



■ SAP Communication with LP PagerConnect®

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- **LP PagerConnect®**
- **Yard Management with SAP EWM**
- **System Demonstration**
- **Q & A**
- **LogiPlus – Company Portrait**

LP PagerConnect®

```
1 if(parameters.contains("name")){  
2   hql += " and p.age  
3 }  
4 TypedQuery<Person> query = em.createQuery  
5  
6 if(parameters.contains("name")){  
7   query.setParameter("name", values[0])  
8 }  
9  
10 if(parameters.contains("age")){  
11   query.setParameter("age", Integer.parseInt(values[1]))  
12 }
```

Utilization and benefits

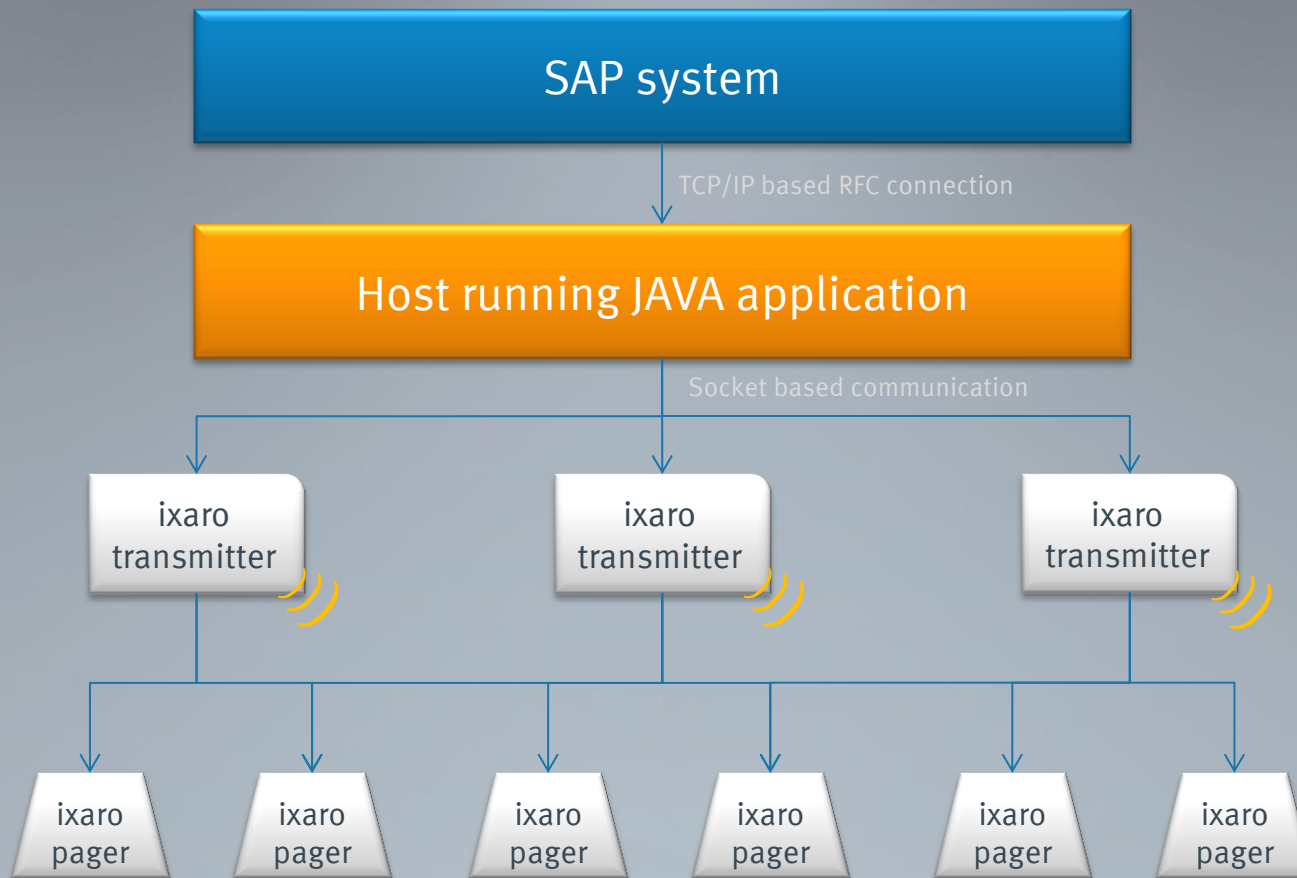
- + Radio pager communication for transmitting short messages to truck drivers
- + Easy and cost-efficient use of robust ixaro hardware
- + The LogiPlus package LP PagerConnect® offers the whole integration into SAP
 - + Transaction-based and automatic messaging
 - + Integration into SAP standard application software, e.g. EWM Yard Management
 - + No “media break”
- + Reliable evaluation of truck waiting times in SAP possible

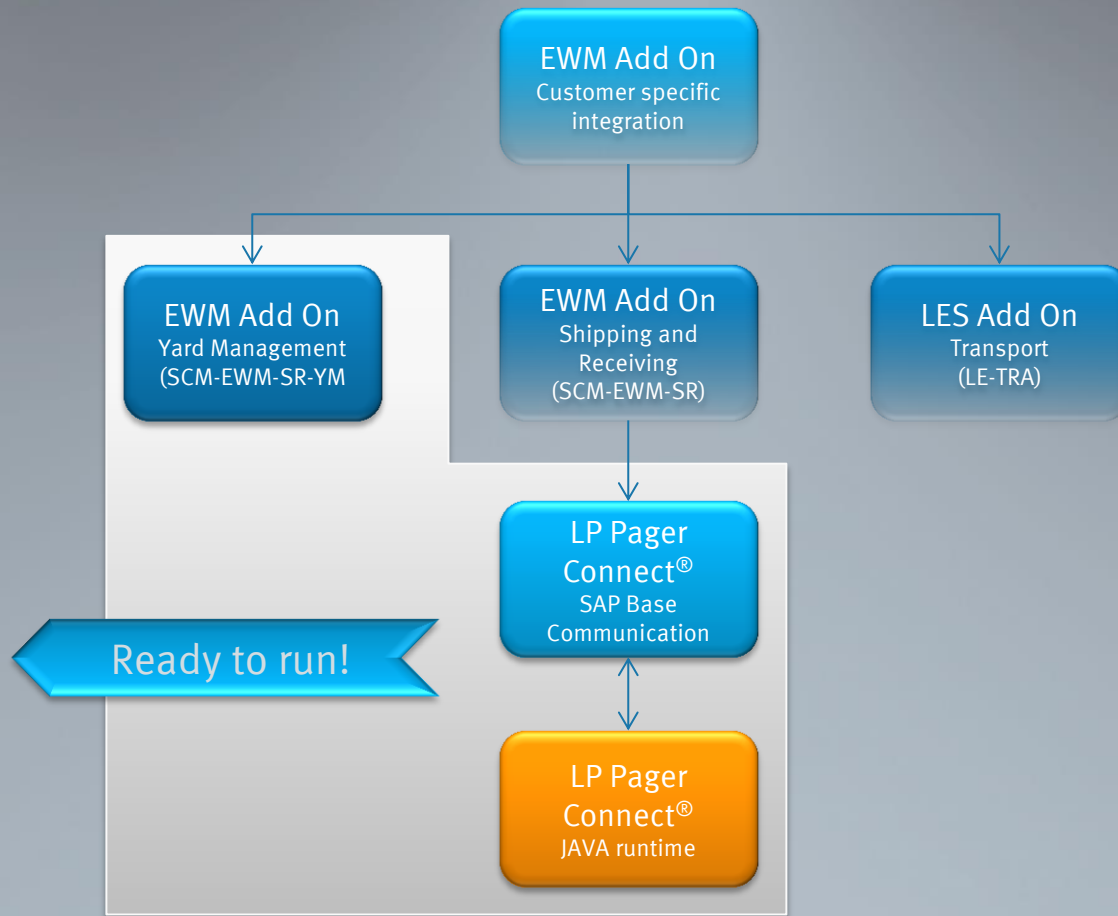


Communication with SAP and transmitter hardware

- + Allows direct communication with your SAP System
 - + Communication via Remote Function Call (TCP/IP)
- + Allows communication with your transmitter hardware
 - + Communication via Java Sockets
- + Consists of three components:
 - + A host-based Java application
 - + A standard communication package in SAP
 - + An enhancement package for your SAP applications









3a Employee in shipping or receiving initiates loading or unloading by transmitting the gate number to the right pager



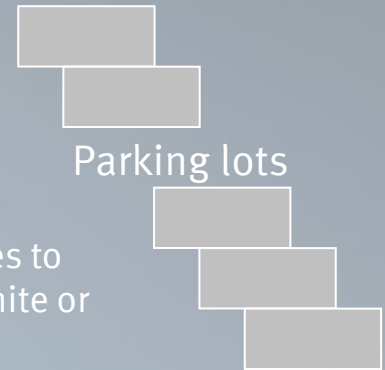
L120

4 Loading / Unloading

3b Truck driver receives instruction at which gate he has to dock



Parking lots



5 Truck driver receives instruction to check out at check point

1 Truck driver is registered at check point and receives a pager

2 Truck driver drives to parking lot (definite or indefinite)



Process in EWM - Example

1. Truck arrives at check point, driver receives a pager, pager number is assigned to TU, TU is registered → **Message to pager: "Welcome!"**
2. Instruction to navigate to parking area is transmitted to system → **Message to pager: "Drive to parking lot X"**, driver navigates from check point to parking area
3. Loading start of TU is set by the system → **Message to pager: "Drive to gate X"**, Truck drives from parking lot to gate
4. Loading end of TU is set by the system → **Message to pager: "Drive to check point X"**, Driver navigates from gate to check point
5. Truck driver returns pager, check point personnel registers departure of the TU



Pager communication in YARD Management

- + Communication-relevant master data are maintained in SAP EWM
- + Control via leading SAP EWM System
- + Truck driver receives system-controlled driving instructions based on warehouse tasks in SAP EWM
 - + Driving instructions contain SAP locations as destinations
 - + Pager communication is initiated in SAP EWM via standard transactions
- + The transmitter and receiver technology is easy and economically to integrate into system landscape



Customer Specific Requirements

- + **Task: Triggering of messages out of customer-specific SAP applications**
- + **Solution: Use of LP PagerConnect® base communication components in SAP**
 - + **RF-Dialogs**
 - + **Internal workstation transactions**
- + **Coordination and implementation services are available on contract basis**



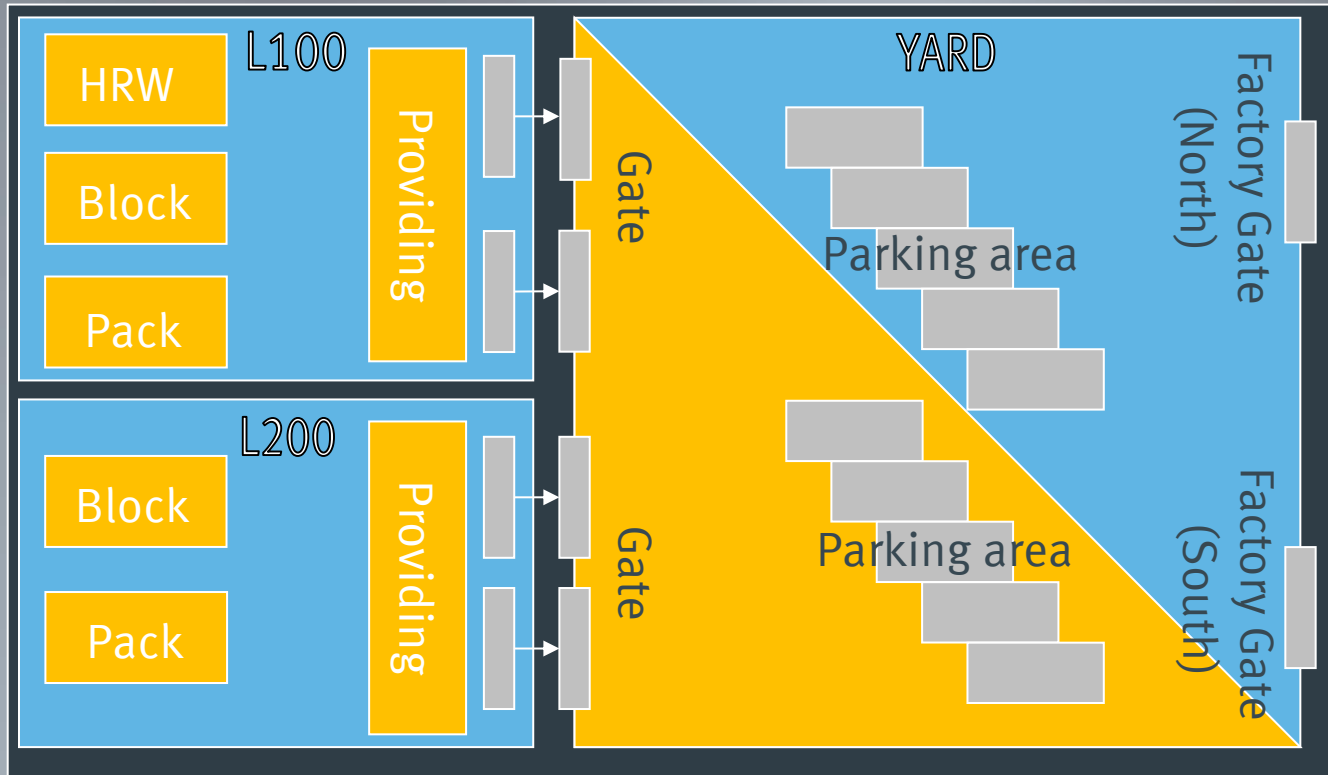
Yard Management in SAP EWM



Characteristics

- + Administration, monitoring and control of the truck yard
- + The YARD is a storage type within an EWM warehouse number
 - + All locations are defined as storage bins (gate, check point, parking lot)
- + Transports are represented by vehicles and TUs
- + Arrival, departure and movements within YARD are controlled via warehouse tasks
 - + Specify destination locations during warehouse task creation
 - + Alternatively an automatic determination of destination locations is possible
- + The position of a transport is known by the system at any point in time!





Key

EWM System

Warehouse Nr.

Warehouse Type

Storage Location



System Demonstration



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LogiPlus – Company Portrait



LP Keyfacts

- + **Founded**
in 1999
- + **LogiPlus Consulting GmbH**
LogiPlus Solution GmbH
Torfstecherring 27
D-67067
- + **LogiPlus Logistics Managements GmbH**
Joseph-von-Frauenhoferstr. 20
D-44227 Dortmund
- + **LogiPlus Büro Berlin**
HeerstraÙe 389
D-13593 Berlin
- + **More than 40 highly specialized employees**



The Plus for you with LogiPlus

- + **Founded by former SAP consultants and software engineers**
- + **More than 25 years of experience in consulting and software engineering, especially in SAP Warehouse Management, logistics consulting and interface development**
- + **Co-development of SAP Logistics Execution System (LES)**
- + **Specialized on Extended Warehouse Management, Logistic Execution and Transportation Management**
- + **SAP Special Expertise Partner for Supply Chain Management**
- + **SAP Value-Added Reseller for EWM**
- + **First SAP Rapid Deployment Solution Partner for EWM**



SAP EWM



- + SAP EWM
- + LP PoweredEWM®
- + SAP MFS Communication
- + LP VisualCOCKPIT®
- + LP PoweredEWM® on Demand

SAP LES



- + Interface development
- + (External) MFS communication
- + RF Dialogs
- + Fork lift control system
- + Shipping processes
- + Scale connection

SAP TRANSPORTATION



- + SAP Transportation Management
- + Connection of CEP service providers
- + LP Direct DPD
- + LP Visual-TourCockpit®

PROJECT MANAGEMENT



- + Project management
- + Process analysis
- + Feasibility studies
- + Performance analyses
- + ROI Studies

CONSULTING



- + Management and process consulting
- + Planning und reorganisation
- + Logistics and DV-reengineering
- + Tenders
- + Implementation