

“EPCglobal: The Backbone of RFID Standards”

EII RFID Data Management Workshop,
Brisbane '07



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EPCglobal Australia

Menu for the day

1. Introduction.....	4
2. EPCglobal – Nuts and bolts of RFID.....	6
3. SAG – The software action group.....	7
4. EPCIS based on SOA – Platform for future computing.....	10
5. High Power UHF spectrum – Our work with ACMA, Vodafone, Monash.....	13
6. Time for the audience.....	15

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The Vision

Leverage cheap, automatic object identification...

Put information on the network (the internet)

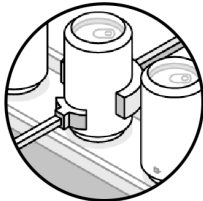
Let information follow the object

the internet of things

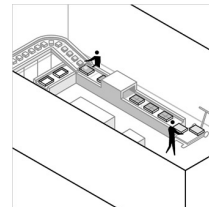
Focus on the supply chain : Retailers, Distributors, Logistics, Manufacturers

Build the business case

Add identity to products



Add identity to cases



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ELECTRONIC PRODUCT CODE TYPE 1

01.0000A89.00016F.000169D<0

Header 8 bits EPC Manager 28 bits Object Class 24 bits Serial Number 36 bits

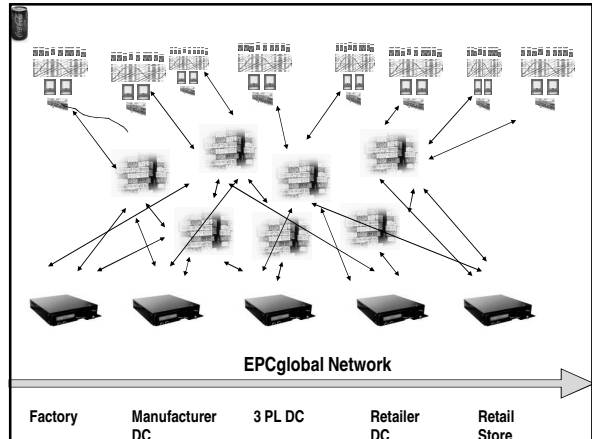
epc

- Item Identity
- Sharing with partners
- Conversions

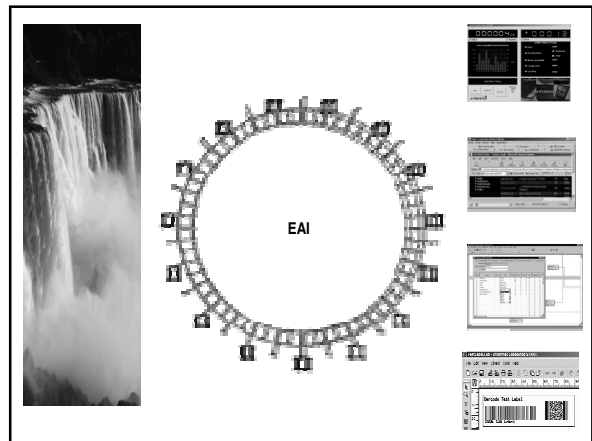
Read a tag

Read many a tag

Many a reader, many a tag



RFID Infrastructure	Current Enterprise Systems
<p>Wal-Mart Estimate: 10¹² bytes a day / facility</p> <p>Building a library of Congress in 3 days</p>	

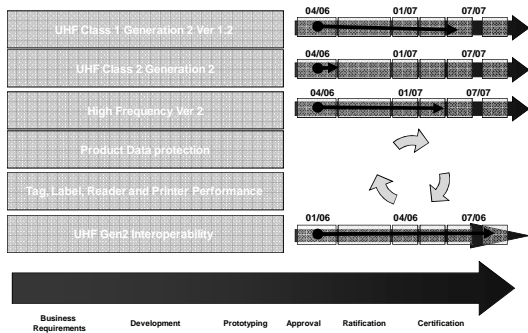


How do we address??

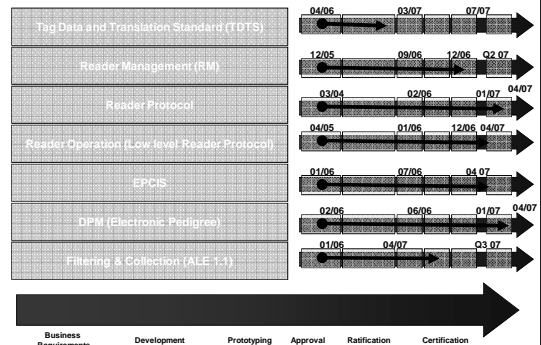
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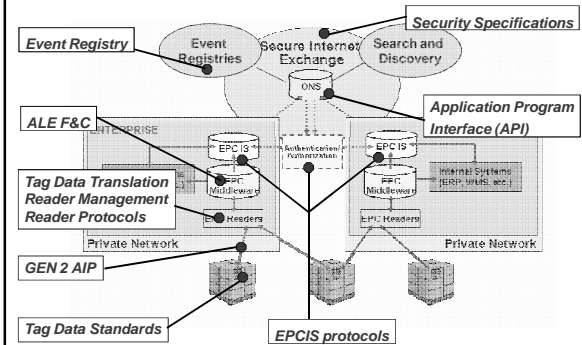
Hardware action group – Summary



Software action group – Summary



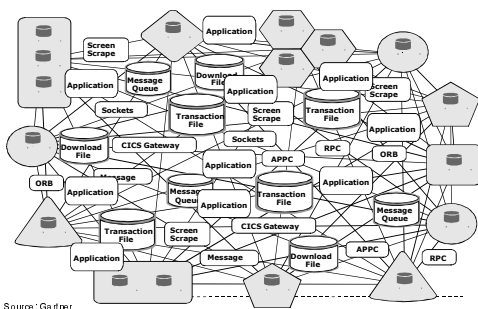
The Outcome – EPCglobal Network Standards



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What SOA have transformed?



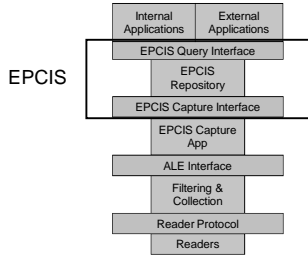
Source: Gartner

The opportunity from SOA

90% Of Real Gains In Deploying RFID/EPC Solutions Will Happen In The **COLLABORATION** Zone.

EPCglobal Standard Network Architecture

In the layered, service-oriented architecture, EPCIS enables persisting supply chain events and sharing the events with internal and external applications.



What is EPCIS Data?

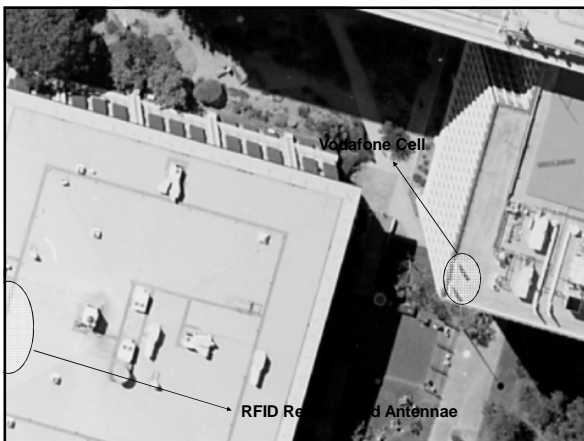
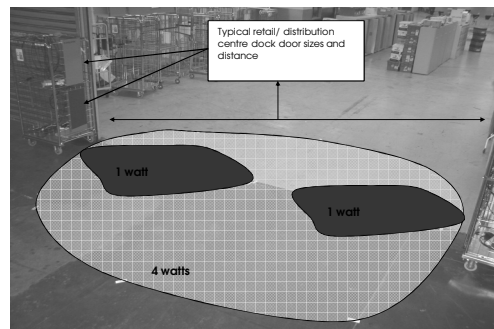
EPC Events answer 4 questions – *What, Where, When, and Why*

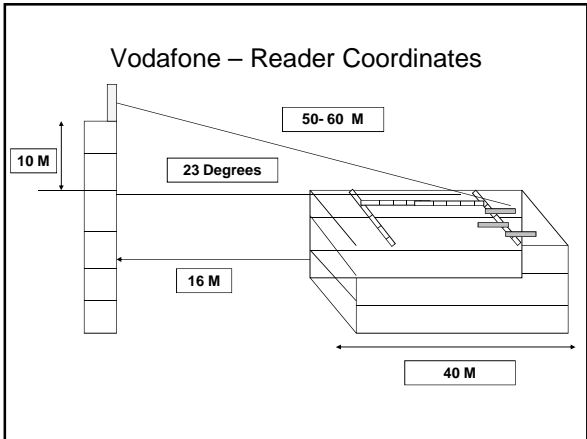
The EPCIS standard enables extending event data in each direction

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What is 4 Watts?





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Thank you

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