

"Putting RFID to work in your supply chain"



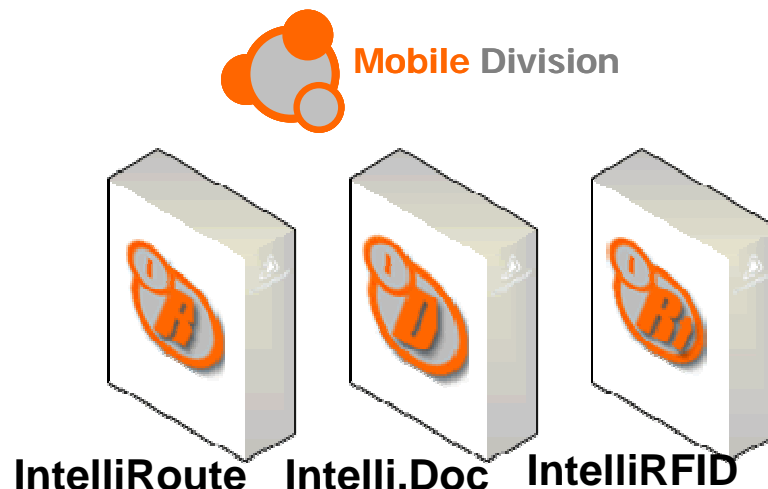


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Hasar has been providing real-time data collection and integration solutions to enhance the supply chains of the world's leading companies for many years. That core competence underlies its entire Enterprise solution, with many of our applications like...





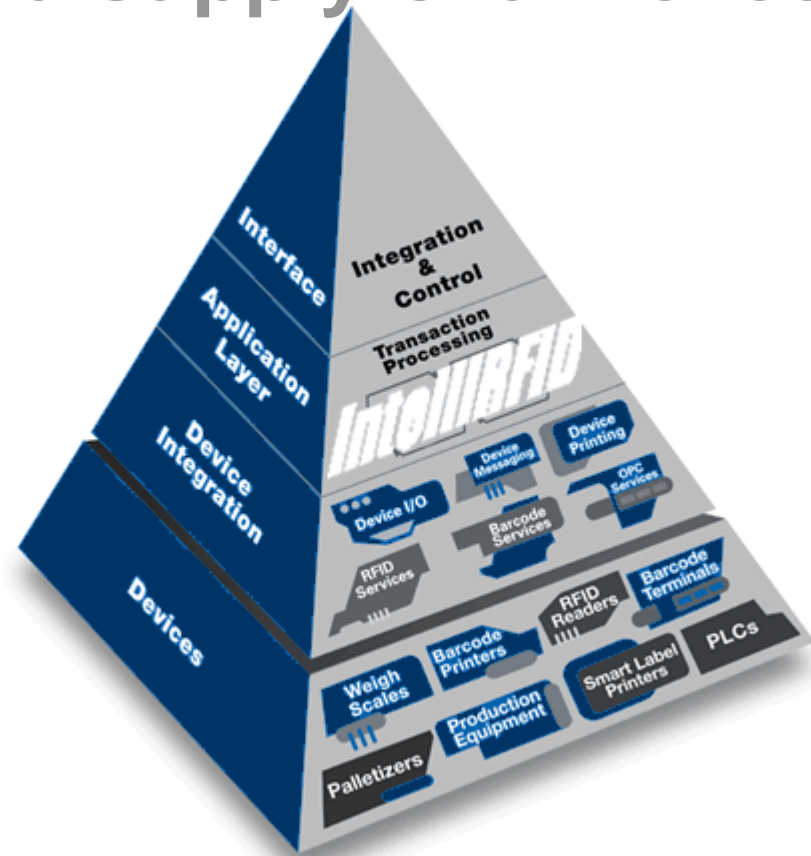
GrupoHasar

Our Solutions bridge all the varied processes and entities extended in the supply chains. Executing architected Interfaces with several ERP's like SAP R/3, PeopleSoft, Oracle.

Today, we have almost 800 live implementations in central and south America to our credit. Our customer list includes global leaders within the retail, consumer goods, chemical and pharmaceutical industries.



An efficient, integrated approach to data collection and supply-chain execution



IntelliRFID Integration and Control

Filtered and aggregated data are integrated into your ERP system through traditional and Web-based interfaces

IntelliRFID Application

User focused transactions provide higher-level applications with data to provide the enterprise with accurate real-time information

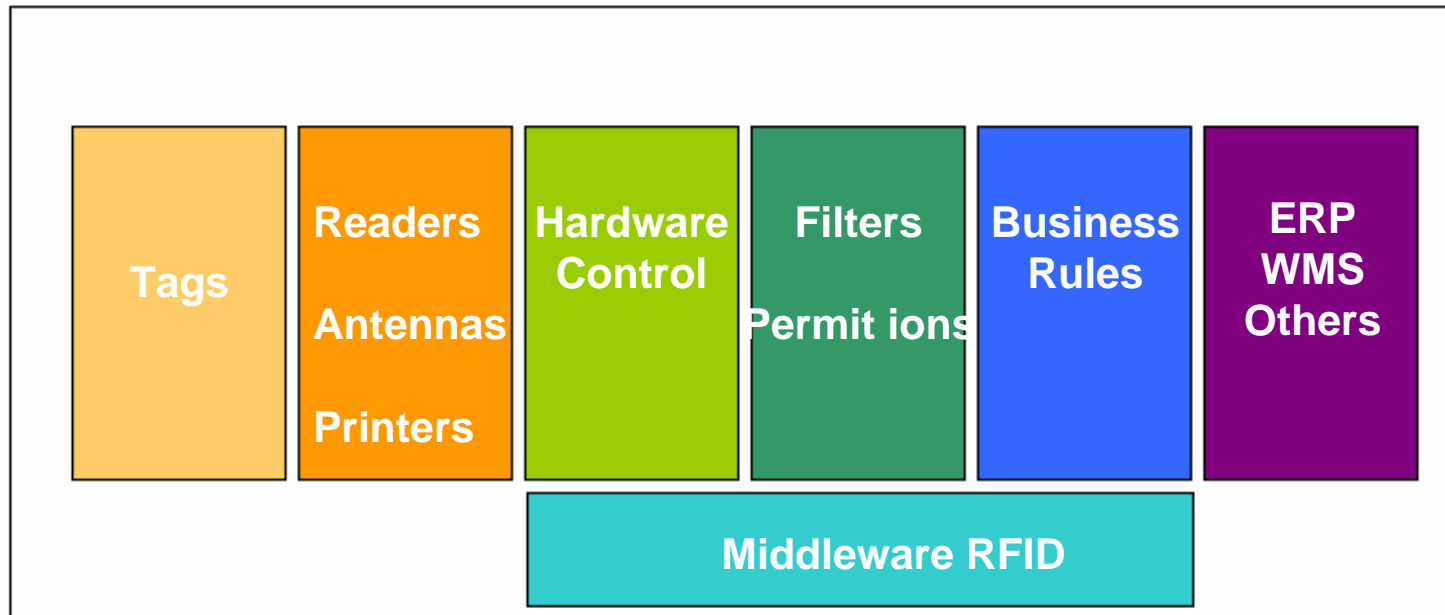
Intelli RFID Device Integration

Through its device capabilities, IntelliRFID collects, filters, aggregates and transforms the data from disparate devices

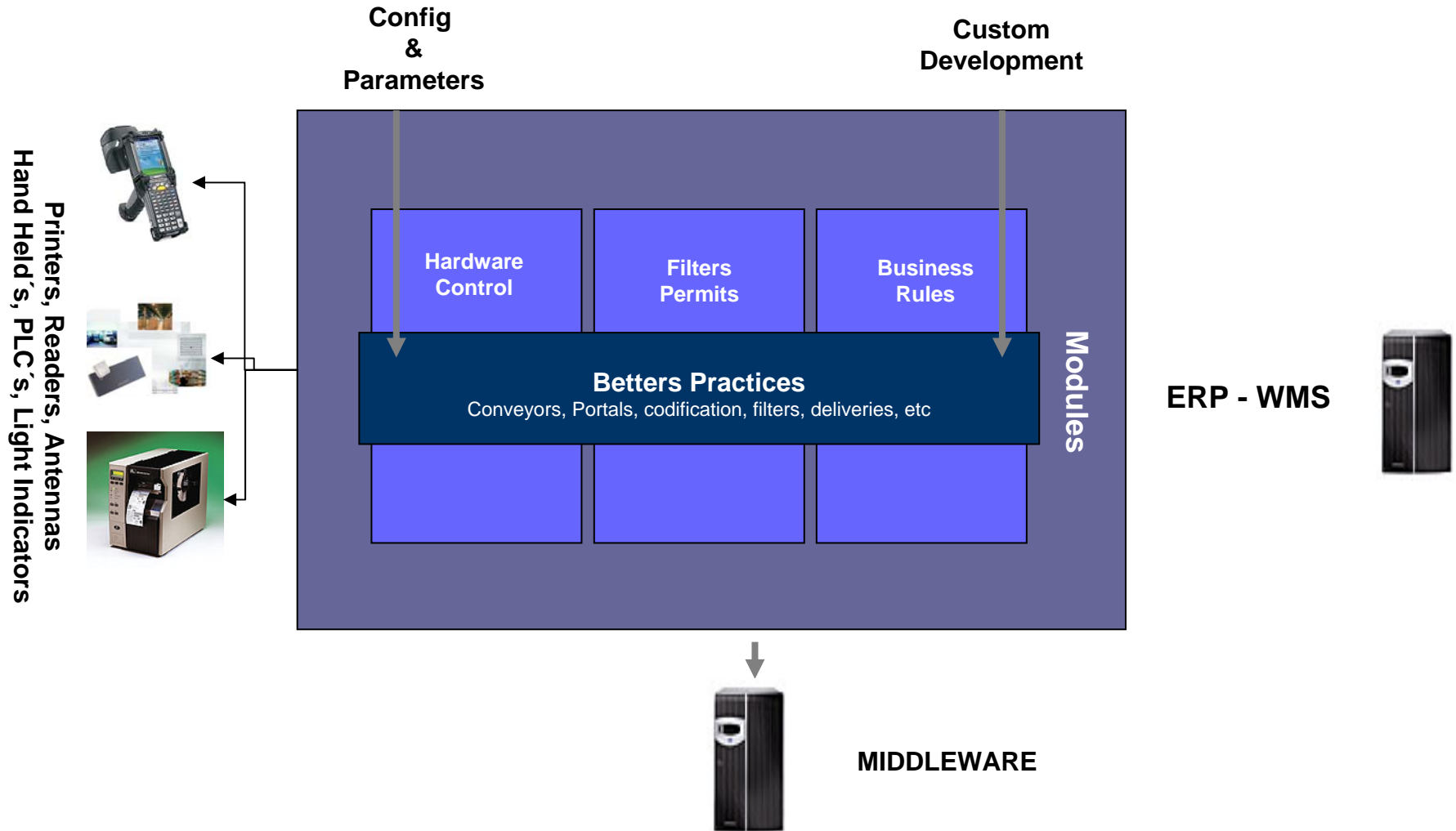
Device Collection

Data is collected and transmitted from devices and sensors throughout your enterprise – including barcode and RFID readers, barcode and smart label printers, as well as production equipment such as palletizers, weigh scales and PLCs

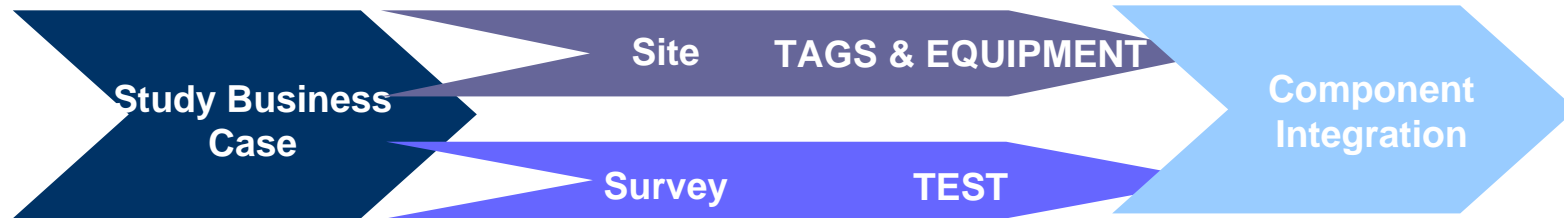
Infrastructure - Middleware



Infrastructure - Middleware



Integration



- Need Vs. Best Practices
- Business Case Description
- ROI
- Process Changes and Definitions

- Work Group
- HW Requirements
- Identify Obstacles
- Read Zone Definitions

- Setup HW.
- Performance Tests.
- Reposition Antennas & Readers

- Process Definitions.
- Business Rules Definitions
- Setup Middleware.
- Custom Development.
- System Components Integration.

RFID – Studied Cases (Grupo Hasar - México)



- Up to now Liverpool Group operates 20 Liverpool Department Stores with an sales floor area of 984,580 square feet and 27 “Fabricas de Francia” Department Stores with an sales floor area of 656,168 square feet.
- It administers most of the important Malls in Mexico like the Commercial Center Perisur, Tabasco 2000 Galleries, Monterrey Galleries, Coapa Galleries, Insurgentes Galleries, Metepec Galleries and Perinorte. In addition has participation in the Commercial Center Santa Fe, Plaza Satellite and Commercial Center Angelopolis.
- Employs more than 23.000 collaborators in all the Mexican Republic, serving to the country through the clothes sale, articles for the home and great new features, developing and promoting there own and exclusive brands in all there Department Stores.

RFID – Studied Cases (Grupo Hasar - México)



Objetives:

- **Benefits in process the income to the Distribution Center.**
- **Diminish shipment errors from stores.**
- **Optimizes the inventories in store.**
- **Reduction in the operative costs.**
- **Eliminates manual merchandise handling.**
- **Reduces the problems by lack of inventory in the sales floor.**
- **It increases the volume of sales.**

RFID – Studied Cases (Grupo Hasar - México)

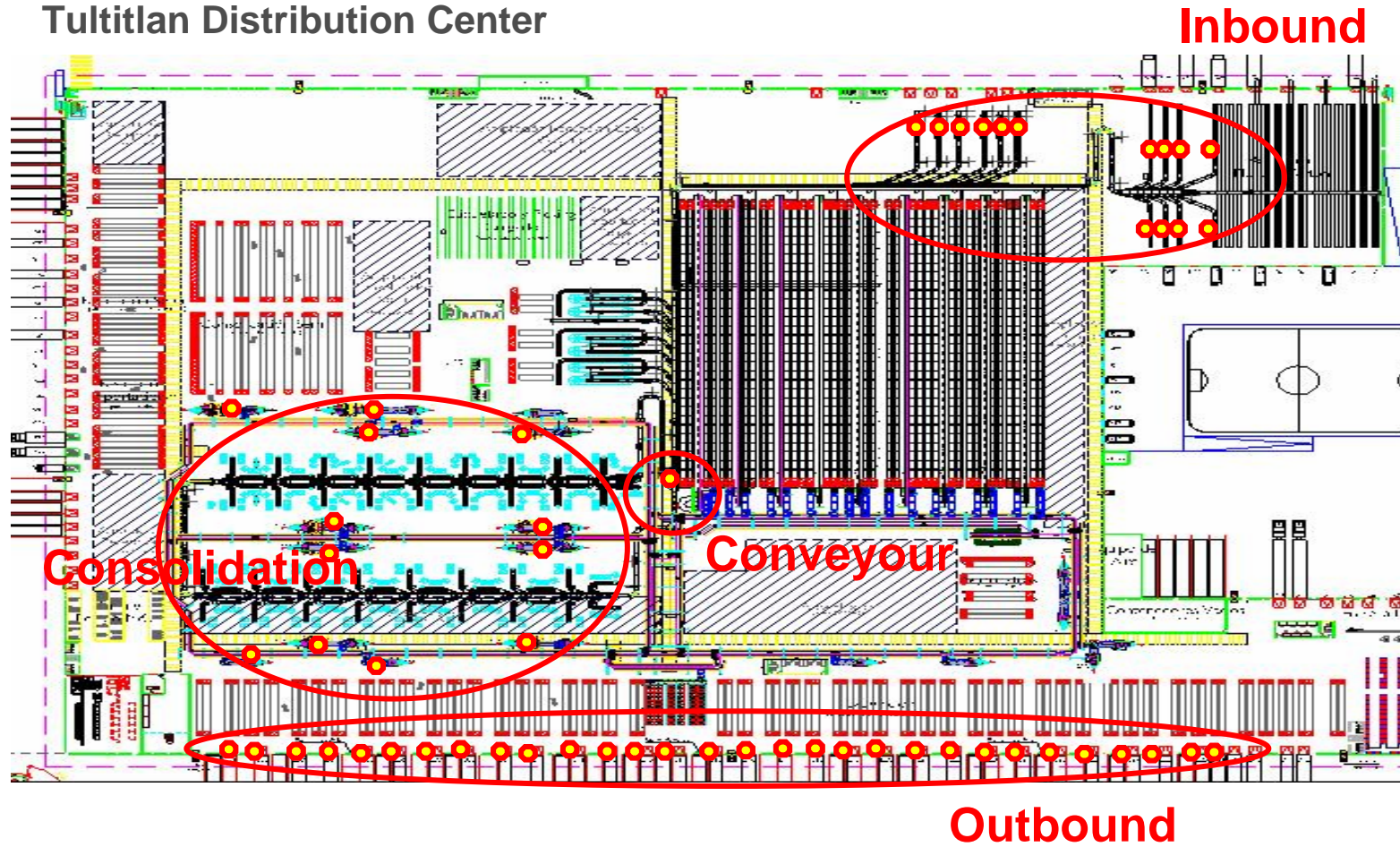


Read Containers	Containers Rotation	Competition Reads	Hasar Mexico Reads
798 containers	1 round: 68 containers 2 rounds: 383 containers 3 rounds: 291 containers 4 rounds: 54 containers 5 rounds: 2 containers	EF: 87% IF: 86% ES: 54% IS: 42% % Average: 69%	EF: 99% IF: 98% ES: 98% IS: 100% % Average: 99%

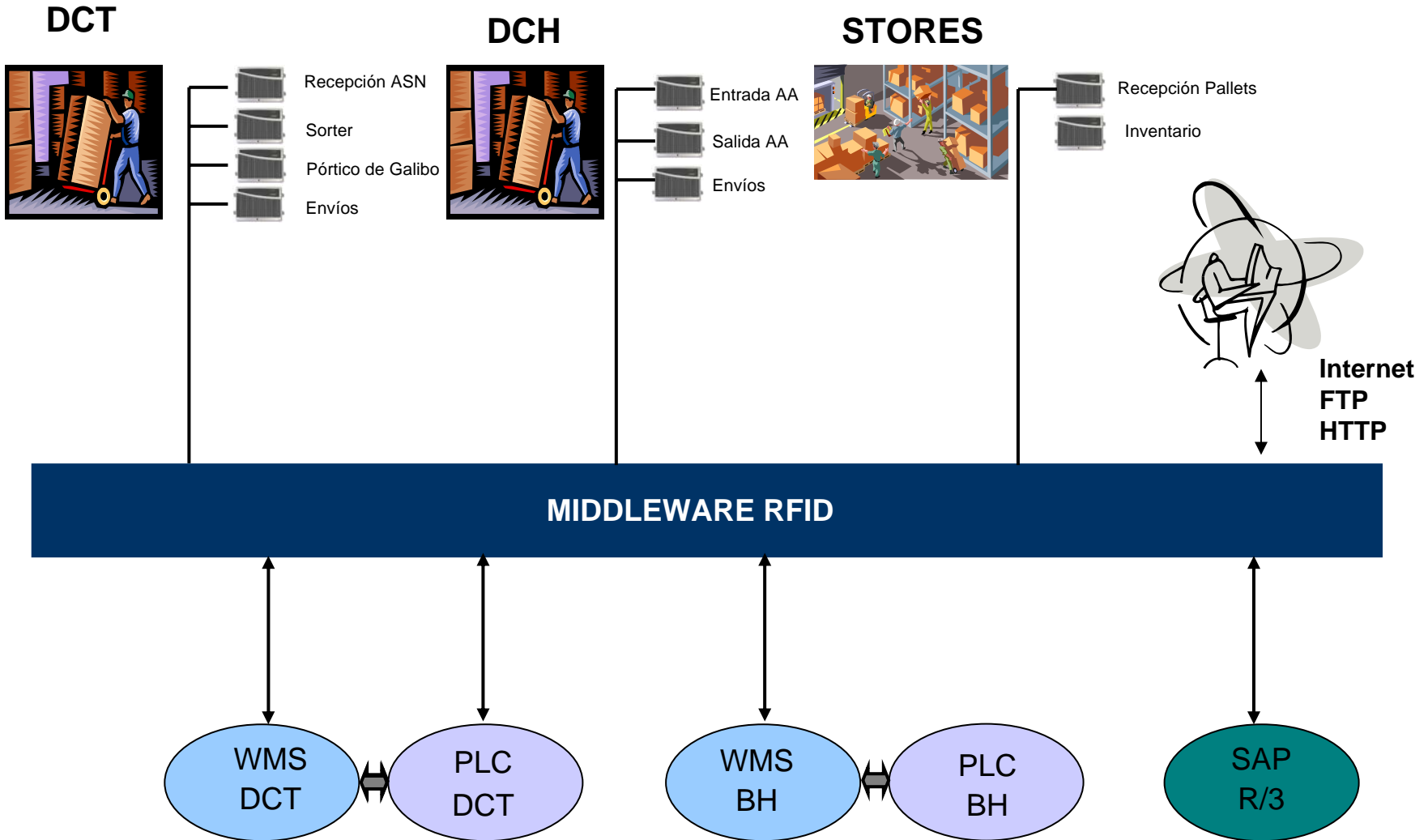


RFID – Studied Cases (Grupo Hasar - México)

Tultitlan Distribution Center



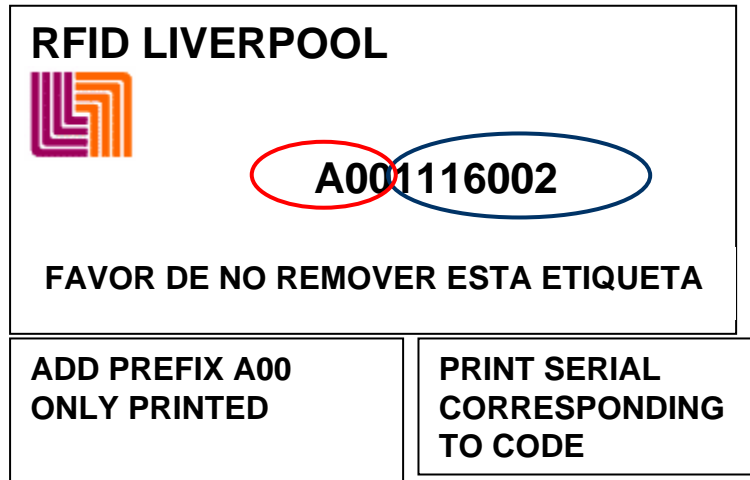
RFID – Studied Cases (Grupo Hasar - México)



Tag Write & Print



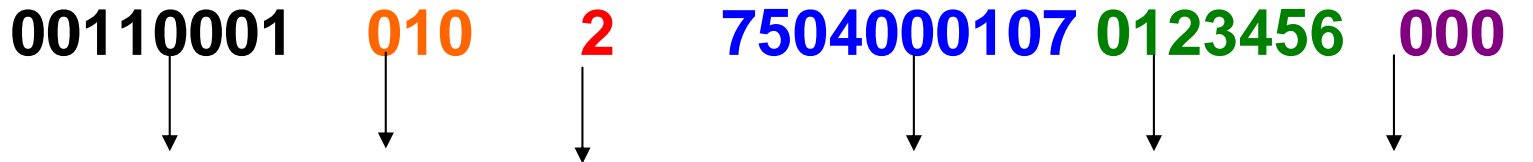
SSCC-96



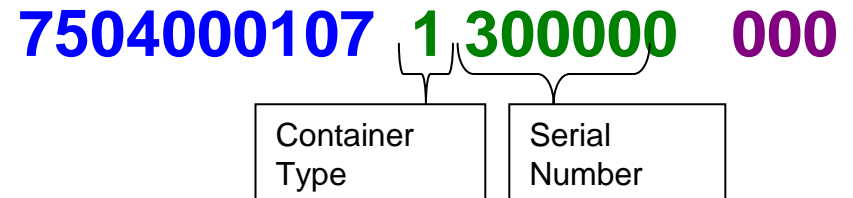
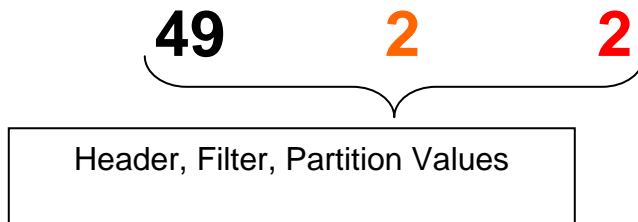
PRINT TAG

SSCC-96

WRITE TAG



Ejemplo:



Container Types:

Container					
TYPE	Blue Container 47x30x19 cm 60x47x33 cm	Orange Container 80x80x75 cm	Hybrid Pallet 120x100x15 cm	Green Container 100x60x32 cm	Box
TYPE VALUE	0	1	2	3	4



RFID – Studied Cases (Grupo Hasar - México)



Thank You for your Time...

Ernesto Arévalo

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Questions

