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RFID: The Next Big Thing?

FTC RFID Workshop
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www.idc.com



Agenda

Promise vs. reality

RFID ecosystem

Adoption of RFID for retail supply chain

Consumer privacy

RFID: Promise vs. Reality

Promise

- Reduce out-of-stocks
- Reduce safety stocks
- Reduce manual inventory management tasks
- Identify and reduce shrinkage
- Improve efficiencies
- Improve asset management
- Authenticate products against counterfeiting
- Improve responsiveness to product recalls

Reality

- High costs
- Standards in flux
- Lack of end-user knowledge
- Interference
- Inability to read 100% of cases on pallet
- One frequency and tag design does not fit all
- “Slap-and-ship” compliance vs. long-term business cases

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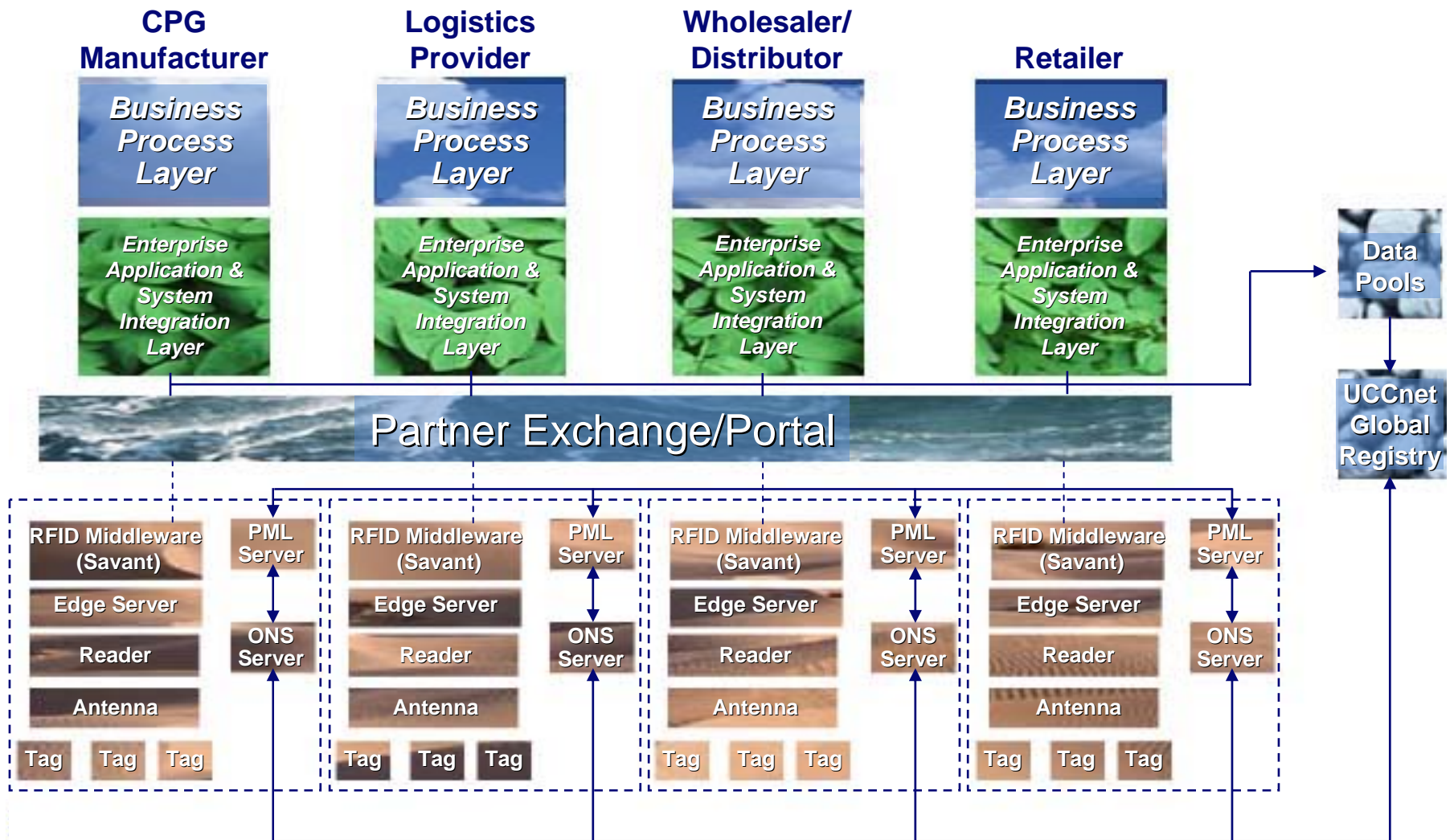
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RFID Ecosystem for the Retail Supply Chain



Source: IDC, 2004 (Document #30311, *The RFID Ecosystem for the Retail Supply Chain*)

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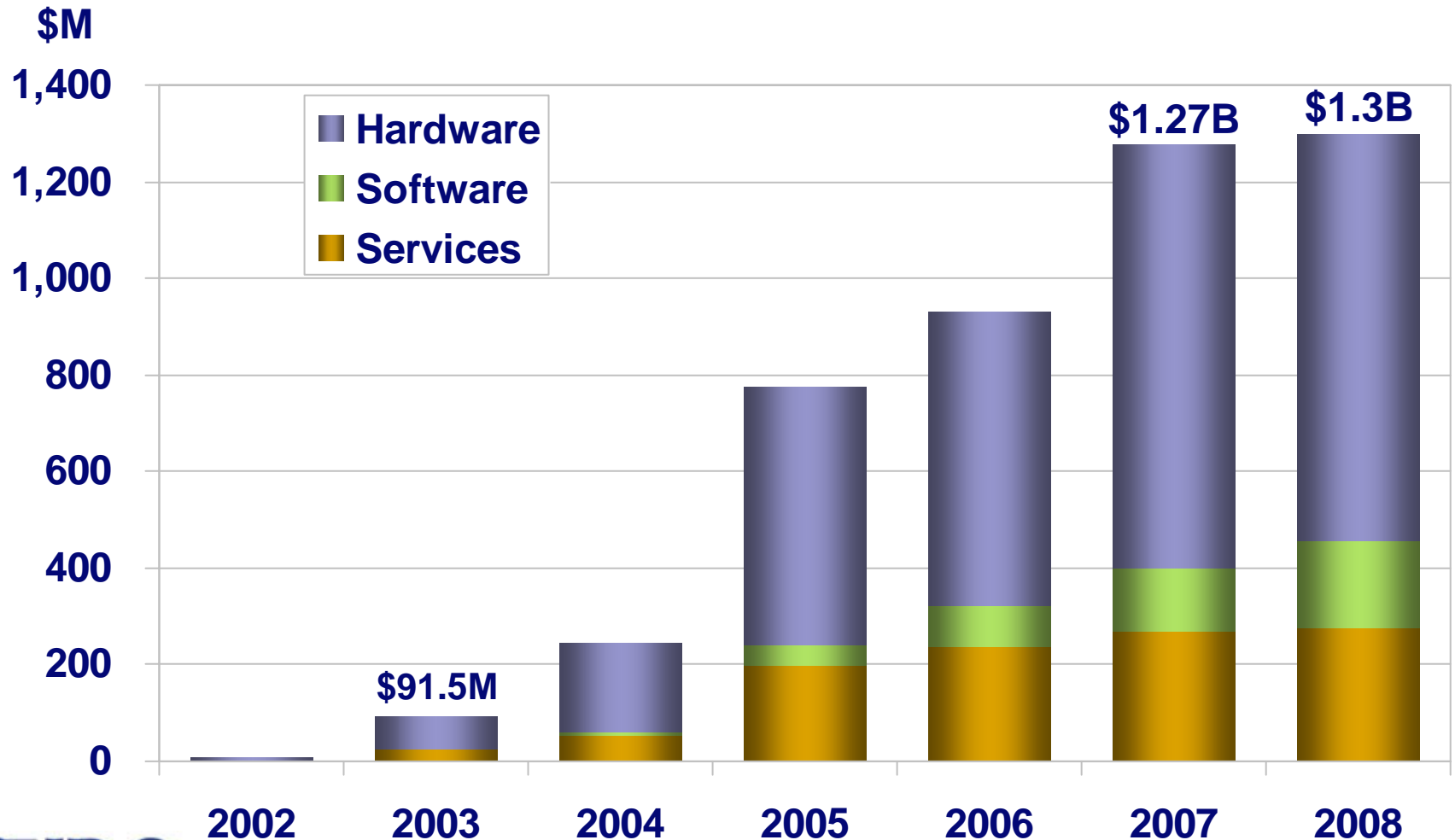
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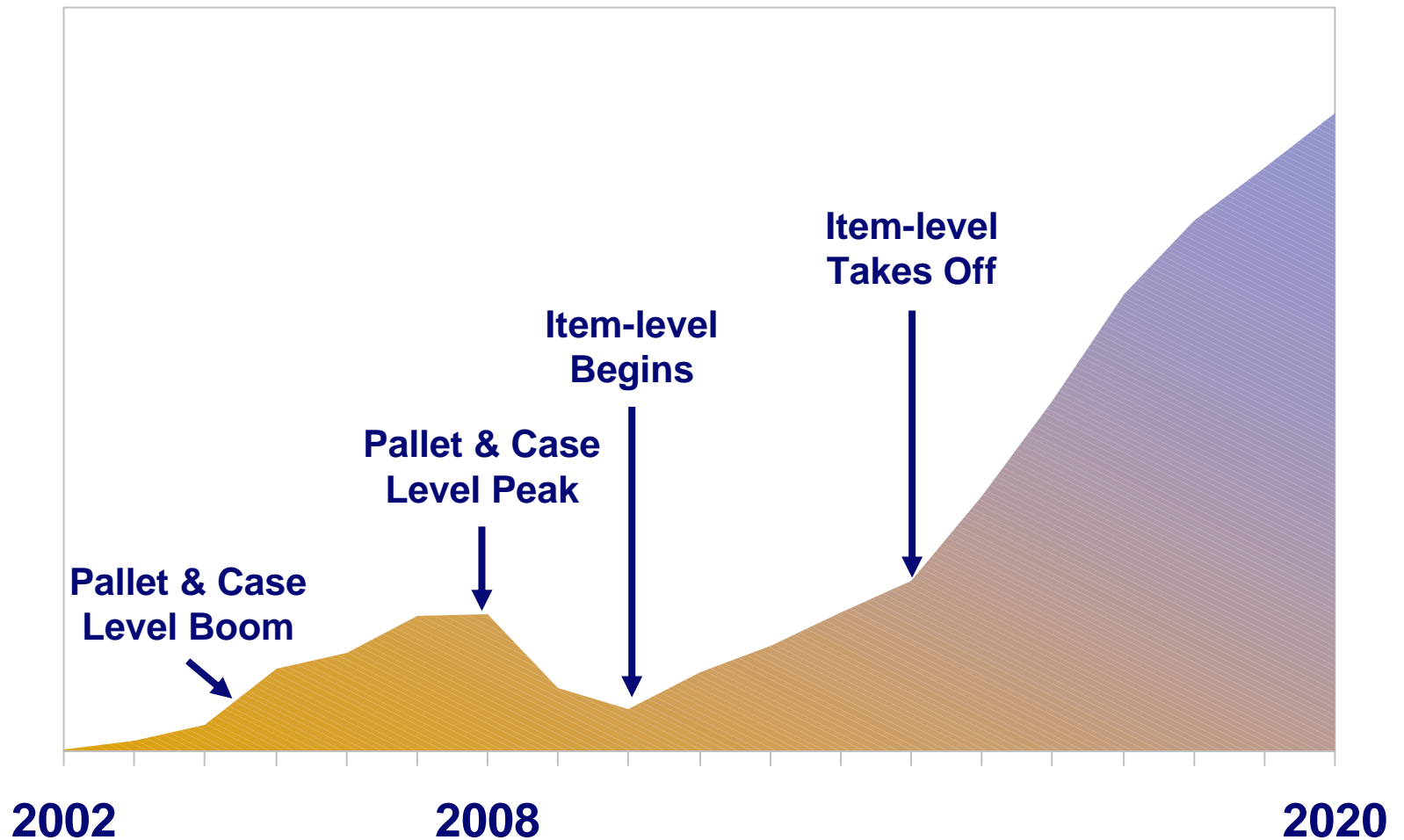
Timeline 2003–2008

2003	2004	2005	2006	2007	2008
<ul style="list-style-type: none"> •Pilots •Metro Future Store •Auto-ID becomes EPCglobal •Wal-Mart mandate, supplier mtg •DoD announcement •Passive EPC tag costs range between \$0.50-\$1.00 	<ul style="list-style-type: none"> •Business cases and pilots •More retailer mandates •First C1G2 tags available late 2004 •Passive EPC tag cost average \$0.50 •Holiday shipping/shopping season blackouts 	<ul style="list-style-type: none"> •Jan: partial compliance with Wal-Mart •Best practices from 2004 identified & adopted •C1G2 tags more widely available •Reader and tag costs drop •Passive EPC tag cost average \$0.35 •Holiday blackouts 	<ul style="list-style-type: none"> •Majority compliance with Wal-Mart 2005, limited compliance across all suppliers •More retailers deploy RFID •Early deployments broadened •Firmware upgrades •Passive EPC tags cost average \$0.15 •Holiday blackouts 	<ul style="list-style-type: none"> •Wal-Mart close to 100% compliance from all suppliers •25-30 additional retailers have RFID capabilities for pallet & case tracking •Reach early majority phase •Partial refresh of hardware from 2004 •Passive EPC tag cost average \$0.10 	<ul style="list-style-type: none"> •RFID spending flattens •Major deployments for pallet, case tracking complete •Spending on tags continues •Cost, technical limitations still too high for broad item-level tracking •Passive EPC tag cost average \$0.05

U.S. RFID for the Retail Supply Chain, 2002–2008



U.S. RFID for the Retail Supply Chain, Long View



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RFID and Privacy

- Top-of-mind concern
- State legislation introduced around consumers' right to know
- What retailers and their suppliers should **NOT** do with RFID as important as what they should do



Contact Info Questions?



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