



Sun Microsystems and Auto-ID

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iForce Solution Center

World
Internet
Center
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Agenda

- _ What is the Auto-ID Center ?
- _ What is Auto-ID ?
- _ Sun's iForce Solution Center
- _ Auto-ID and Sun
- _ Q & A

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The Auto-ID Center

- _ An Industry led Consortium with HQ at MIT, to develop and promote Auto-ID standards
 - _ Board of Overseers, Technology Board, Universities

- _ Auto-ID: Identify any object anywhere automatically

- _ Vision: “Revolutionize the way we make, buy and sell products”

- _ Standards to be made public September 2003

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Auto-ID vs. UPC Bar Codes

Feature	UPC Bar Code	Auto-ID w/ EPC
Standards-based?	Yes	Yes
Uniquely identifies items?	No	Yes
Room for growth?	No	Yes (Currently 256 bits)
Automatic Operation?	No	Yes
Mode of Read	Optical - Line of Sight	RF - Line of sight not required

Auto-ID Standards

Physical Markup Language (PML)

PML: XML vocabulary for describing manufactured products/objects

Object Naming Service (ONS)

ONS: Similar to DNS. Configured to turn EPCs into TCP/IP address for PML server

Electronic Product Code (ePC)

ePC: A 96-bit globally unique number

RFID Reader

RFID Reader

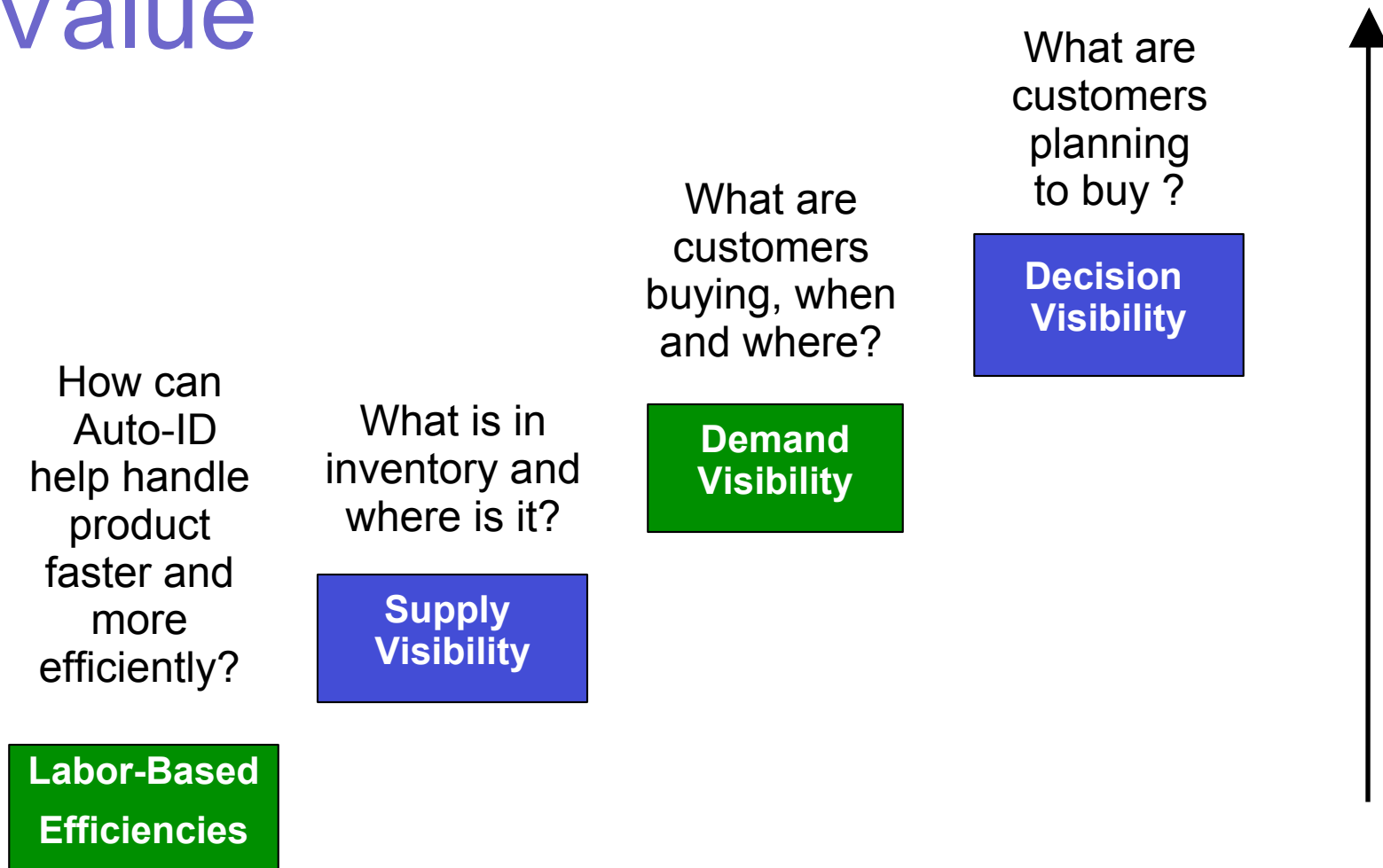
RFID Reader

**ePC Format ID
+ Manufacturer ID
+ Product ID
+ Serial Number**



RFID Tagged Products, Cases or Pallets

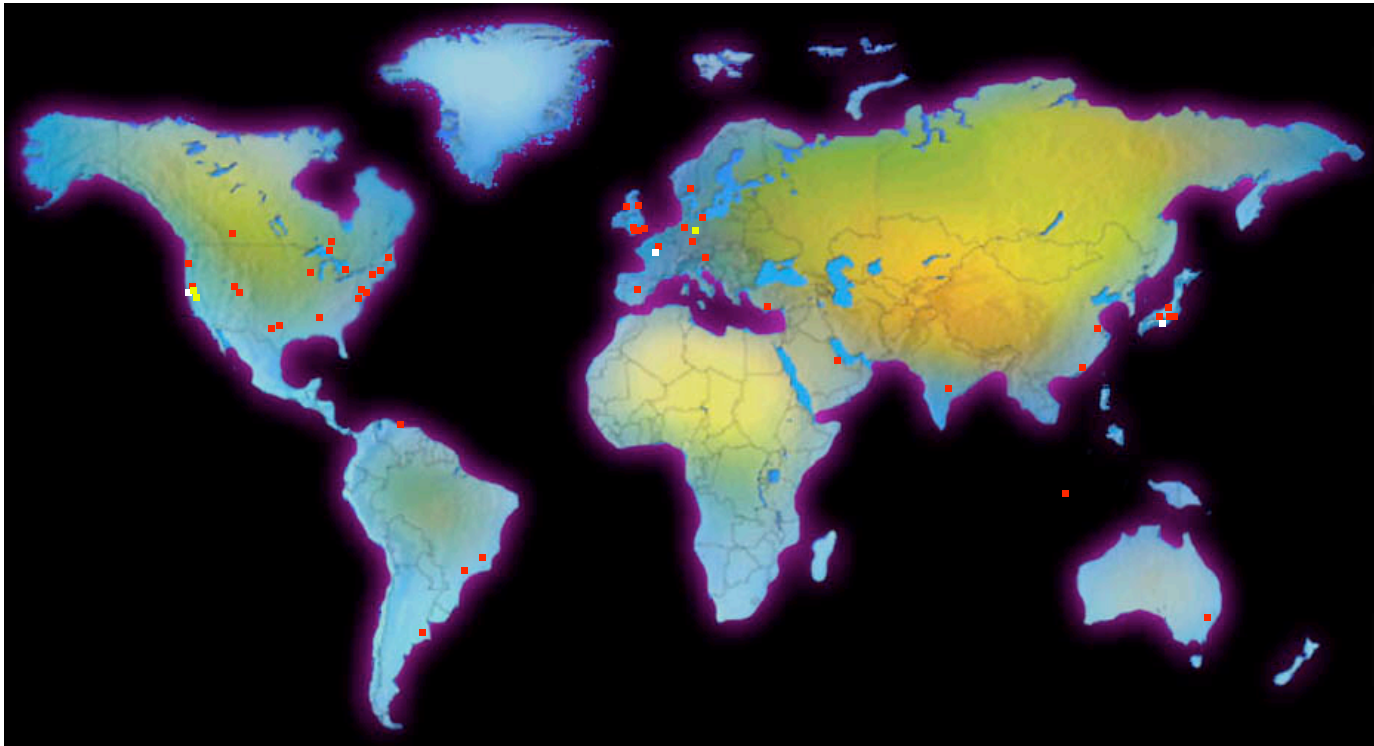
Key Auto-ID Benefits that drive Value



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iForce Solution Centers



- 3 Sun iForce Solution Centers
- 50 Authorized iForce Solution Centers
- 6 iForce Competency Centers

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*“Every single object manufactured
will be created with a wireless
address and will carry
an identifier.”*

Bill Joy, CSO, Sun Microsystems, Inc. Fortune Magazine - 1999



Sun and Auto-ID Involvement

- _ Helping drive specifications and standards as part of the Auto-ID center
 - _ Sun Representative Chairs the Technology Board
 - _ Sun Representative Chairs the Auto-ID SAG (Software Action Group)
 - _ Sun Representative Chairs the SAG Savant Spec Sub-Committee
 - _ Sun Representative Chairs the SAG License Sub-Committee

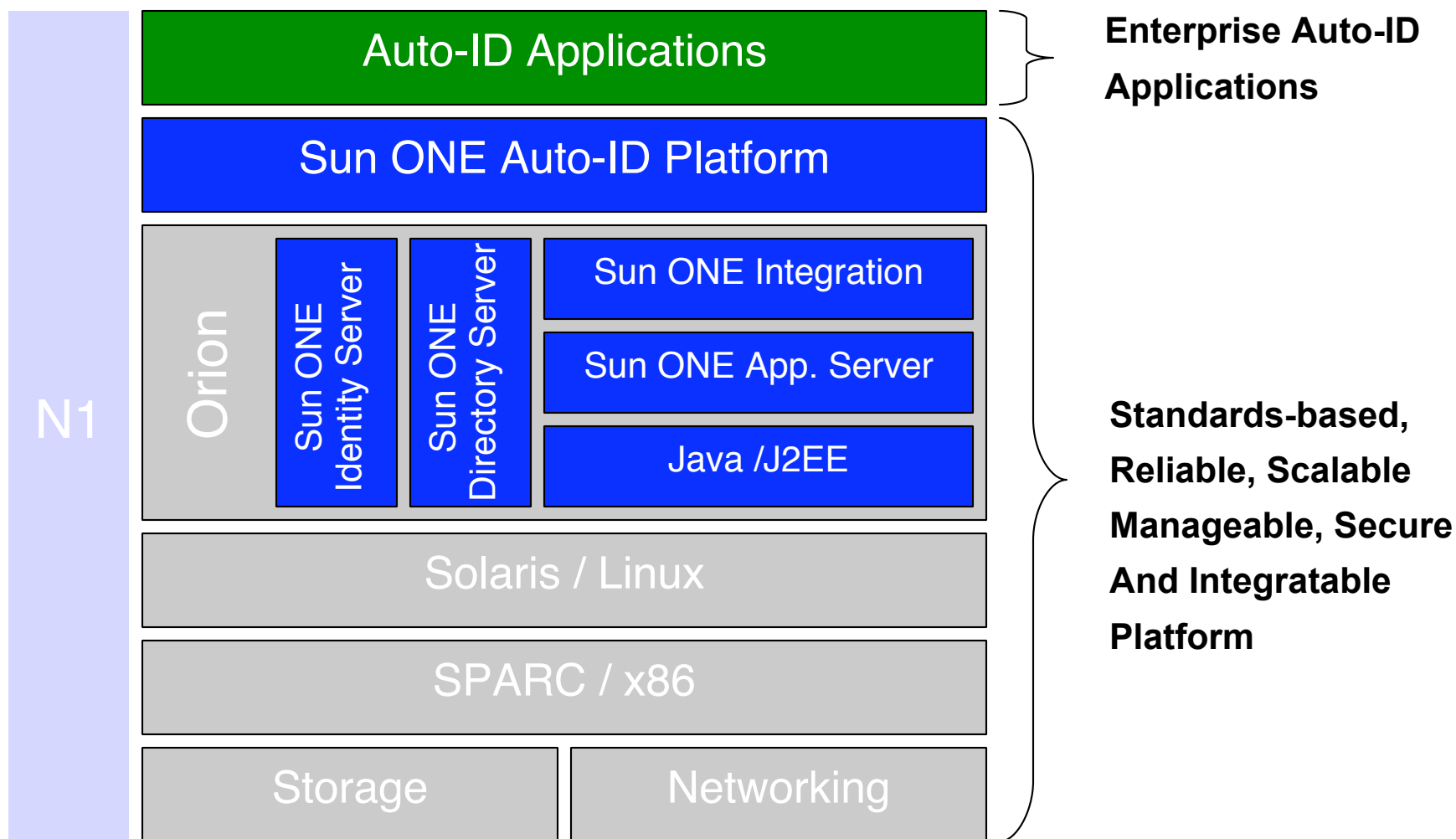
- _ Actively participating in Auto-ID center Pilots and Field Trials

- _ Ongoing Customer Trials and Deployments

- _ Sun is committed to delivering a standards based Auto-ID Product offering and Architecture with a roadmap...



Sun ONE Auto-ID Stack





Sun ONE Auto-ID Architecture

Manugistics

i2

SAP

Oracle

Provia

Other

Product Catalog

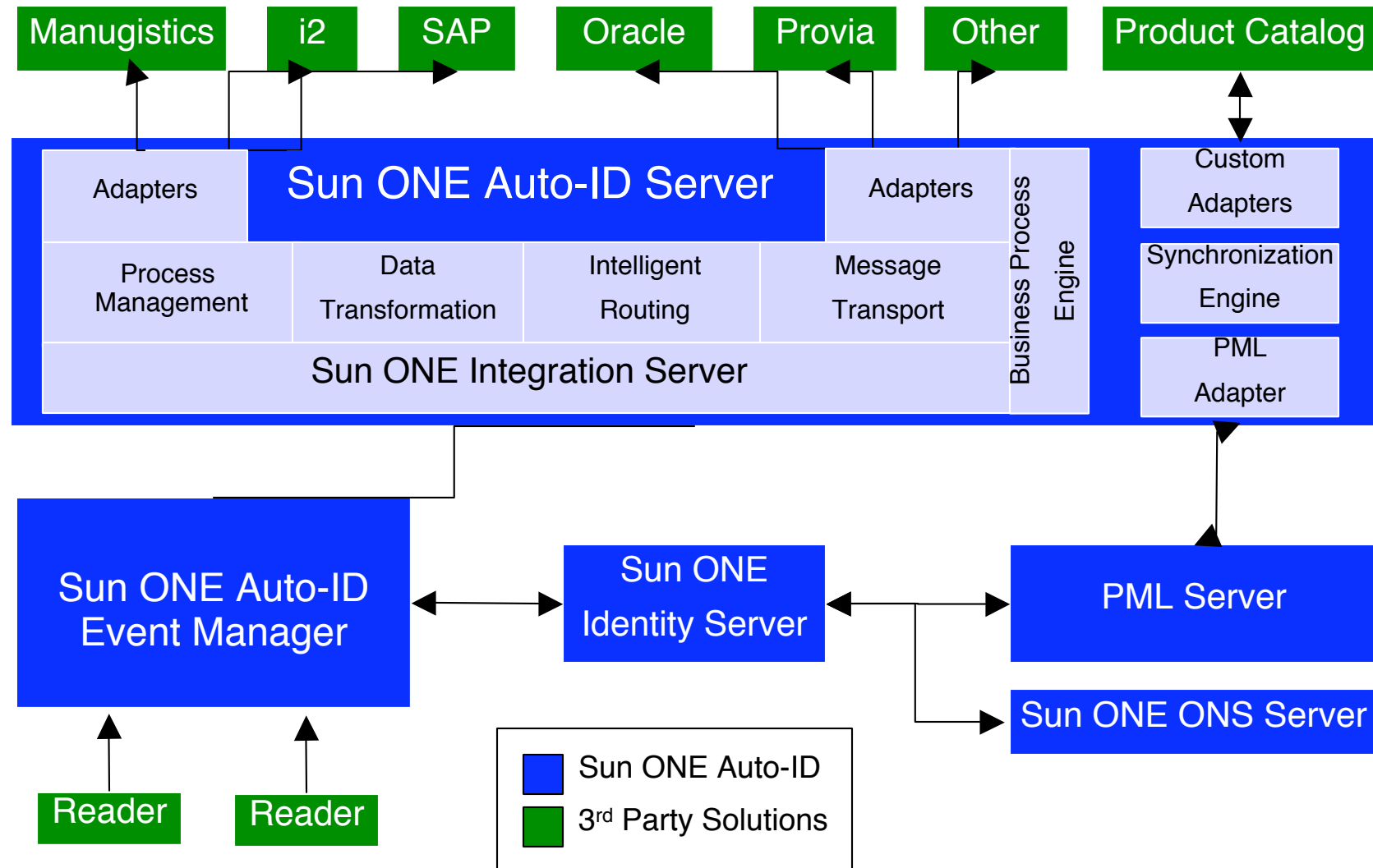
Reader

Reader

 3rd Party Solutions



Sun ONE Auto-ID Architecture





Sun Auto-ID Roadmap

- _ Auto-ID specifications presently being defined through the SAG
- _ Specification to be released September 2003
- _ Sun will deliver Sun ONE Auto-ID Platform Early Access in September
- _ General Availability in CY Q4 2003

Sun iForce Demos



Final Thoughts

- _ Sun is committed to Auto-ID
 - _ Auto-ID Center Sponsor
 - _ Actively involved in Auto-ID Technology Board and SAG activities

- _ Sun's Auto-ID expertise continues to grow
 - _ Significant Customer engagements and deployments

- _ Sun is committed to delivering a standards-based Auto-ID Platform in 2003

Questions ?



Comments and Feedback to:
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Thank You !!

