Forward e-business Technical Environment

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Forward e-business Technical Environment

<u>Architectural Principles:</u>
- o Based on the n-tiered architecture with a "Thin Client"
- o Designed according to the "Object Oriented" principles
- o Implemented using JAVA and the J2EE platform (Java^{TM} 2 Platform, Enterprise Edition)
- o Optimised with J2ME (Java^{TM} 2 Platform, Micro Edition)
  (for tiny commodities such as smart cards & wap)

<u>Architectural Advantages:</u>
- o Platform Independence, "Write Once, Run Anywhere^{TM}," portability
- o Data Base Independence (use of JDBC, Java Data Base Connectivity)
- o Ease of Development, Maintenance & Installation
- o Reusability, Modularity, Scalability
- o Internationalisation (National Language Support)
- o Improved Security
  (Authentication, Authorization, Cryptography, Secure Sockets)
- o Minimised "Total Cost of Ownership" (Lightweight, distributed model)

<u>Presentation Technologies:</u>
- o HTML, DHTML, JavaScript (User presentation & interface)
- o XML (Dynamic, Well-formed, portable data formation & presentation)
- o Java Applets

<u>Component Technologies:</u>
- o Servlets (Object Oriented abstractions for building dynamic Web Pages)
- o JSP (Template driven Web application development)
- o EJB (Server Side Components containing Business Logic)
  (Secure, Scalable, Transactional, Multi-User)

<u>Service & Communication Technologies:</u>
- o Java Transaction API (Implementation of distributed transaction applications)
- o JDBC (Cross-vendor RDBMS connectivity, Access across RDBMS of different vendors)
- o JNDI (Access Standardisation to naming & directory services)
- o RMI_IIOP (Remote Interface to Remote Objects across tiers & servers)

<u>Information exchange</u>

- o XML (Information exchange between different classes of clients and different servers, on varied system platforms)