



BSMART Internet of Thing Solutions (b'ITS), designed on a high performance and versatile proprietary BSMART Access Terminal (b'AT) architecture and BSMART Management Console (b'MC) software platform, provides a wireless communications and positioning system designed for the collection and dissemination of data, with feasible applications including:

- Commercial vehicles for in-transit visibility, routine automation, fraud prevention as well as goods and vehicle safety
- Private vehicles for in-vehicle information services, emergency assistance, security and safety, navigation and entertainment needs.
- Public vehicles Telematics for driver behavior monitoring as well as maintenance cost control
- Institutional vehicles Telematics for fleet maintenance reminder and validation as well as driver behavior monitoring.

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www.bsmart-solutions.com

BSMART Service Delivery Offering

Research & Consultancy



BSMART is a leading independent provider of market research and consultancy in the Global Telematics Services Industry.

Design & Development



BSMART focused on technology and development for more than 20 years on our core strengths in our business.

Implementation & Training



With over 100 Developers to provide the best project designs, the resources and the expertise to make your Telematics Services business a success.

Operation & Optimization



Project Management Plan (PMP). Business Operations Management Methodology. Strategic Business Planning Methodology. Business Process Design Methodology.

Support & Maintenance



A complete outsourcing model bundled with all Hardware and Software Infrastructures, Support, Maintenance & Upgrade Provision.

Awards, Recognitions, Rewards, Quality Assurance & Certification

Awards

- 2020 URA RECTS contract extension
- 2020 launch of RECDTS Phase 1
- 2020 Winner of LATRA VTS maintenance
- 2020 Winner of APAD PMHS maintenance
- 2019 Awarded Frost & Sullivan Best Practice Cargo Tracking
- 2019 Winner of KRA RECTS Phase 2
- 2019 Implementation of iCTS Phase 3
- 2019 Implementation of RECTS Extension DRC
- 2019 Frost and Sullivan Best Practices Award - Malaysia Cargo Tracking System Provider of the Year
- 2018 Implementation of iCTS Phase 2
- 2017 Implementation of iCTS Pilot
- 2017 SUMATRA VTS device
- 2016 Winner of URA RECTS
- 2016 Winner of SUMATRA VTS
- 2013 Winner of URA ECTS
- 2013 Winner of SPAD PMHS
- 2010 MSC Malaysia APICTA - Best e-Logistics Award
- 2010 APICTA - Best e-Logistics Merit Award

- Member of ARTIFICIAL INTELLIGENCE FOR SMEs (AI4S)
- 2009 Winner of Deloitte Technology Fast 500 Asia Pacific Program
- 2009 Top 2 Nominees of Ernst & Young Technology Entrepreneur
- 2008 Winner of Deloitte Technology Fast 500 Asia Pacific Program
- 2008 MSC Malaysia APICTA - Best e-Logistics Award
- 2007 Business of The Year Award - Emerging Company
- 2006 Winner of Malaysia Good Design Mark Award
- 2005 Winner of Merit Award for Best Young Asian Supply Chain Solution Provider Award for SCM Logistics Excellence Awards
- 2005 MSC Malaysia APICTA - Best Communication Application
- 2005 IPTA R&D expo competition Gold Medal Award
- 2005 Gold Medal for British Invention of International Award

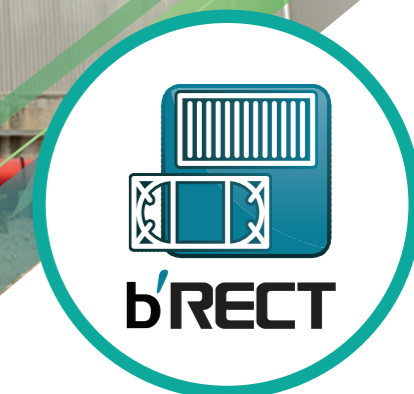
- iButton Authorized Solutions Developer
- International Product Certifications: Malaysia, South Africa, Indonesia, Oman, Abu Dhabi & etc
- ACE Assurance Global Product Liability Coverage up to RM1,000,000.00
- R&D initially is funded by MOSTI (Ministry of Science, Technology & Innovation) under Industrial Grant Scheme (IGS)
- Commercialization is subsequently funded by MTDC (Malaysian Technology Development Corporation) under CRDF Fund
- 2nd generation development is funded by MDC (MSC Development Corporation) under MGS Fund
- 13 Patents Filed
- 5 Local and International Certification Awarded
- Operate 10 Monitoring Centres

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Distributor:

BSMART SYSTEM SOLUTIONS (1062538-P)
 Unit 38-3-5, Shamelin Business Centre,
 Jalan 4/91, Taman Shamelin Perkasa,
 56100 Kuala Lumpur.
 Tel : 0392267533 / 7532
 Email : inquiry-my@bsmart-solutions.com

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 www.bsmart-solutions.com



BSMART Regional Electronic Cargo Tracking

Green Telematics



BSMART Regional Electronics Cargo Tracking System is a heavy duty electromagnetic lock integrated with comprehensive commercial vehicle operation services to enable seamless automation of Cargo Operations, Security Operations, Carrier Operations and Support Operations.

b'RECT



b'RECT revolutionising technology provides not only physical lock to safeguard cargo in transit from being stolen or accessed without authorisation but also integrates with IP CCTV Video surveillance system to enable complete real time in-transit visibility. **b'RECT** not only secures the cargo and provide real time in transit visibility, it also ensure accountability of the related personnel who loads and offloads the cargo with specific key that can only close and open the container door. Hence, it indirectly removes the potential risk from the driver.

b'RECT security level is further heighten by its capability to manage the container door opening based on:

- Right location
- Right time period
- Right contacted type of 64bits digital key

Additionally, **BSMART** Customer Service Centre operates on a 24x7 basis to secure routine monitoring, fraud prevention and improve accountability. **BSMART** works closely with the Customer to realize improvements in Cargo security and logistic efficiency.

b'RECT platform is protected by multiple patents, design and trademark applications and, it is wholly designed by in-house engineers. The system's intelligence, both from a hardware perspective with its unique Front End Intelligence and from a software perspective with its web-enabled KPI and reporting capabilities allows companies in the logistics sector to immediately realise key efficiencies and improvements.



In-Transit

- Real Time Visibility
- Computer-aided Scheduling & Dispatching
- Transport Management System Integration
- Secure Route Management
- Remote Immobilisation & Theft Recovery Services
- Electronic Proof of Delivery
- Intelligent Real Time SMS / Email Alert Services
- 24-hours Monitoring Services

b'RECT is a subscription based service program. The core value lies in providing our customers with peace of mind as far as mobility technology is concerned with a complete system and support, and zero upfront investment. Customers are able to leverage **BSMART** as their strategic technology partner, saving them the hassle of technology upkeep and, avoiding complex and expensive in-house maintenance. **BSMART's** platform thus minimises financial risk, allowing the customer to improve operations efficiency and effectiveness, and drastically lowering their total cost of ownership. This allows them to focus on their core competencies and business services.

b'RECT focuses on Cargo Security and operation services and KPI reporting and analysis. **b'RECT** is capable of delivering the following advantages to customers:

Increased Cargo Security

- Cargo is fully secured during transit
- Full accountability
- Container Door can only open when it is at the right destination, with the right electronic Key and within the right period of time

Improved Service Quality

- Improve reliability
- Increase operational flexibility
- Improve user and customer confidence

Increased Operational Efficiency & Productivity

- Reduce errors, wasted effort, and re-work
- Optimize assignment of equipment and people
- Optimize across functional areas
- Reduce slack capacity and inventory

Enhanced Service Integrity

- Better transparency
- Mitigate information losses in progress
- Enhance safety
- Reduce paper work

Addition benefits of **b'RECT** include:

- To assure integrity of conveyance loading and documentation
- To reduce risk of tampering in transit significantly
- To improve accurate, complete & timely information about shipments
- To potentially reduce reckless drivers causing traffic problems
- To increase daily income by being able to receive more jobs
- To improve customer satisfaction in Malaysia
- Transportation Services Quality through improving in-transit efficiency by shortening waiting time allowing for more efficient real time job order automation.
- To enhance Cargo safety and security due to better traceability of vehicle in-transit.
- To ensure public complaint traceability and validate ability since Commercial Vehicle movements are comprehensively traced.
- To provide expertise and integration capability with ASYCUDA, ASYCUDA++ and ASYCUDA World.

Overview of Regional Electronic Cargo Tracking System

Regional Electronic Cargo Tracking System

Electronic cargo tracking is the monitoring of the movement of cargo using electronic means.

Customs Requirements

To improve the movement of cargo through real time / relevant time monitoring of the location of cargo and the status of seals. This solution involves geo-fencing designated transit routes so that an alert is activated when there is diversion from the route, and or when there is violation of Transit controls.

How RECTS will benefit

Short Term

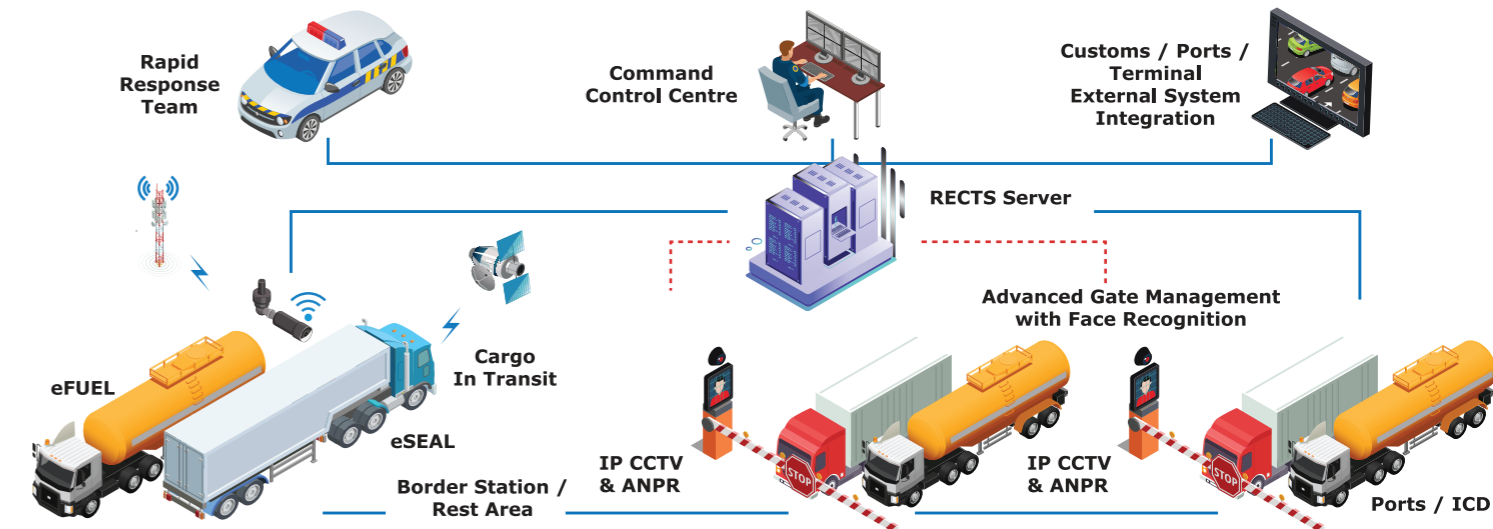
- To monitor cargo and to provide cargo information on real and relevant time basis
- To record events and playback of such event information for sharing with authorized stakeholders.
- To provide reports / information on the status of trucks (tampered with or secure) on a real time basis.
- To send real time alerts and short messages in the event of any breach of the system operations and components.
- To curtail tax evasion, illegal dumping of goods.
- To prevent the loss of asset and human life due to incidents that often occur from the theft of goods / commodities.

Long Term

- To identify illegal diversion of goods which are under Customs control.
- Improved government revenue.
- Improved transit times.
- Real-time consignment tracking as opposed to manual tracking.
- Transparency.
- Provide accurate data for proper resource planning and deployment.
- Provide accurate information for assessment of work load on specific routes and work stations.

Project Objectives

RECTS Overview



Fuel Tanker Trucker Monitoring Terminal

