

웹 서비스 전략



정철용
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Web Services

- Loosely coupled software components delivered over Internet standard technologies
 - SOAP over HTTP for transport
 - UDDI for registry and discovery
 - e-Business XML standards
 - Security and trust frameworks
 - Event notification

A Web Service

- A business function or a business service
- A modular entity
 - that delivers services on demand
 - through a well-defined interface
 - incorporating robust event notification
- can be accessed by another application
 - a user through a client interface,
 - a client,
 - a server or
 - another Web service

Business Goal of Web services

- To enable enterprises to focus on core competencies while outsourcing all other functions
 - Credit authorization
 - Just-in-time productivity and quality-of-service monitoring



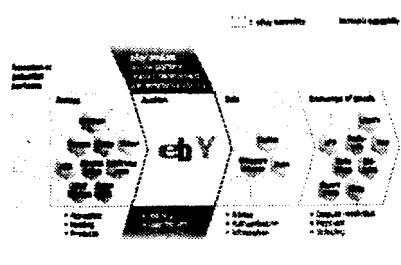
네트워크 기업의 배경: Unbundled Businesses

	Customer Relationship Management	Product Innovation and Customerization	Infrastructure Management
Economic Driver	<ul style="list-style-type: none"> - Economies of scope - High cost of customer acquisition makes it imperative to gain large wallet share 	<ul style="list-style-type: none"> - Speed of development - Early market entry allows for a premium price and large market share 	<ul style="list-style-type: none"> - Economies of scale - High fixed costs make large volumes essential to achieve low unit cost
Determinant of Profitability	<ul style="list-style-type: none"> - Share of wallet 	<ul style="list-style-type: none"> - Number and quality of distribution channels 	<ul style="list-style-type: none"> - Utilization of facilities; low-cost operations
Competition	<ul style="list-style-type: none"> - Battle for scope; rapid consolidation; a few big players dominate 	<ul style="list-style-type: none"> - Battle for talent; low barriers to entry; many small players thrive 	<ul style="list-style-type: none"> - Battle for scale; rapid consolidation; a few big players dominate
Culture	<ul style="list-style-type: none"> - Customer focused; service oriented 	<ul style="list-style-type: none"> - Employee focused; protecting the creative star 	<ul style="list-style-type: none"> - Cost focused; stress standardization, predictability and efficiency
Examples	<ul style="list-style-type: none"> - Cendant, Auto-by-Tel, Yahoo! 	<ul style="list-style-type: none"> - AT&T wire service, UPS, Microsoft, Southwest US Web 	

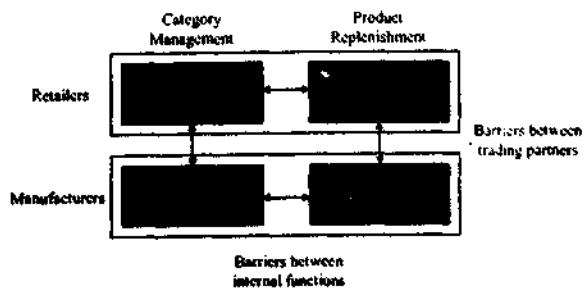
Network 기업

- Network 기술의 출현
 - 기업해부(Unbundling) → Platform 출현을 통한 grid-network 네트워크 참여자의 상호작용 가능
 - 공동으로 각각 정보표준을 통해 네트워크 유지
 - 참여자간 고객, 상품, 스케줄, 재고, 비용 등 데이터에 대한 정보교환
 - 고객도 시장정보 생성자로써 네트워크 구성원
- Network 기업의 구성
 - Network Orchestrator
 - 네트워크 기획, 참여기업의 선정 및 조성, 성과관리, 수익공유 등
 - Specialists
 - 네트워크 구성원의 상호작용으로부터 Orchestrator가 참여하는 자산과 전문성을 대신 접근
 - 네트워크 구성원의 상호 자산공유에 의한 효율성 실현
 - 서비스 하이브리드의 경우, Orchestrator 고객에 대한 접근

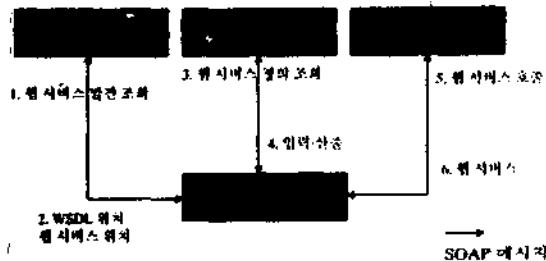
Strategic Symphony



Barriers in Inter-Organizational Systems

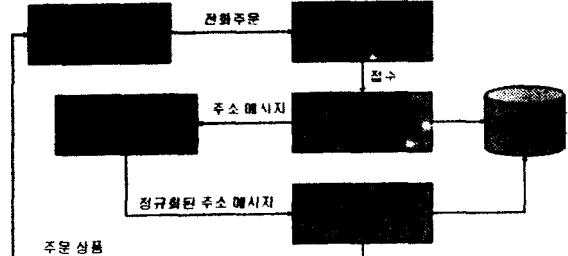


웹 서비스 프레임 워크



주소 정규화 웹 서비스

주문 충족 프로세스



웹 서비스 발견

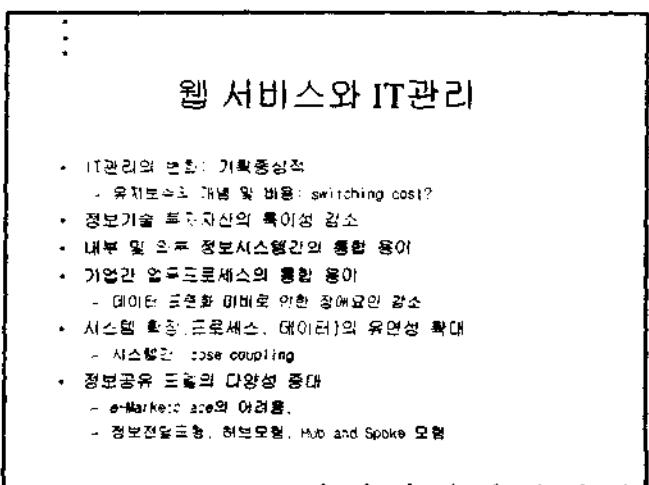
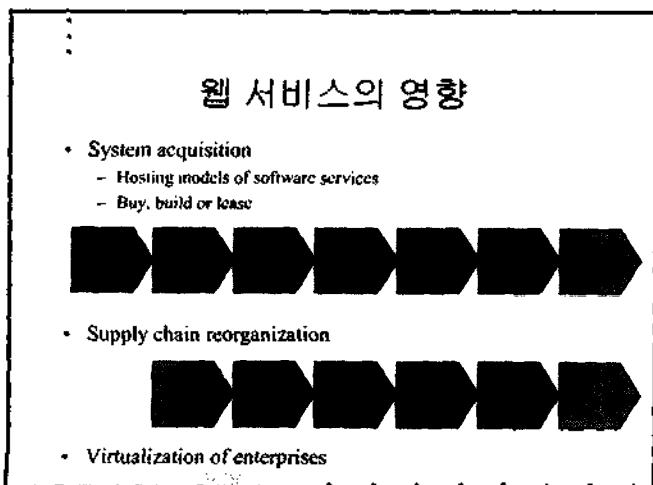
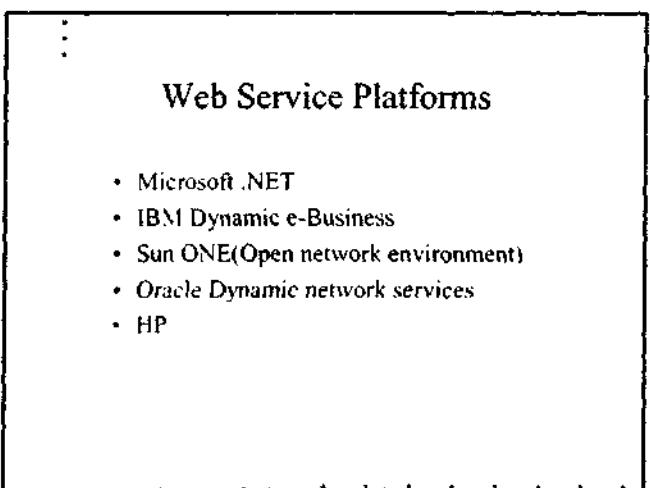
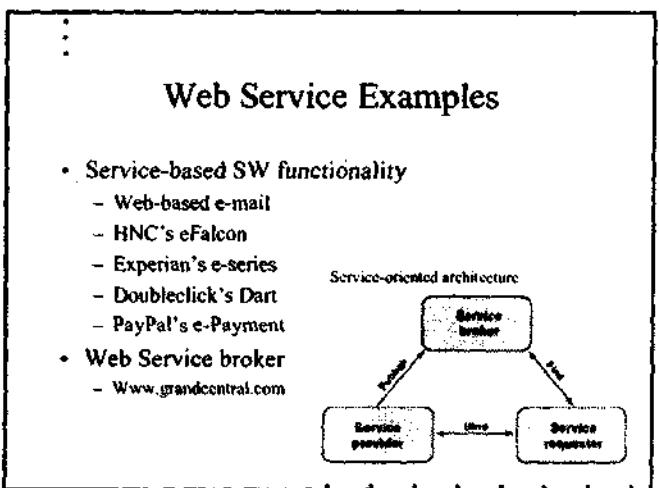
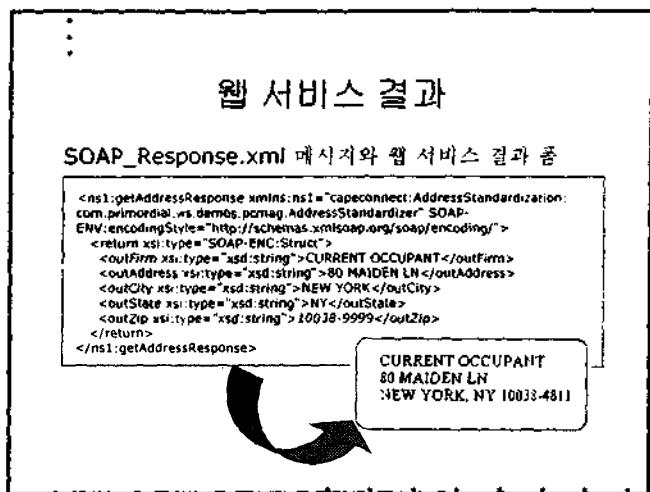
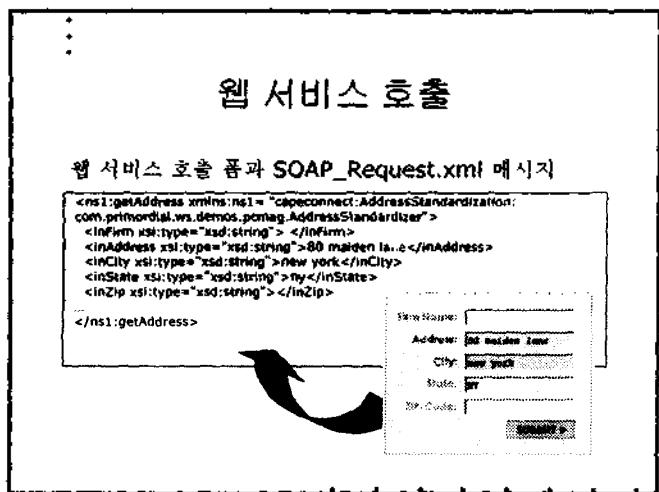
SOAP 메시지: get_serviceDetail 조회에 대한 UDDI response

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
<Body>
<serviceDetail generic="1.0" xmlns="urn:uddi-org:api"
operator="www.ibm.com/services/uddi">
<businessService businessKey="" serviceKey="">
<name>AddressStandardization</name>
<description>Provides Mailing Addresses</description>
<bindingTemplate><bindingTemplate bindingKey="" serviceKey="">
<accessPoint URLType="http">
http://web03.primordia.com:8081/pomagdemo/SOAPService</accessPoint>
<bindingDetails><ModelInstanceInfo ModelKey="" /> ...
<coverageURL>http://web03.primordia.com:8081/pomagdemo/wsdl/
AddressStandardization.wsdl</coverageURL>
</bindingDetails>
</bindingTemplate>
</bindingTemplate>
</serviceDetail>
</Body>
</Envelope>
```

웹 서비스 정의

AddressStandardization.wsdl

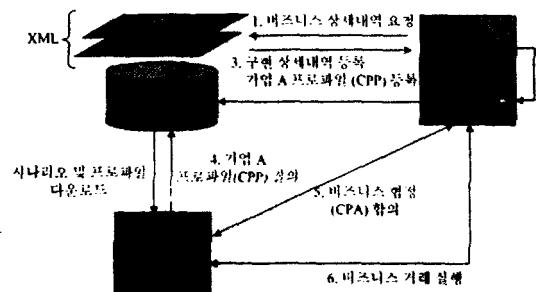
```
<?xml version="1.0" encoding="UTF-8"?>
<definitions name="AddressStandardization" >
<message name="AddressStandardization">
<part name="inForm" type="xsd:string"/>
<part name="inAddress" type="xsd:string"/>
<part name="inCity" type="xsd:string"/>
<part name="inState" type="xsd:string"/>
<part name="inZip" type="xsd:string"/>
<part name="inLastName" type="xsd:string"/>
<part name="inFirstName" type="xsd:string"/>
</message>
<message name="AddressStandardizationResponse">
<part type="xsd:string"/>
<part type="xsd:string"/>
<part type="xsd:string"/>
<part type="xsd:string"/>
</message>
<portType name="AddressStandardization">
<operation name="getAddress">
<input message="tns:AddressStandardization" />
<output message="tns:AddressStandardizationResponse" />
</operation>
</portType>
<service name="AddressStandardization">
<documentation>My WSDL</documentation>
<port binding="tns:AddressStandardizationBinding" name="AddressStandardizationPort">
<soap:address location="http://web03.primordia.com:8081/pomagdemo/SOAPService">
</port>
</service>
</definitions>
```



웹 서비스 장애요인

- Lack of proven
 - Business models
 - Revenue generation models
 - Trust
- 기술적 장애
 - Security problem
 - Service discovery and standard
 - Service switching

ebXML e-비즈니스 아키텍처



웹 서비스와 ebXML의 비교

웹 서비스와 ebXML

