E-Commerce Services

Electronic Commerce



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• Course: Electronic Commerce

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• D. of Information & Electronic Commerce

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00. Contents

- 01. Electronic Commerce Payments
- 02. Order Fulfillment
- 03. Other EC Support Services

- The Payment Revolution
 - Crucial factors that determine whether a method of e-payment achieves critical mass:
 - Independence
 - Interoperability and portability
 - Security
 - Anonymity
 - Divisibility
 - Ease of use
 - Transaction fees
 - Regulations





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- Using Payment Cards Online
 - Payment card
 - Electronic card that contains information that can be used for payment purposes.
 - Types of payment cards
 - Credit cards
 - Charge cards
 - Debit cards



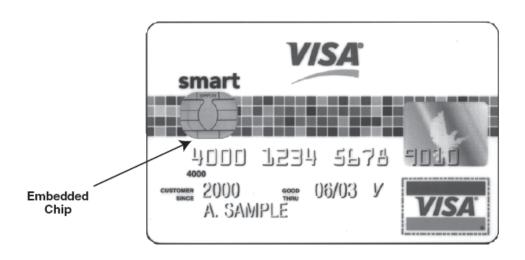
- Using Payment Cards Online
 - Authorization
 - Determines whether a buyer's card is active and whether the customer has sufficient funds.
 - Settlement
 - Transferring money from the buyer's to the merchant's account.
 - Payment service provider (PSP)

• A third-party service connecting a merchant's EC systems to the appropriate acquirers; PSPs must be registered with the various card associations they support.

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- Smart Card
 - An electronic card containing an embedded microchip that enables predefined operations or the addition, deletion, or manipulation of information on the card.



- Smart Card
 - Types of smart cards
 - Contact card
 - A smart card containing a small gold plate on the face that when inserted in a smart card reader makes contact and passes data to and from the embedded microchip.
 - · Contactless (proximity) card

 A smart card with an embedded antenna, by means of which data and applications are passed to and from a card reader unit or other device without contact between the card and the card reader.



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- Smart Card
 - Smart card reader
 - Activates and reads the contents of the chip on a smart card, usually passing the information on to a host system.
 - Smart card operating system
 - Special system that handles file management, security, input/output (I/O), and command execution and provides an application programming interface (API) for a smart card.



- Stored-Value Cards
 - A card that has monetary value loaded onto it and that usually is rechargeable.



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- E-Micropayments
 - Small online payments, typically under \$5.
 - Five basic micropayment models:
 - Aggregation
 - Direct payment
 - Stored value
 - Subscriptions
 - Á la carte



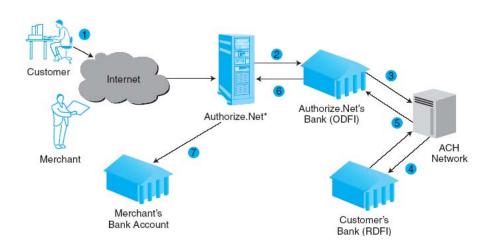
- E-Check
 - A legally valid electronic version or representation of a paper check.
 - ACH(Automated Clearing House) Network
 - A nationwide batch-oriented electronic funds transfer system that provides for the interbank clearing of electronic payments for participating financial institutions.



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- E-Check
 - Processing e-checks with Authorize.net



- Enterprise invoice presentment and payment (EIPP)
 - A B2B electronic payments
 - Presenting and paying B2B invoices online.
 - EIPP models
 - Seller direct
 - Buyer direct
 - Consolidator



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- Enterprise invoice presentment and payment (EIPP)
 - EIPP options
 - ACH network
 - Purchasing cards (p-cards)
 - Special-purpose payment cards issued to a company's employees to be used solely for purchasing nonstrategic materials and services up to a preset dollar limit.
 - Fedwire
 - Letter of credit (L/C)
 - A written agreement by a bank to pay the seller, on account of the buyer, a sum of money upon presentation of certain documents.



- Order Fulfillment
 - All the activities needed to provide customers with their ordered goods and services, including related customer services.
 - Back-office operations
 - The activities that support fulfillment of orders, such as packing, delivery, accounting, inventory management and shipping
 - Front-office operations
 - The business processes, such as sales and advertising, that are visible to customers.



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- Logistics
 - The operations involved in the efficient and effective flow and storage of goods, services, and related information from point of origin to point of consumption.



- The EC Order Fulfillment Process
 - Step 1: Making sure the customer will pay
 - Step 2: Checking for in-stock availability
 - Step 3: Arranging shipments
 - Step 4: Insurance
 - Step 5: Replenishment
 - Step 6: In-house production
 - Step 7: Use contractors
 - Step 8: Contacts with customers
 - Step 9: Returns

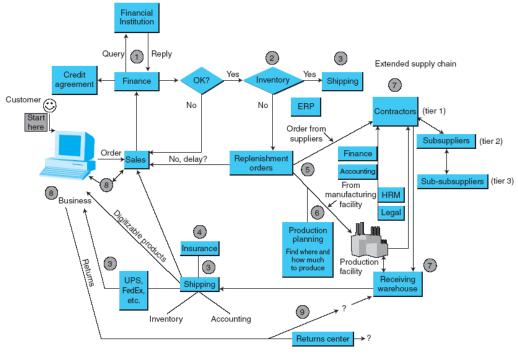


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02. Order Fulfillment

• Order Fulfillment and the Logistics Systems



- Reverse logistics
 - The movement of returns from customers to vendors.

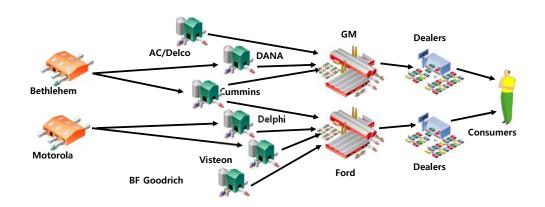


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02. Order Fulfillment

• Order Fulfillment and the Supply Chain



- Traditional vs. EC Logistics
 - E-logistics
 - The logistics of EC systems, typically involving small parcels sent to many customers' homes (in B2C).



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- Typical supply chain problems
 - Third-party logistics suppliers (3PL)
 - External, rather than in-house, providers of logistics services.



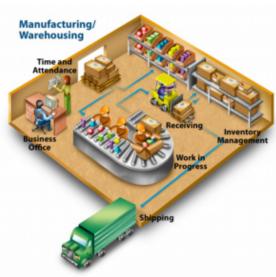
- Solutions to Order Fulfillment Problems
 - Improvements in the order-taking process



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- Solutions to Order Fulfillment Problems
 - Warehouse management system (WMS)
 - A software system that helps in managing warehouses.
 - Other inventory management improvements
 - Automated warehouses



- Solutions to Order Fulfillment Problems
 - Partnering efforts and outsourcing logistics
 - Comprehensive logistics services



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- Solutions to Order Fulfillment Problems
 - Speeding deliveries



- Solutions to Order Fulfillment Problems
 - Handling returns (reverse logistics)
 - Return the item to the place of purchase
 - Separate the logistics of returns from the logistics of delivery
 - Completely outsource returns
 - Allow the customer to physically drop the returned item at a collection station
 - Auction the returned items



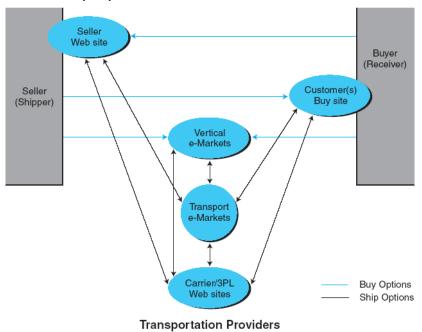
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- Solutions to Order Fulfillment Problems
 - Using BPM to Improve order fulfillment
 - Cf. BPM(Business Process Management)



- Addressing Problems in Order Fulfillment
 - B2B bus and ship options



Introduction to Electronic Commerce, Ed. 2, Efraim Turban et al., Pearson

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03. Other EC Support Services

• Consulting Services



03. Other EC Support Services

- EC Outsourcing Services
 - Major reasons why many companies outsource:
 - A desire to concentrate on the core business
 - The need to have services up and running rapidly
 - Lack of expertise for many of the required support services
 - The inability to have the economy of scale enjoyed by outsourcers
 - Inability to keep up with rapidly fluctuating demands if an in-house option is used
 - The number of required services, which usually are simply too many for one company to handle

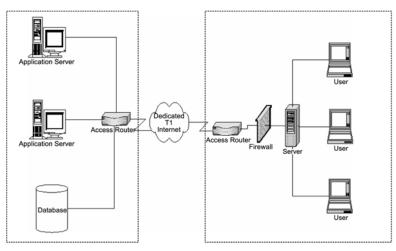


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03. Other EC Support Services

- IT Outsourcing and Application Service Providers
 - Application service provider (ASP)
 - An agent or vendor who assembles the functions needed by enterprises and packages them with outsourced development, operation, maintenance, and other services.

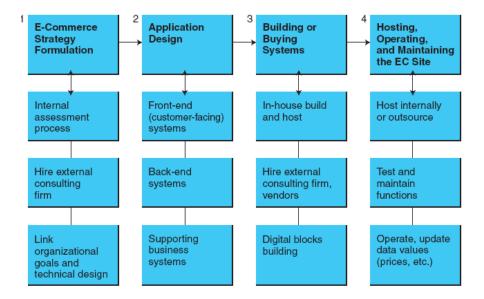


ASP Vendor

Client

03. Other EC Support Services

• E-Commerce Application Development Process



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