

Review of RFID Business



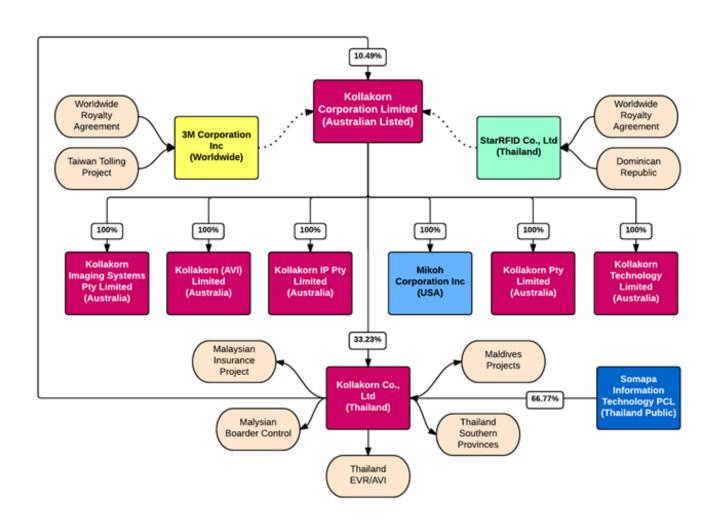
"One Platform - Many Solutions"



Kollakorn Key Relationships & Background



Kollakorn Corporate Relationships

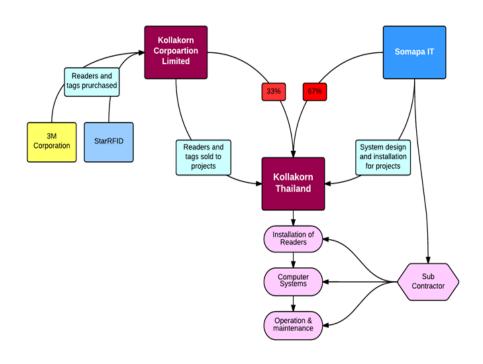




Kollakorn Thailand

- Most RFID business is through Kollakorn Thailand
- We own 33% of Kollakorn Thailand
- We sell equipment and tags to Kollakorn Thailand at a markup
- Kollakorn Thailand has concession to provide Vehicle AVI & EVR to Thailand
- Kollakorn Thailand provides systems design & integration

Structure of the RFID Business





Status of the Thailand RFID Concession



Background to Thailand EVR/AVI Concession

- Concession is in its 4th year of 10 Years
- AVI & EVR proposal reviewed favourably by 3 consecutive Governments
- Just prior to point of final approval by each Government, there was a change of Government, requiring resubmission to new Government representatives
- In April 2012, Department of Land Transport (**DLT**) made it mandatory for approximately 40,000 public & private buses to be tagged with a SmartRFID™ tag
- This became a proof of concept trial for DLT



Why Use EVR & AVI in Thailand?

- Goal of DLT is to have a SmartRFID™ tag on every vehicle in Thailand to ensure that all vehicles:
 - Ø Up-to-date with road taxes
 - Ø Up-to-date with insurance
 - Ø Up-to-date with roadworthiness inspections
 - Ø Can be monitored for speeding
- Every hour more than one person dies on Thailand roads
 (35 deaths per day)
- Estimated 8m of 34m registered vehicles have not paid third party insurance premiums
- Estimated 2m to 3m vehicles are on roads unregistered



Proof of Concept Successful - SmartRFID™ Lowers Bus Road Toll

	2011				2012			
	April	May	June	Total	April	May	June	Total
Number of Accidents	35	23	34	92	3	2	2	7

Source of 2011: http://apps.dlt.go.th/statistics_web/statistics.html on 18 July 2012

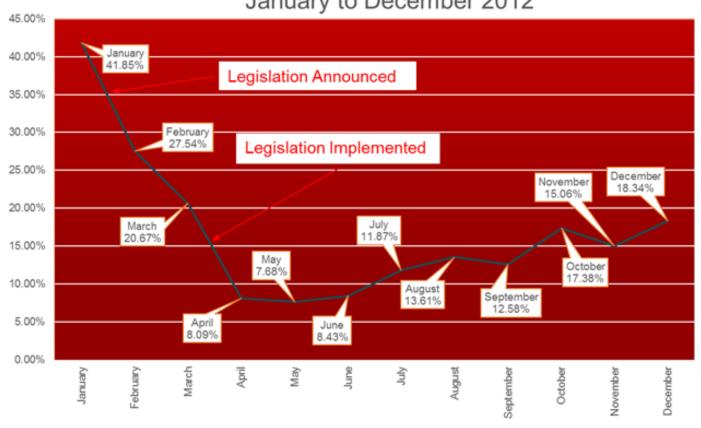
Source of 2012: Publishing News on April – June 2012

- DailyNews
- Kom Chad Luek News
- Thai Rath News
- Khaosod News



Evidence SmartRFID™ Changes Driving Habits

% of Drivers Speeding Over 100 Km/Hour January to December 2012





Next Steps for EVR Implementation

- Military Government understands the strong security benefit of SmartRFID™
- Government is fast tracking installation of RFID in the Southern Provinces of Thailand in 2015
- Tagging will include approximately 2m vehicles in the 5 Southern Provinces and all those entering including from Malaysia
- Being openly discussed to tag every one of the 34m vehicles in the Thailand to:
 - Ø Insure collection of road taxes and insurance
 - Ø Eliminate criminal activities such as the sale of drugs
 - Ø Guard against terrorist activities



Electronic Vehicle Registration (EVR) and Automated Vehicle Identification (AVI)



SMARTRFID[™] – "Patented" Break On Removal (BOR) Technology

The SmartRFID™ tamper-evident RFID tags guarantee:

- A One-to-one relationship between vehicle and tag; and
- Security of information

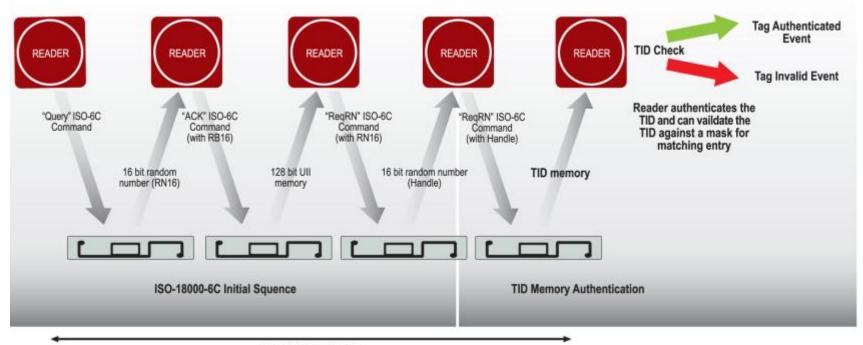




SMARTRFID™ – Fast, Reliable & Smart

Ultra-High Speed Write/Read Response

 Ability to read and write multiple tags at speeds in excess of 170 km/hour

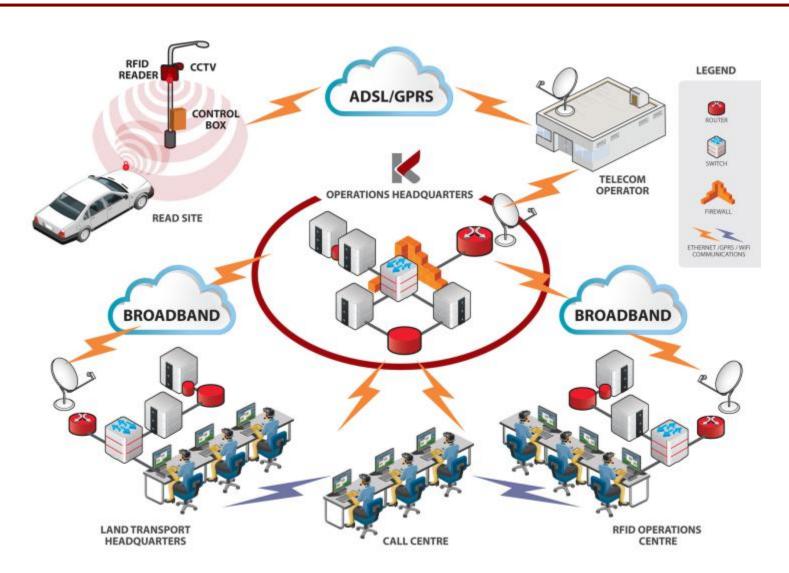




EVR and AVI Now Operational in Thailand



SMARTRFIDtm - System Overview Operating In Thailand





Server System & RFID Control Room





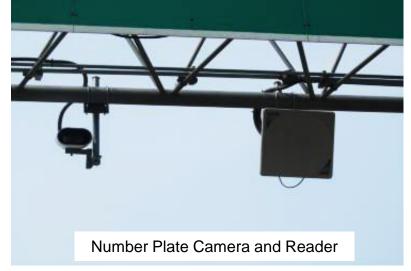




450 Reader & Camera Sites in Thailand









SMARTRFIDTM Traffic Monitoring







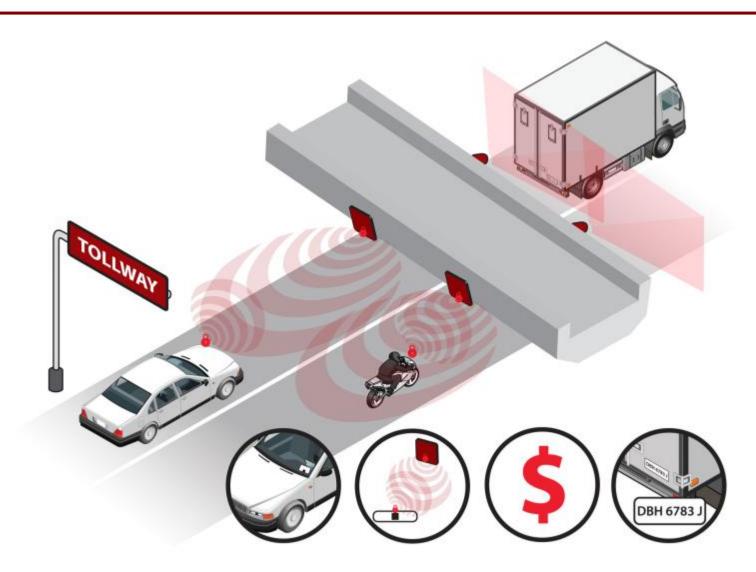




EVR & AVI Applications Available Using the SMARTRFID™ Platform

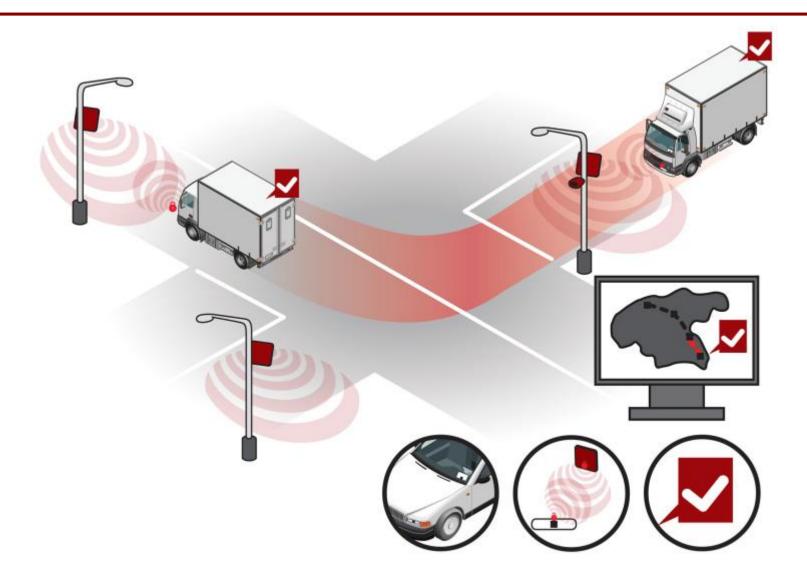


Free Flow & Peak Hour Tolling – Eliminates Barrier Gates



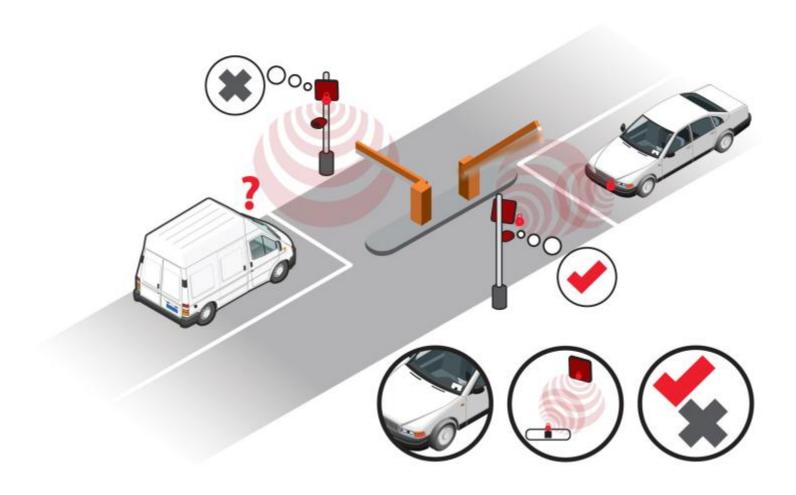


Vehicle Routing & Tracking



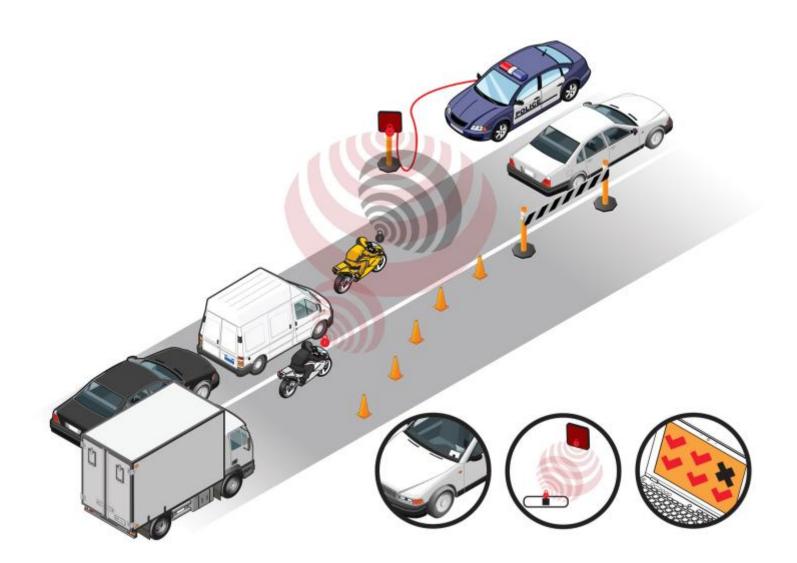


Access Control & Border Control



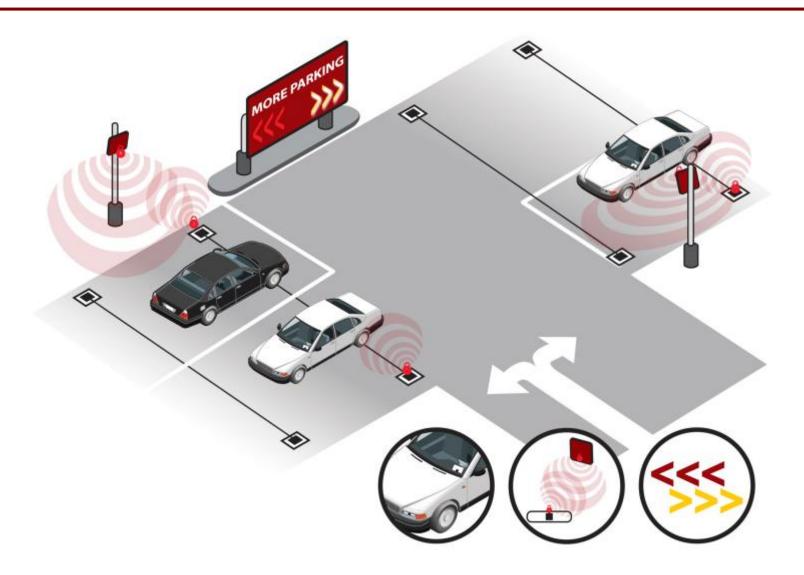


Security & Mobile Police Check Points



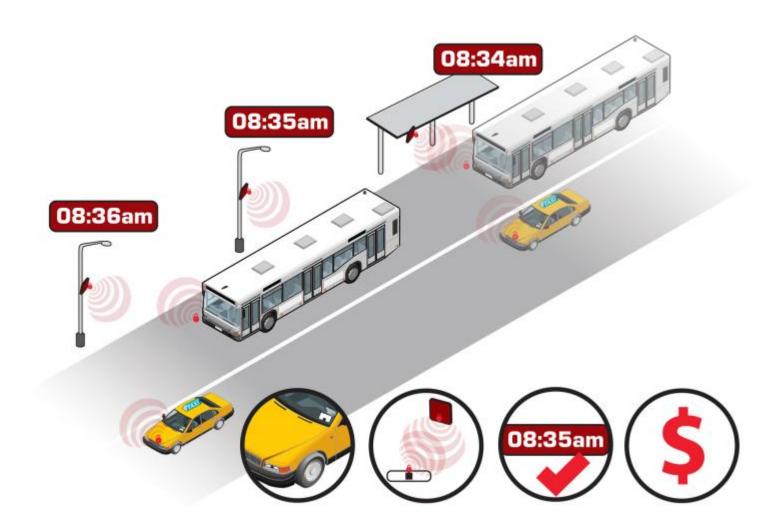


Parking Applications



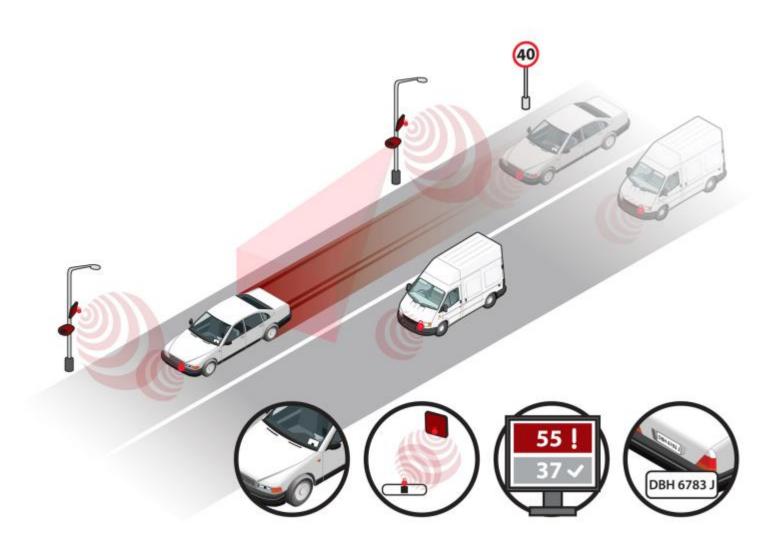


Bus Journey Time Management System





Speed Monitoring Application





Other RFID Markets



Channels to Market

- 2 channel resellers for sales of tags 3M Corporation & StarRFID both have worldwide royalty agreements
- 3M Corporation & StarRFID are selling significant numbers of RFID tags equipped with the Patented BOR technology
- Volume sales are on the increase as the requirement for secure RFID tags for vehicle applications expands across the world
- Kollakorn Thailand, together with SomapalT actively pursue projects that have as a central feature SmartRFID™ tags with BOR technology



Malaysia

- Kollakorn Thailand is working on 2 projects with our local integrator as our partner
- These projects will require significant numbers of vehicles to be tagged with a passive SmartRFID™ tag using our patented BOR technology
- Projects are in final approval stages and have been presented to the Government using a specially developed presentation system built by Kollakorn Thailand
- We have submitted a quote for 100 readers and 12 million tags



Taiwan, Dominican Republic & Israel

Taiwan

- Ø 3M Corporation secured contract with Far Eastern Electronic Toll Co to supply SmartRFID™ tags with BOR technology to for use on tollways
- Ø 3M Corporation delivered 6m SmartRFID™ tags
- Ø Project continues in maintenance mode

Dominican Republic

- Ø 1.2m RFID tags with BOR technology for tagging motor cycles
- Ø Order won against competitors by defending our BOR technology patent rights

Israel

- Ø Supplied 3,000 tags for phase 1 of a pilot project with biggest bus company
- Ø Subsidiaries throughout Israel and Europe
- Ø Install our tags for tracking buses and cars in their car washes
- Ø Supplied in March a further 3,000 tags for phase 2 of pilot



Potential of Our Passive RFID Business

- RFID driven by one application retail apparel tags
- Next is RFID tags deployed for asset tracking and transport applications
- Future profits will be made out of designing, implementing & leasing RFID applications
- Design & implementation of RFID Systems is a strength of Kollakorn because of its relationship with SomapaIT and Kollakorn Thailand



Kollakorn is focused on the ASEAN Nations

- Brunei, Cambodia, Indonesia, Lao, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam
- Thailand borders most of the ASEAN nations:
 - Ø Vehicular traffic (including from China), passes through Thailand
 - Ø Thailand will make it compulsory for alien vehicles entering to be tagged at border crossings
 - Ø Thailand SmartRFID™ vehicular tags could become the standard for the countries that border Thailand





ASEAN Nations - Solid Vehicle Base that is Expanding

No.	Country	2010	2011	2012	2013	2014
1	Thailand	28,484,829	30,194,937	32,476,977	33,520,175	34,681,811
2	Myanmar	2,240,983	2,354,275	3,614,256	4,874,237	4,908,018
3	Vietnam	36,274,000	38,594,824	40,115,000	42,881,000	45,647,000
4	Cambodia	1,652,534	2,190,000	2,378,600	2,571,500	2,780,000
5	Laos	1,008,788	1,741,585	2,366,000	2,990,415	3,614,830
6	Singapore	945,829	956,704	1,943,210	1,948,340	1,944,074
7	Indonesia	68,839,641	85,601,351	94,373,000	103,144,649	111,916,298
8	Philippines	6,634,855	7,138,942	7,463,393	7,690,038	7,916,683
9	Malaysia	13,100,000	14,300,000	15,100,000	16,400,000	17,500,000
10	Brunei	114,000	148,000	160,000	216,000	272,000
	Total ASEAN	159,295,459	183,220,618	199,990,436	216,236,354	231,180,714
	% Growth		13.06%	8.39%	7.51%	6.46%



Asset Management Solutions – Another Business Application for RFID



Asset Management – Open Plan Office





Asset Management – Conference Rooms



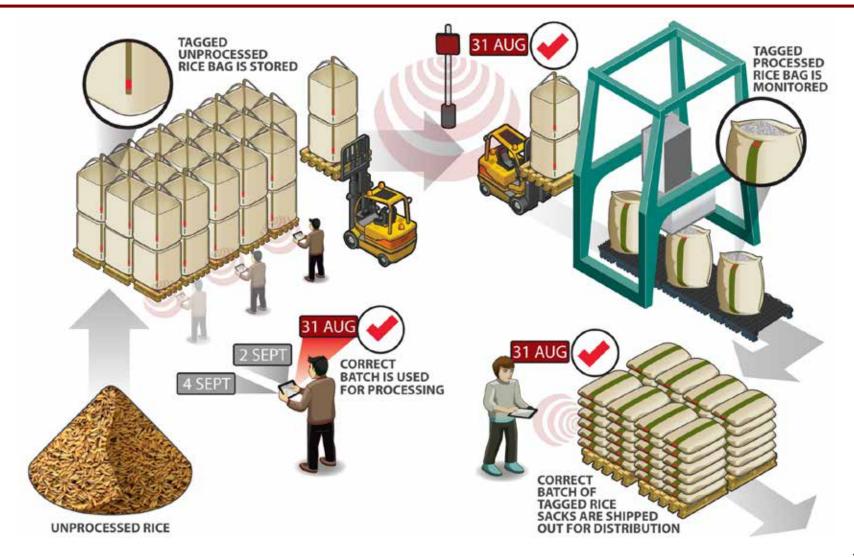


Asset Management – Retail





Inventory Management - Warehousing





For More Information:

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