Papers and Reports

various components that make up a product or service (electronic commerce).

although these share much with electronic commerce. In fact, in the ultimate

Object Classes

2.3 Bridging the Gap

3.0

models and simulations, and collaborative computing

make more intelligent and effective transaction-related

management, analysis, and interpretation of the various data to

Customer service entails

transactions in the accounts receivable and accounts payable,

products. And in some cases, as with the free information

that should accompany the payment. Sometimes, a seller may

writing, or electronic. It usually includes an acknowledgment of

generally issued as an order that sets forth the quantity, price,

usage rights, distribution rights, etc. These terms can be

4.2.2 Negotiating

4.2.1 Advertising and Shopping

next describe the specific activities and functions this

reports, and holdings, as well as bodies of commercial law.

electronic commerce domain. These include paper checks,

their product usage. Meterware, electronic cash and checks that

happen virtually simultaneously.

customer-driven activity -- a design phase -- to the purchase

selection of articles to be bound in an electronic book, or

boarding gates. Many of these products will not be simply

example, in their pricing strategy and in their assumptions as to

in their approach to security and privacy, their ability to handle

with a broad architectural framework. This framework must

appears on her display.

warehouse brokerages that enabled automated responses and

launches a national search for a list of warehouse brokers and

tasked upon receipt of the application form. Since the

electronic agent to obtain the confirmations and to watch for

appears on her display.

Where do we stand?

requisite means, technological and otherwise, of settling

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Corporation for National Research Initiatives, 1995).

Information Infrastructure

Last update: 7/12/99

Information cited here is based on conversations with Donn Parker.

Cross-Industry Working Team,

5.1 Electronic Commerce Architecture

of

be easily converted to digital form. Similarly, participants in a

and returns its projected benefits.

content of education. Certainly, there will be an interplay among

granted, ranging from the security of physical facilities to the

projections, electronic commerce mechanisms may push up the

compromised in overlapping transactions. Based on growth

NII given the issues of rapid technology evolution and the ability

environments. This area promises to be more challenging in the

shown that there are large tradeoffs to be made in cost and

prevention of such serious threats as deception, fraud,

confidentiality and security, since this area is a particularly

constructed from even partial data, assurances may have to be

necessary assurances to the receiver of the payment that the

are authorized. On the other hand, the involved parties must be

confirmations and verifications of all transactions. Sound

trails with all of the features of nonelectronic information. Cash

The rapid execution of payment instructions and automated

established business practices and laws.

turn, it suggests that many existing business practices will be

opportunities of electronic commerce in the NII. It points to the

infrastructures, E-commerce architecture can be defined in terms of

digital objects (e.g., electronic documents, software agents). An

usage concerns.

updating, retrieving, routing, pricing, and maintaining a

advanced navigation services such as maintaining hyperlinks,

and control of electronic transactions by automating many

example. This capability for selective incremental expansion

updating and extending capability. A translator could be

desirable to authorize a user in terms of her location and

specified conditions, time intervals, and/or prices.

services and information. User authorizations can be provided

Once authenticated, users need to be authorized for requested

commerce service infrastructure. Electronic commerce system

Security is a critical component of any electronic commerce

with the consent, approval, and active cooperation of the user.

Transactions can be reversed, repaired, disputed, monitored,