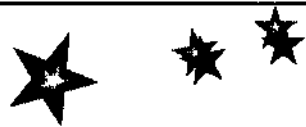
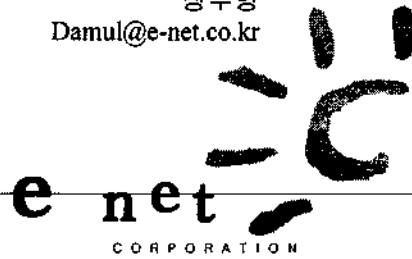


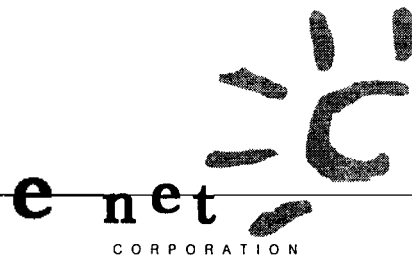
ebXML을 위한 Platform

E-Net 전자상거래 연구소
정수명
Damul@e-net.co.kr



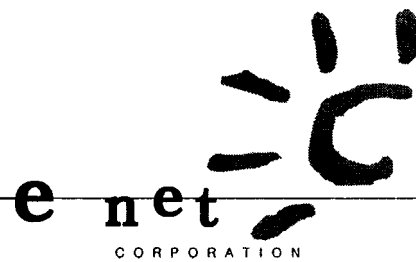
Agenda

- 표준화의 배경
- 대응전략
- XML 소개
- ebXML 소개
- E-Net의 지원



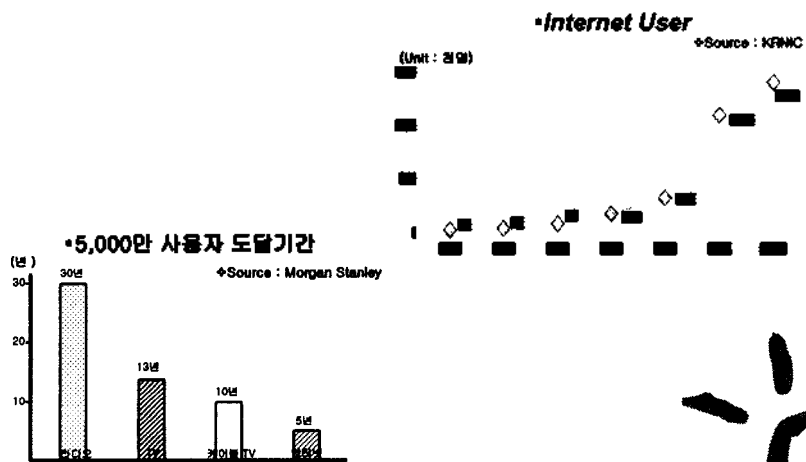


- 표준화의 배경
- 대응전략
- XML 소개
- ebXML 소개
- E-Net의 지원



e-Business Infra의 성장

B₂ALL



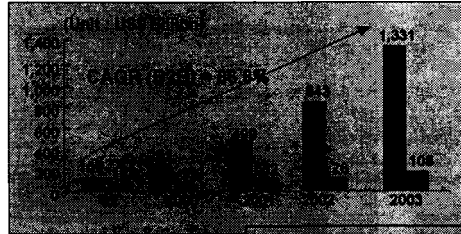
www.enet.com

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e-Business 시장의 성장

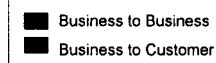
B₂All

- > '99년 약 1,300억불 규모 → 2003년 약 1.4조불 규모로 성장 (연 약 100%성장율)
- > 향후 세계 EC 시장은 B2B 분야가 주도적으로 Leading 할 것으로 전망



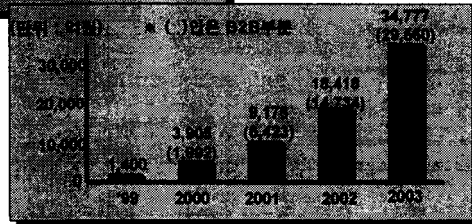
세계 EC 시장규모

Source : Forrester Research



국내 EC 시장규모

자료원 : 엔터스핀넷, 전자상거래 연구조합 평균

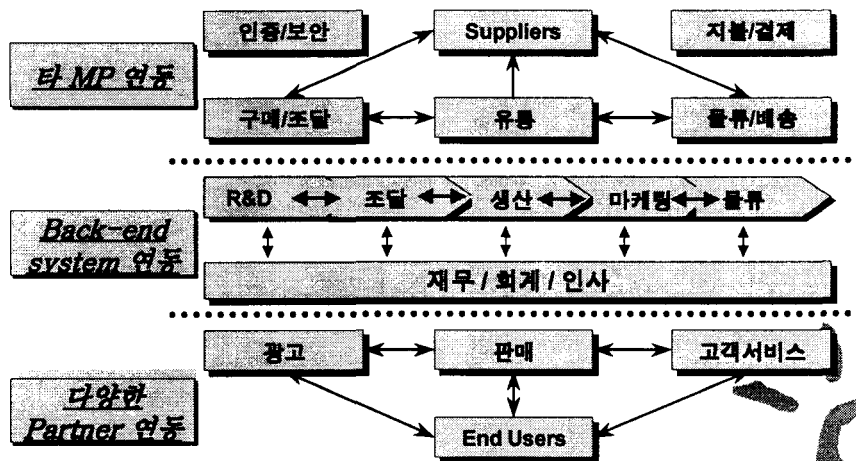


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e-Business의 범위의 확대

B₂All

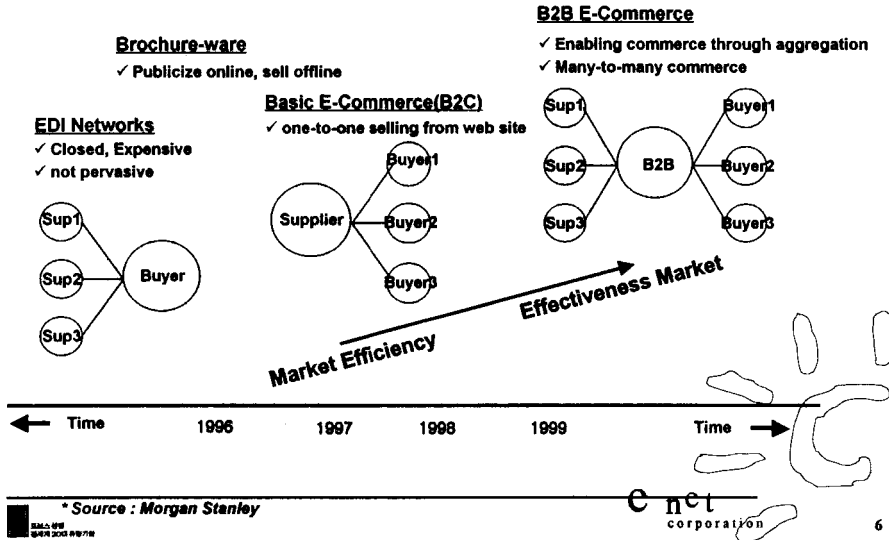


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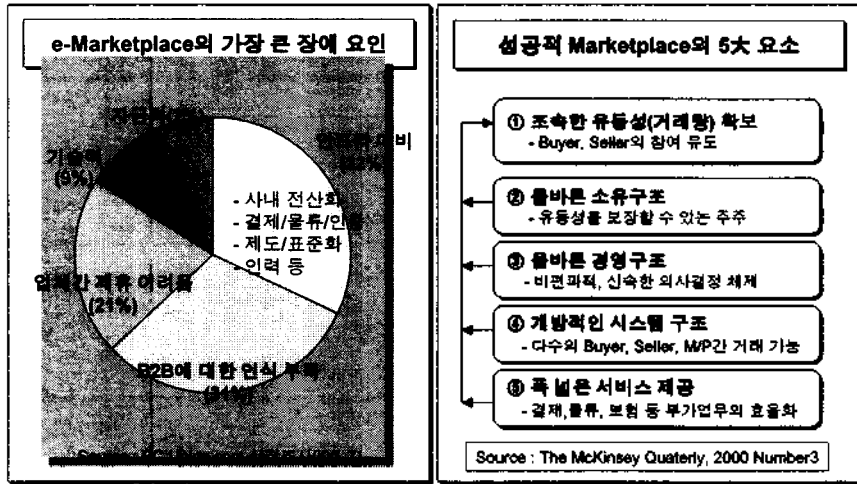
e-Marketplace 진화과정

B₂All



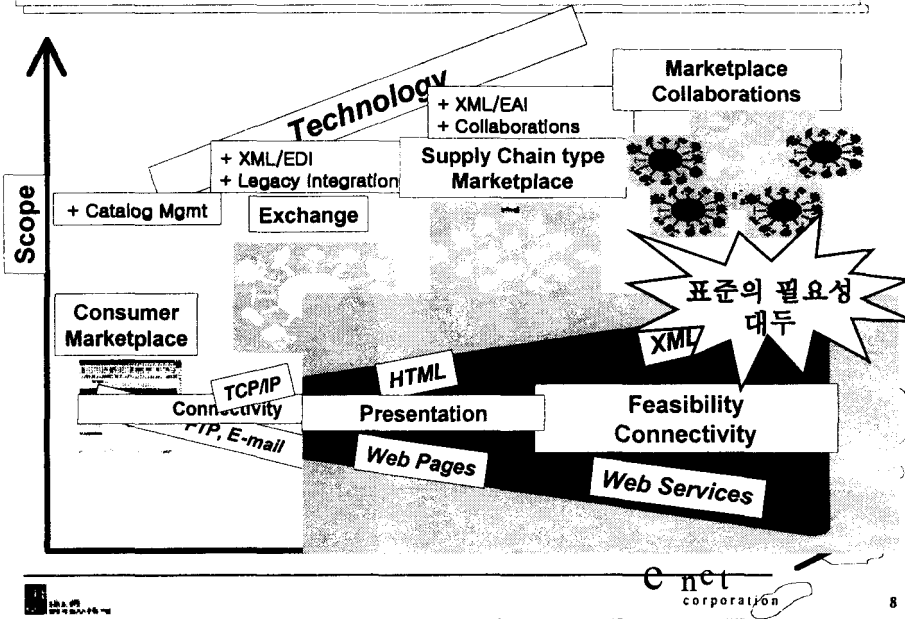
e-Business의 장애요인

B₂All



e-Business 의 미래

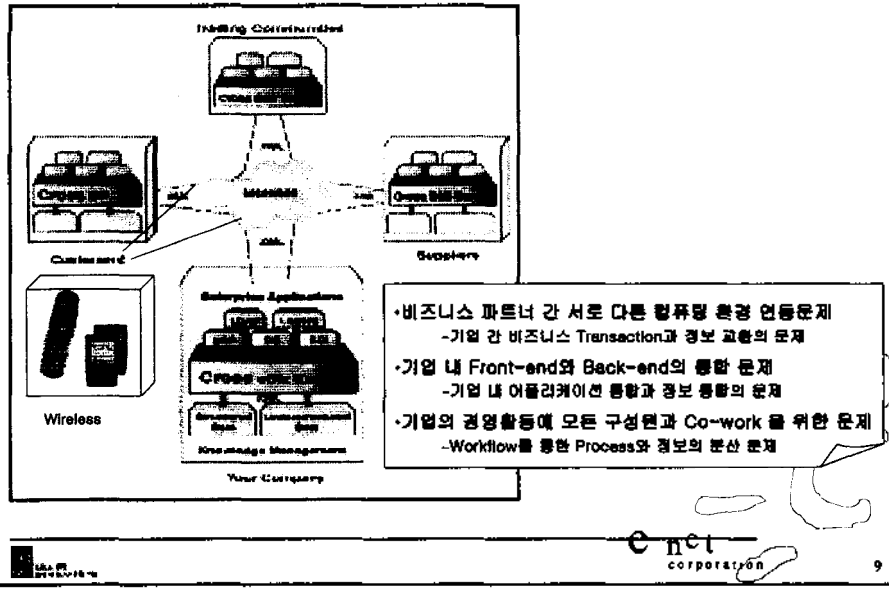
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e-Business의 과제

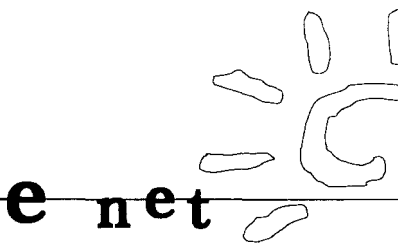
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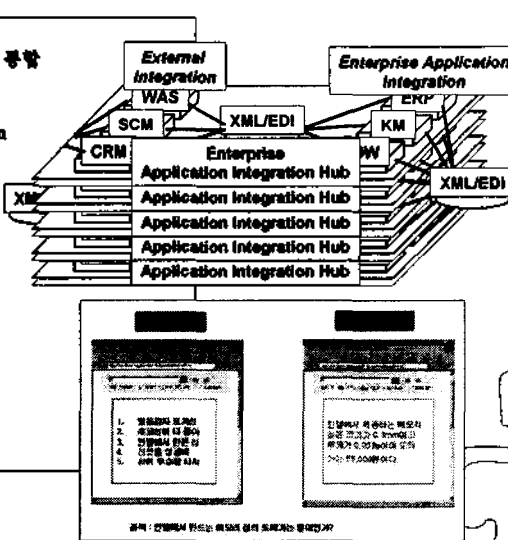
- 표준화의 배경
- 대응전략
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- ebXML 소개
- E-Net의 지원



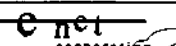
XML을 이용한 정보의 교환

B₂All

- Enterprise Application Integration
 - 기업간 비즈니스 어플리케이션의 통합
 - 기업 내 어플리케이션의 통합
- Advanced Information Mgmt System
 - 시스템 간 데이터 교환
 - Re-Purposing, Re-Tasking
 - Co-Work
 - 모든 유형의 정보자원 관리
- Advanced Search System
 - 구조 검색
 - 상품 카탈로그 검색



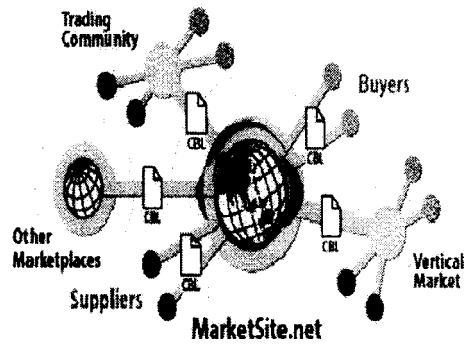
The diagram illustrates a multi-tiered architecture for Enterprise Application Integration. At the top, 'External Integration' (WAS, SCM, CRM, XML) and 'Enterprise Application Integration' (ERP, KM, WWW, XML/EDI) connect to a central 'Enterprise Application Integration Hub'. Below this hub are four stacked 'Application Integration Hub' layers. At the bottom, two computer monitors display search results, with the right monitor showing a detailed product entry.



Marketplace의 통합

B₂All

- Plug and Play Commerce
 - XML 프레임워크에 기반한 모든 Marketplace 참여자에게 상호운용성 제공
- Describe Once, and {Sell,Buy} Anywhere

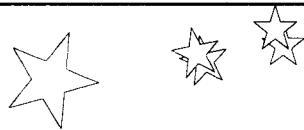


- Common Business Library
- BizTalk framework
- Commerce XML
- Distributed management task force
- ebXML (UN initiative)
- Eco framework
- Open applications group
- RosettaNet
- XML/EDI Guidelines
- European XML/EDI Pilot Project

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- 표준화의 배경
- 대응전략
- XML 소개
- ebXML 소개
- E-Net의 지원

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XML overview

B, All

- SGML(Standard Generalized Markup Language)의 subset
- XML specification은 Element와 Attribute, 그리고 Entity 등을 정의하는 규칙을 기술
- Meta language
- Self-description
- License-free, platform-independent



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Why is XML important?

B, All

- Application development
 - Datastreams to and from applications
 - Visualization process for creating user interface
- Application Integration
 - Mechanism for format of information exchange between foreign applications, tag language (XML) instead of byte ordering
- Content management and complex publishing
 - Corporate portals and extranets
 - Publish to any device on the fly
- Information aggregation



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Why is XML important ? (Cont.)

B₂All

- **Web Architectures**
 - Services exchanging information where data format is unknown, legacy integration
- **Data interchange**
 - Human readable, easily parsed, standardized (ideally) formats (DTDs and Schemas)
- **Workgroup efficiency**
 - Portable document format
 - Application upgrades scale easier



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Features of XML


B₂All

- **Simple**
- **Extensible**
- **Flexible**
- **Portable**
- **Standard**

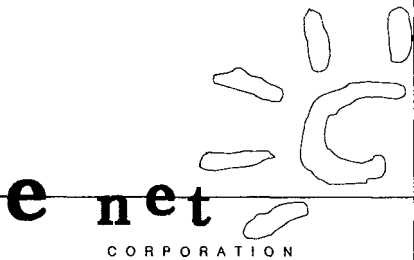
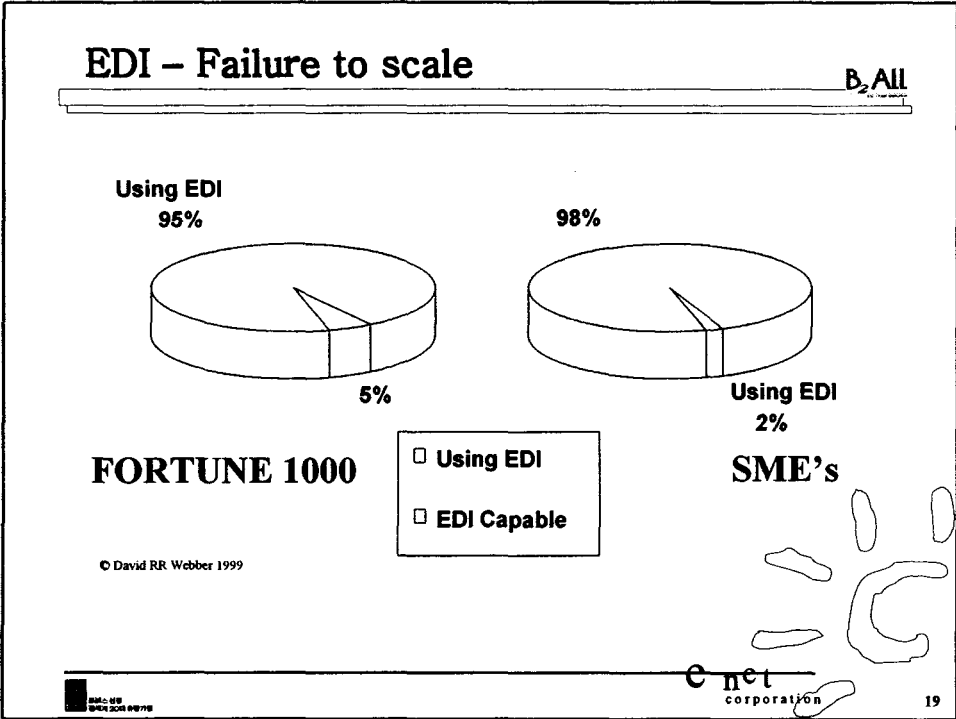


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- 표준화의 배경
- 대응전략
- XML 소개
- ebXML 소개
- E-Net의 지원

Why ebXML ?

B, All

- Need for a common message structure and syntax so that industry-specific XML vocabularies will interoperate

*"Creating a Single Global
Electronic Market TM"*



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What is ebXML

B, All

- Electronic Business XML
- An international initiative established by UN/CEFACT and OASIS
- 18 month project(from Nov 1999)
- Develop common framework for cross-industry process of exchanging message



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Mission of ebXML

B, All

Provide an open XML-based infrastructure enabling the global use of electronic business information in an interoperable, secure and consistent manner by all parties



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ebXML Project Teams

B, All

- Requirements
- Technical Architecture
- Transport, Packaging & Routing
- Registry & Repository
- Business Process
- Core Components
- Technical Coordination
- Marketing & Awareness



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Registry & Repository

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- **Registry**

- A mechanism whereby relevant documents and metadata about them can be registered such that a pointer to their location, and all their meta data, can be retrieved as the result of a query

- **Repository**

- A location or a set of distributed locations where documents pointed at by the registry reside and from which they can be retrieved by conventional (http / ftp) means, perhaps with additional authentication/permission layers



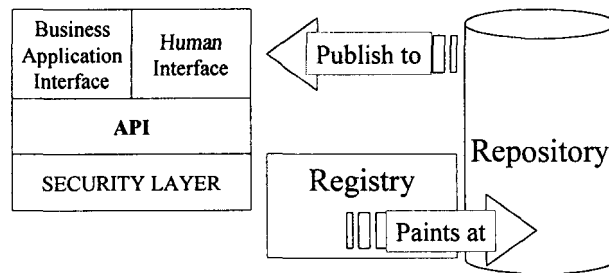
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Registry & Repository

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- **Interface to allow "Process Owners" to submit or update their mapping templates.**
- **Two interface: API(Application), Manual HTTP(Human)**
- **A Security protocol is use to offer authentication, protection and non-repudiation benefits**



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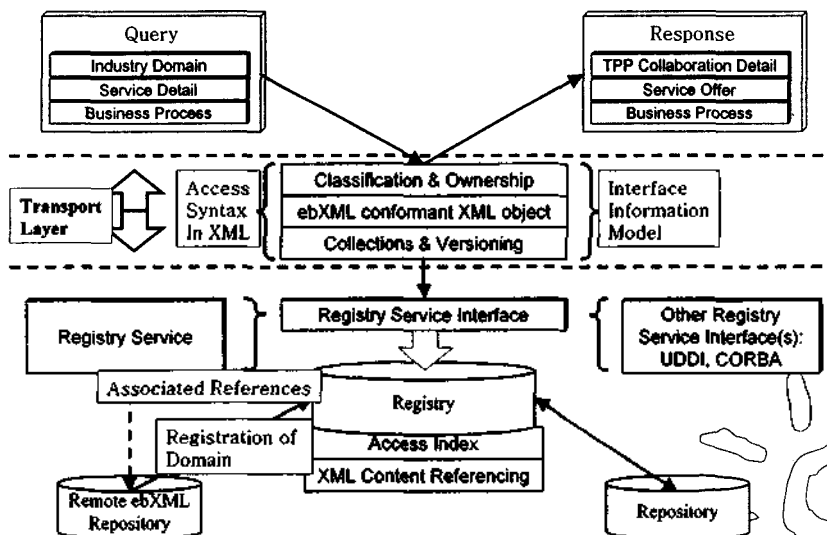
Registry & Repository

B, All

- A Repository is a storage tank for Meta data such as Mapping Templates, business rules, smart document DTD's, dictionaries, libraries and other core components for electronic business
- Repository Search engine must provide
 - Web Search interface for humans to manually locate data
 - API for applications to rapidly access stored data
 - A caching mechanism

Registry/Repository Architecture

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Core Component

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- Elements of the component library that are common to multiple business domains
- Business objects horizontal to many organizations
- Common semantic units at any level consistent across contexts
- Reusable components that can be applied in a standard way within and between business exchange messages



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BP & Information Metamodel

B, All

- Modeling of the business relationships between partners in a shared business process
- BP is defined as a sequenced set of business transactions
- Business transaction is a defined exchange of business messages

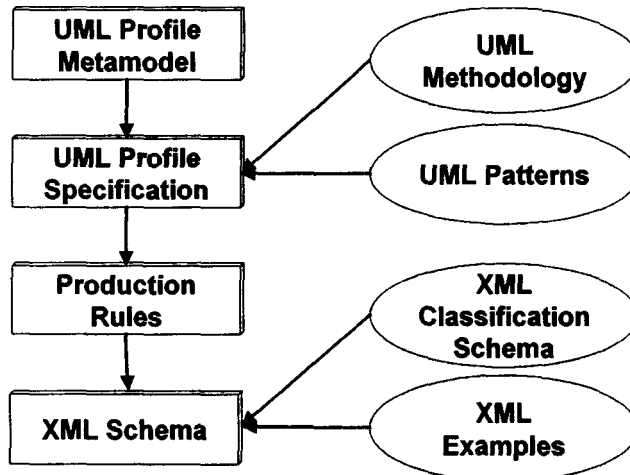


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Relationship of UML to ebXML

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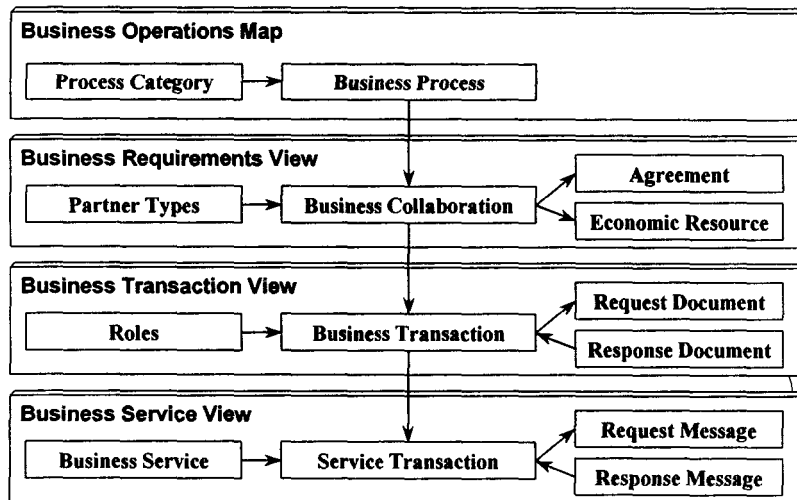
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BP & Information Metamodel Architecture

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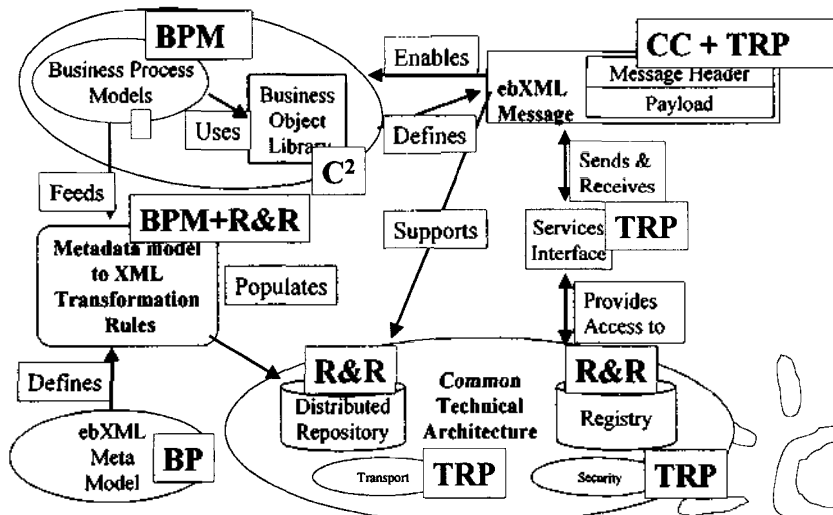
Technical Architecture

B₂ All

- Providing a view for integration of Business Processes(BP)
- Supporting and representing business processes independent of the technical solution
- Integrating with new and legacy systems throughout the enterprise
- Provides a high-level business-centric view of distributed e-business processes
- Provides a library of Common Business Objects
- Leveraging existing technologies and standards

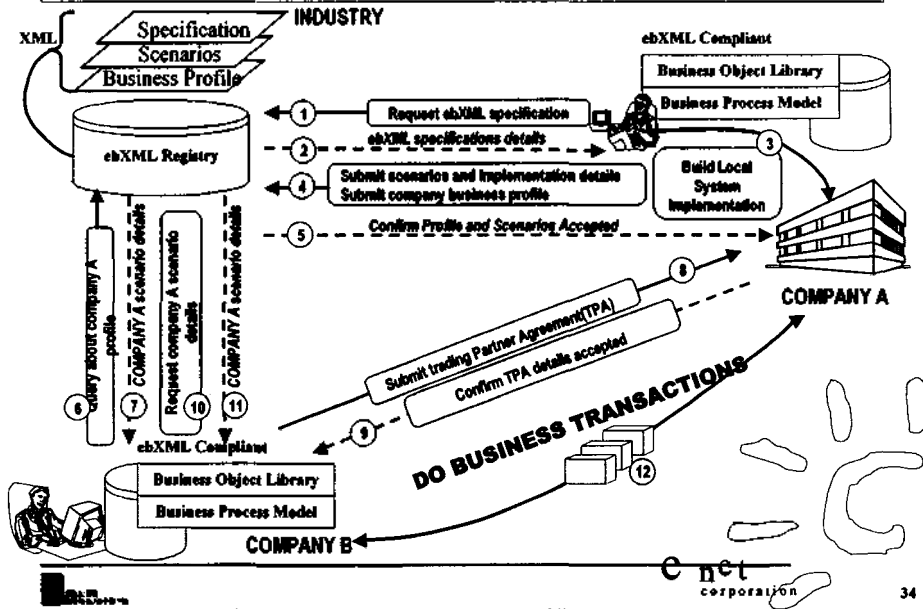
ebXML Architecture – Conceptual model

B₂ All



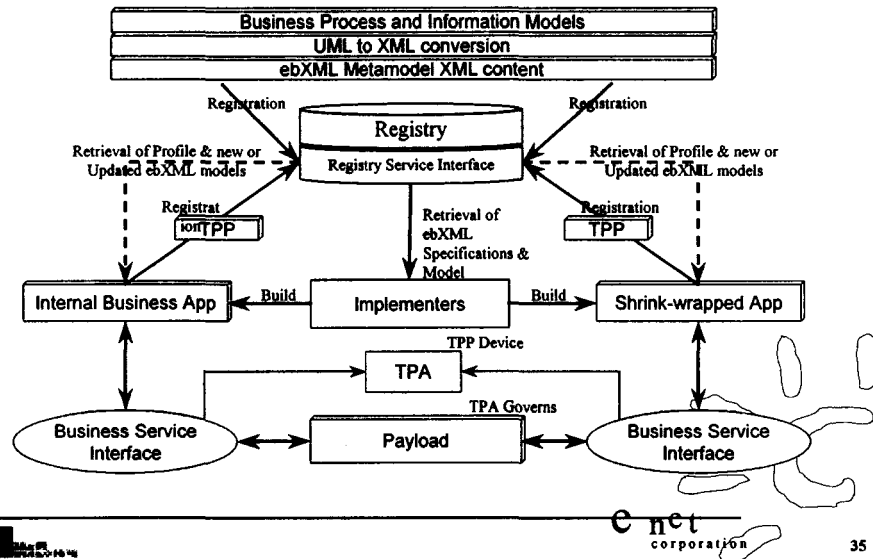
Overview of ebXML Functionality

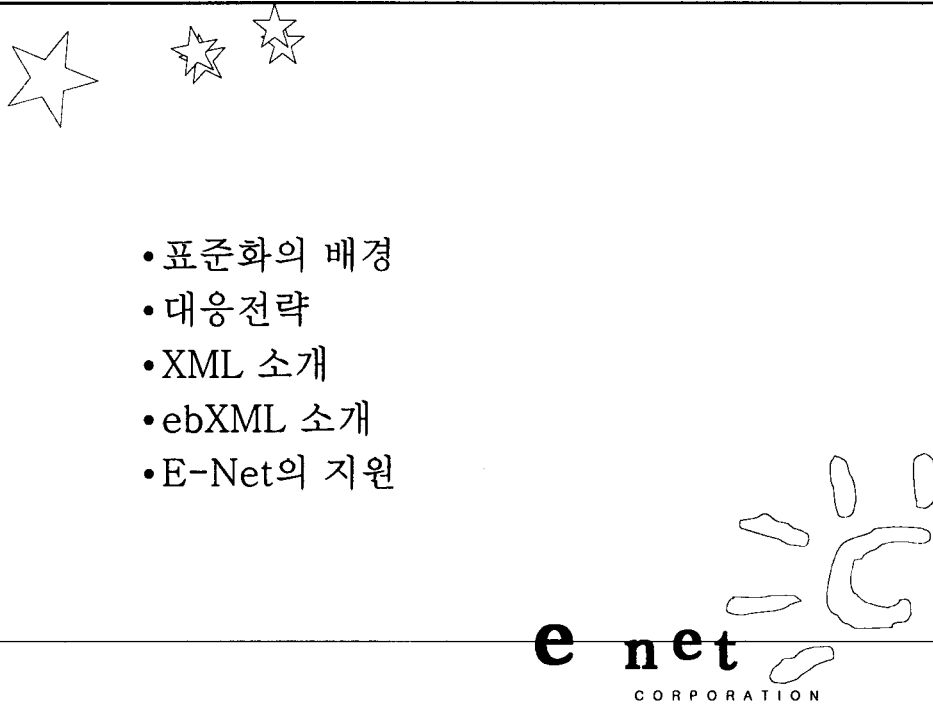
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ebXML Functional Service View

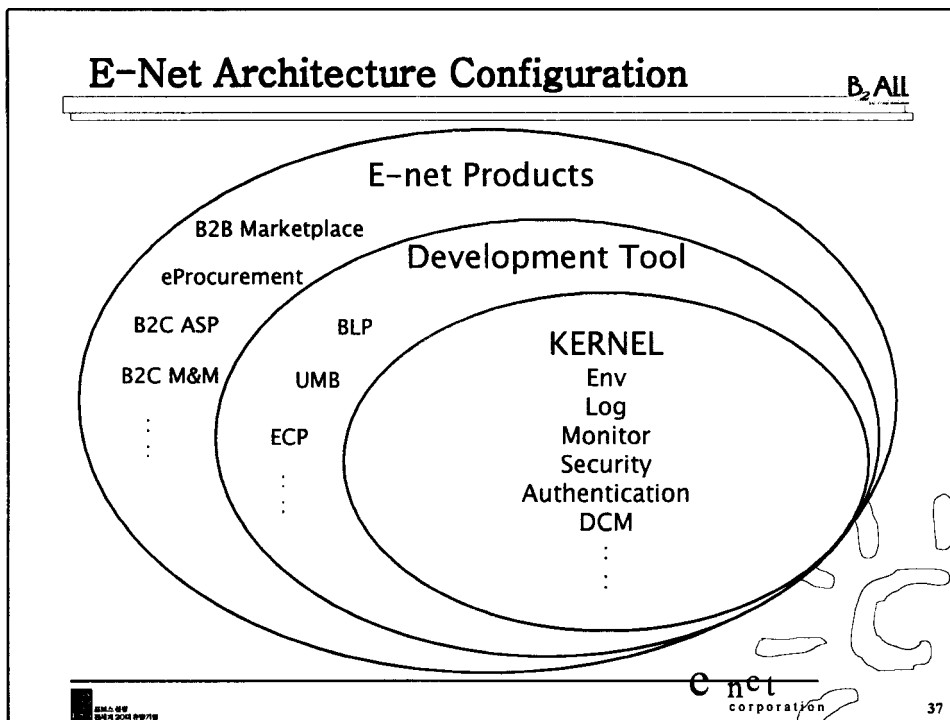
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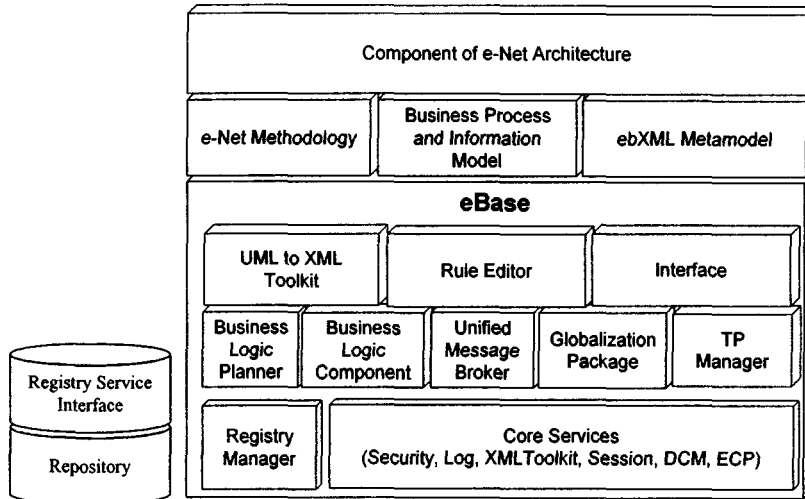
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E-Net Architecture Overview

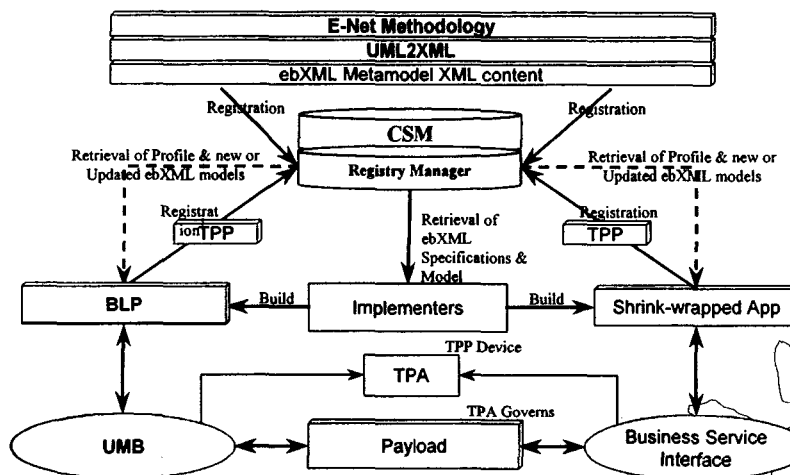
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E-Net component for ebXML

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감사합니다