

Singapore's RFID Journey

7 April 2005



Who's IDA?

Infocomm Development Authority of Singapore (IDA)

- > Telecoms regulation
- E-government implementation
- Industry development

Singapore's Experience in RFID Deployment



Institute of Microelectronics, Institute of Infocomm Research and Defence Science & Technology Agency developed solutions to use RFID for SARS contact tracing in local hospitals in 2003.



Land Transport Authority has used RFID in Electronic Road Pricing (ERP) system in city areas and on expressways since 1998.



National Library Board has deployed RFID in library environment since 1998 to automate borrowing and returning of library books, and quick sorting to put books back onto shelves.



IDA RFID Development Strategy

IDA announced in May 2004 that we will invest S\$10 million seed fund to develop Singapore into RFID Hub in Asia

- Align Frequency Spectrum
 - > For global interoperability
- Build Capabilities
- Catalyse Adoption



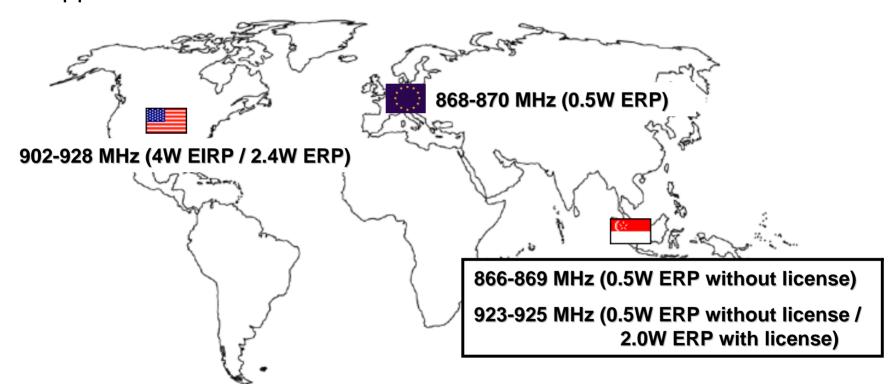
Singapore Seeks Leading RFID Role

With the goal of becoming Asia's foremost center for RFID technology, the island-republic will invest millions on research and training.

July 12, 2004

Align Frequency Spectrum

UHF frequency spectrum and power output limit for RFID applications allocated in Nov 2004



Singapore is among the first Asian countries to have formally allocated UHF spectrum with suitable power limit for RFID applications



Building Capabilities - Technology

Developing multi-frequency RFID tag



Developing intelligent active RFID tags that can communicate with one another



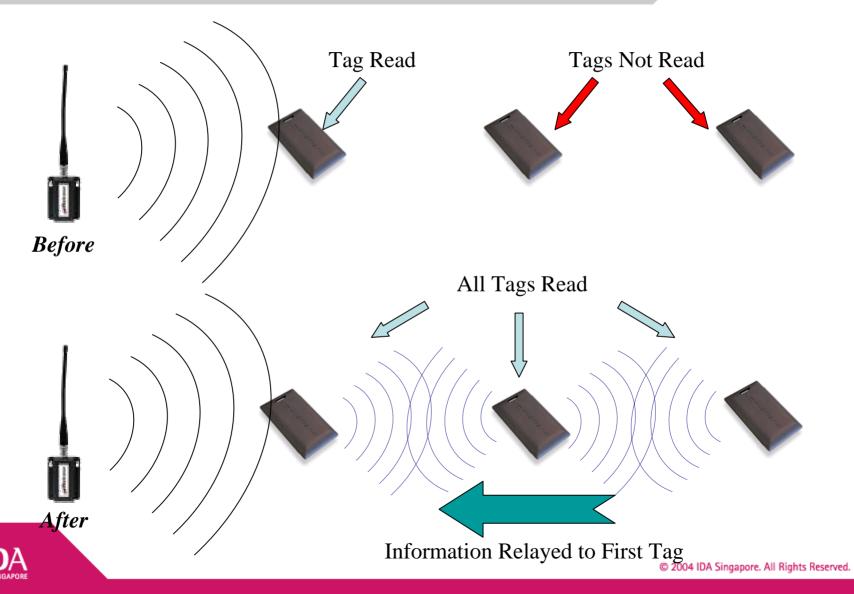
Developing EPCglobal Gen 2 reader





Building Capabilities - Technology GT&T Active Tags





Building Capabilities - Technology Gen 1 & 2 readers







Building Capabilities - Infrastructure

- RFID development centres:
 - 1st RFID test centre in Southeast Asia



NEC RFID centre that features the region's 1st EPC network

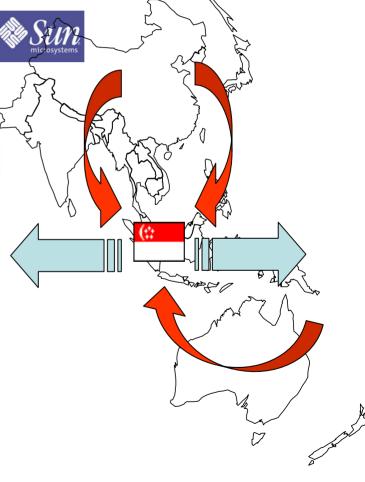


IBM development centre



> HP Cooltown







Catalyse Adoption

Aviation

1st Airbus logistics centre outside Germany to implement RFID for tools tracking



Retail

 Largest supermarket in Singapore deploying RFID in their distribution centre for product tracking





Logistics

 Local logistics operator YCH using RFID to manage bonded warehouse operations



BaxGlobal to trial RFID and Rosettanet integration in VMI warehouse



 Pallet leasing companies LHT and Loscam to monitor regional asset tracking system using RFID





Logistics service provider Translink Express to trial RFID cold chain management system





Building a Vibrant RFID Ecosystem

Chips/tags



Smartag

Readers







Software/Middleware









CET Technologies Pte Ltd

System Integration





NEC







THE BUSINESS TIMES Monday, March 7, 2005



STMicro making RFID chips in S'pore

It hopes to ride on demand generated by Wal-Mart mandate to its suppliers, reports AMIT ROY CHOUDHU



Carrefour are also



Dell'ova (left) says STMicro hopes to see prices of RFID tags drop to around 5 US cents within the next few

RFID - the bar code of the future



Thank You



Contact Us

Email: rfid@ida.gov.sg