivera, P.E., Director of Transportation Operations, Florida Department of Transportation, District Six, Miami, FL

**Noon – 12:30pm**

**SUMMIT WRAP-UP** *(Indigo Ballroom)*

Kary Witt, Bridge Manager, Golden Gate Bridge, Highway & Transportation District, San Francisco, CA

Tim Reilly, Director of Operations, Central Texas Regional Mobility Authority, Austin, TX

Steve Corbin, Director of Operations, State Road & Tollway Authority, Atlanta, GA

**12:30pm – 2:00pm**

**LUNCH WITH EXHIBITS** *(Indigo Exhibit Hall)*

**2:00pm – 5:00pm**

**ATI ROUNDTABLE MEETINGS** *(Indigo 204)*



**5:00pm**

**ATI EVENING RECEPTION** *(Indigo Terrace)*



## TOURS & EVENTS

### VIRTUAL TECHNICAL TOUR

TRANSPORTATION CORRIDOR AGENCIES

Sunday, July 20, 2014

10:00am – 11:30am

Location: Indigo Ballroom

Included in registration fee



### EVENING NETWORKING EVENT

HILTON BAYFRONT PARK

Monday, July 21, 2014

6:00pm – 10:00pm

Included in registration fee

Dress is resort casual.

Sponsored by:



### KEYNOTE INNOVATION SPEAKER

JOSEPH KOPSER, CEO & CO-FOUNDER



Sunday, July 20, 2014

2:30pm – 3:00pm

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## EXHIBITORS

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BancPass leads as an innovator by providing the Toll Processors and Consumers direct access to Electronic Payment Services technologies to increase efficiency and convenience in Toll Charge processing. BancPass leverages online payment platforms, existing retail and banking outlets, and secure financial transaction services to provide consumers with a broad array of payment options for easy toll road access. It provides toll road authorities with an ideal means of servicing transactions through existing, secure financial networks that lowers costs, and provides new partners in the banking and retail sectors, with incentives to expand services for toll road users. [www.bancpass.com](http://www.bancpass.com)



Business Ink delivers millions of customer statements, invoices, violations, and other communications every month. BI's fully redundant production facilities combine the latest technology with our many proprietary processes. The result is a fully integrated print and electronic solution that strengthens the vital bond between you and your customers. Stop by our booth and visit with Reid Kuhn and Tom Oliva. Over the last 20 years, Reid has managed the document delivery programs for several of the largest Toll Authorities and photo enforcement programs in the United States. Tom has been President and COO of both Cenveo and Moore Wallace Inc. Business Ink is a certified HUB/WBE business serving Fortune 500, middle market, and government programs that require 100% accountability. Communications you can count on. [www.BI-Company.com](http://www.BI-Company.com)



Cubic Transportation Systems, Inc., is a leading integrator of information technology, services and revenue management for intelligent travel solutions. Cubic delivers a full range of integrated solutions that help transport and other mobility operators to develop and optimize their operations and services. We support their customers by helping them choose the smartest and easiest ways to travel and pay through the creation and management of one universal transportation account that links all of their travel modes. [www.cts.cubic.com](http://www.cts.cubic.com)

## EXHIBITORS



ETAN Industries develops customized business processes targeted at the bridge, tunnel and toll authority. By combining award-winning contact center services with optimized back-office operations, we have created a catalog of BPO products designed specifically for the toll industry. We provision our experience to identify opportunities to enhance efficiency, and to determine the best solutions to help our clients improve work-flow. From building leading-edge technology into billing and account replenishment, to applying advanced payment methodologies to minimize delinquencies—ETAN is focused on helping our clients operate more effectively, more efficiently and more economically—all without sacrificing customer service. [www.etanindustries.com](http://www.etanindustries.com)



Faneuil is highly regarded for its customer care support to transportation authorities in multiple states, providing exemplary service delivery in toll operations customer service centers for both front and back office operations for electronic toll operations, manual toll collections, and violations processing. A nationally recognized leader in automated service delivery, particularly in complex, highly regulated environments in which precision and mastery of guidelines are of critical importance, the company provides outsourced business processing solutions for an extensive client portfolio that includes both commercial and government entities. Utilizing advanced applications and a team of more than 3,600 service professionals, Faneuil delivers broad customer care support to several diverse industries ranging from transportation, utilities, government services, and healthcare. Faneuil is headquartered in Hampton, Virginia. [www.faneuil.com](http://www.faneuil.com)



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*See the possibilities* JAI is a world leader in high-performance vehicle imaging technologies targeting the specific needs of roadway operators and transit authority executives. JAI's advanced lane hardware and software enables quick and accurate identification of vehicles for tolling, red light enforcement, speed/parking control, congestion charging, homeland security, and a wide range of other applications. Products support image capture of high-speed vehicles (0-200 MPH), license plate reading, vehicle fingerprinting, and more. [www.jai.com](http://www.jai.com)



Kapsch TrafficCom is a leading global provider of intelligent transportation systems (ITS) and offers solutions across our customers' entire value chain – from single products and components, to fully integrated turnkey systems and solutions in the applications of electronic toll collection, commercial vehicle operations, and highway traffic management. Kapsch TrafficCom has the knowledge, experience and proven track record to successfully design, build, and operate electronic toll collection (ETC) systems and has implemented 20 complete systems around the world. With references in 44 countries and roughly 85 million on-board units delivered and more than 18,000 lanes equipped, Kapsch TrafficCom services a significant share of the ITS global marketplace. The company is headquartered in Vienna, Austria with North American headquarters in McLean, Virginia and offices throughout the United States, Canada and Mexico. [www.kapsch.net](http://www.kapsch.net)



Pay Toll-O – A nationwide toll payment application allowing users to seamlessly pay for tolls directly from their mobile device by integrating with All Electronic Tolling infrastructure. Pay Toll-O standalone app uses Geo Location to send users Push Notification as they approach tolls on their navigation screen and adding the ability to pay for tolls directly from their devices in safe and timely manner. Pay Toll-O secured database powered by Google App Engine, minimizes the costs of license plate look-ups and invoice processing system for toll authorities and DMV. With up to date user information and quick payment processing toll authorities can receive payments instantly from users registered in any state. [www.paytollo.com](http://www.paytollo.com)



Schneider Electric's SmartMobility Tolling™ systems provide the most accurate, reliable system in the market, independently audited, annually. Our open-architecture approach to system design and development uses off-the-shelf hardware and non-proprietary software wherever possible, to increase system availability, throughput, and provide customers the flexibility they desire. Our product and solutions suite includes Open Road Tolling (ORT) and All Electronic Tolling (AET) solutions. Our Remote Operations and Maintenance System (ROMS) is the pulse of your system and provides a Real-Time monitoring solution for all system sensors and components, including database monitoring and external interfaces. Schneider Electric offers 40 years of proven experience in developing, deploying and supporting complex transportation management solutions in Europe, North and South America and the Middle East. We offer demonstrated success managing some of the world's most complex and congested markets. [tolling.telvent.com/ibtta](http://tolling.telvent.com/ibtta)



*Sensor Intelligence.* From classifying vehicles according to type, length and size to detecting hot spots on overheated vehicles, SICK solutions help maintain a consistent traffic flow. Tracking vehicles in intersections or monitoring dangerous traffic conditions is possible due to the technology from SICK. Laser-based solutions designed to withstand harsh outdoor environments are easy to setup while time-of-flight technology solutions ensure maximum application reliability. [www.sickusa.com](http://www.sickusa.com)



STAR RFID & SYSTEMS GROUP is a provider of RFID hardware, tag and services, specializing in UHF RFID-enabled tolling, vehicle identification and supply chain management applications. Working through an extensive network of value added resellers and systems integrators, STAR provides a wide range of RFID hardware, professional consulting services and technical support worldwide. STAR has vast experience in using ISO18000-6C tags for vehicle applications such as e-tolling, electronic vehicle registration and parking and access control etc. [www.star-int.net](http://www.star-int.net) or [www.star-rfid.com](http://www.star-rfid.com)

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