

Design of Information system for e-Logistics

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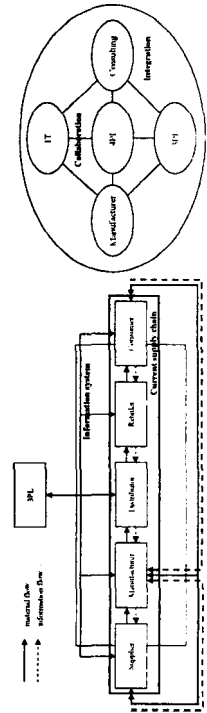
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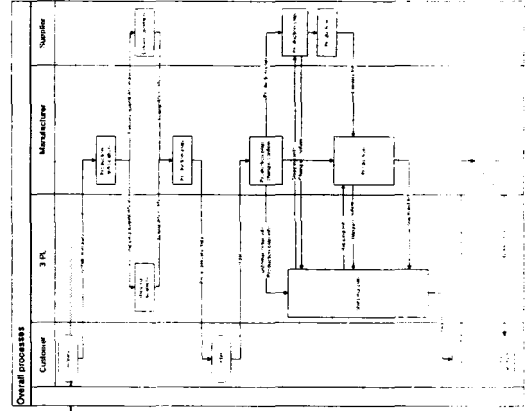
- The objective
 - Design of information system supporting electronic logistics environments
- The Results
 - Environmental analysis for e-Logistics
 - Analysis for logistics business process
 - Modeling logistics business process using UMM
 - Developing electronic documents
- Concluding remarks

Logistics environments

- e-Logistics
 - Part of the IT infrastructure for EC and the platform for global logistics management.
 - Major capabilities of the e-Logistics system
 - To provide visibility of the logistics status
 - Real time on-line confirmation of the logistics information
 - Dynamic feedback of the inventory status
 - Information sharing to save time and cost in communication
 - To form virtual teamwork that is not limited by physical locations

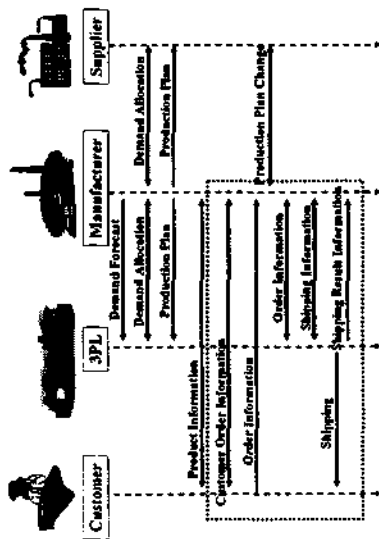


Logistics processes - overall



Logistics processes - Scenario & Scope

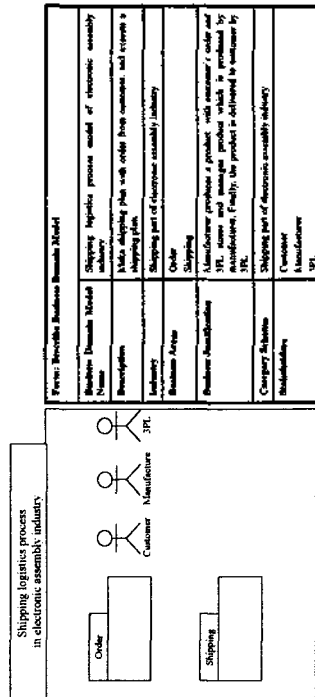
Industry: Electronic Assembly Industry



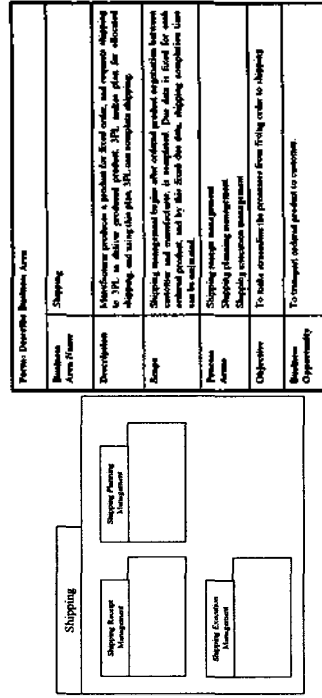
Business operations map

Area	Process Area	Business Process(es)	Business Objectives	Business Transactions
Order	Order entry	Order entry	Order entry	Order entry
	Order processing	Order processing	Order processing	Order processing
	Order fulfillment	Order fulfillment	Order fulfillment	Order fulfillment
	Order tracking	Order tracking	Order tracking	Order tracking
	Order cancellation	Order cancellation	Order cancellation	Order cancellation
	Order return	Order return	Order return	Order return
	Order dispute	Order dispute	Order dispute	Order dispute
	Order audit	Order audit	Order audit	Order audit
	Order review	Order review	Order review	Order review
	Order reporting	Order reporting	Order reporting	Order reporting
Inventory	Inventory management	Inventory management	Inventory management	Inventory management
	Inventory tracking	Inventory tracking	Inventory tracking	Inventory tracking
	Inventory forecasting	Inventory forecasting	Inventory forecasting	Inventory forecasting
	Inventory replenishment	Inventory replenishment	Inventory replenishment	Inventory replenishment
	Inventory optimization	Inventory optimization	Inventory optimization	Inventory optimization
	Inventory control	Inventory control	Inventory control	Inventory control
	Inventory audit	Inventory audit	Inventory audit	Inventory audit
	Inventory reporting	Inventory reporting	Inventory reporting	Inventory reporting
	Inventory analysis	Inventory analysis	Inventory analysis	Inventory analysis
	Inventory planning	Inventory planning	Inventory planning	Inventory planning

Business Domain Model

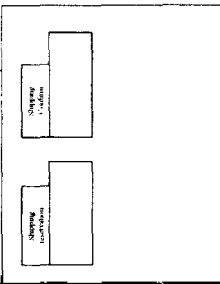


Business Area



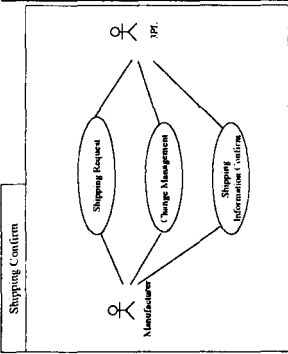
Process Area

Shipping Receipt Management



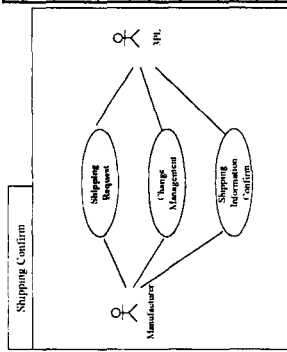
Form: Describe Process Area	
Process Area Name	Shipping receipt management
Description	Manufacture and shipping facilities in YPL and receive data for shipping. For received order, manufacturer requests a shipping to YPL.
Objective	Receive shipping for final order.
Scope	For final order, receive a shipping date and request shipping for order. Make a receipt.
Business Opportunity	To avoid a delay and to make right shipping information data.
Company	Shipping
Business Process	Shipping reservation Shipping confirmation

Business Process



Form: Describe Business Process (BP)	
Business Process Name	Shipping Confirmation
Description	For received shipping, manufacturer request a shipping request to YPL. After that, YPL requests to manufacturer the shipping reservation request information and manufacturer is sending or provide shipping and shipping (date) confirmed.
Participants	Request a shipping for received order.
Prerequisites	Manufacturer
Ends When	YPL
Exceptions	Shipping request Shipping information confirmation
Process Area	Shipping receipt management
Business Area	Shipping

Business Process



Form: Describe Business Process	
Business Process Name	Shipping reservation
Description	For received order, manufacturer request a shipping reservation to YPL. After YPL response to request.
Business Opportunity	Request reservation of shipping reservation.
Participants	Manufacturer YPL
Prerequisites	Existing order for which shipping reservation process is completed
Ends When	Request shipping reservation receipt
Exceptions	Confirm shipping reservation receipt
Process Area	Shipping reservation of received order
Business Area	Source of all of shipping reservation

Business Collaboration Specification (Worksheet)

Form: Business Collaboration Specification	
Business Collaboration Specification Name	Shipping reservation
Business Collaboration Specification Type	Business Collaboration Request
Description	For received order, manufacturer request reservation of shipping reservation to YPL. After YPL response to request.
Participants	Request a shipping Manufacturer
Prerequisites	Existing order for which shipping reservation process is completed
Ends When	Request of shipping reservation
Exceptions	Confirmation of shipping reservation receipt
Process Area	Shipping reservation of received order
Business Area	Source of all of shipping reservation
Business Collaboration Lifespan(s)	Shipping reservation 1. Full the shipping reservation facts 2. Make receipt of shipping reservation 3. Finish shipping reservation

Concluding remarks

- **What we have done**
 - Analysis of e-Logistics environments
 - Analysis of logistics business processes
 - Design of business processes using UMM
 - Develop electronic documents focusing on electronic assembly industry

- **Further researches**
 - Extended analysis and design
 - The processes for extended logistic-focused company
 - The processes reflecting international logistics