

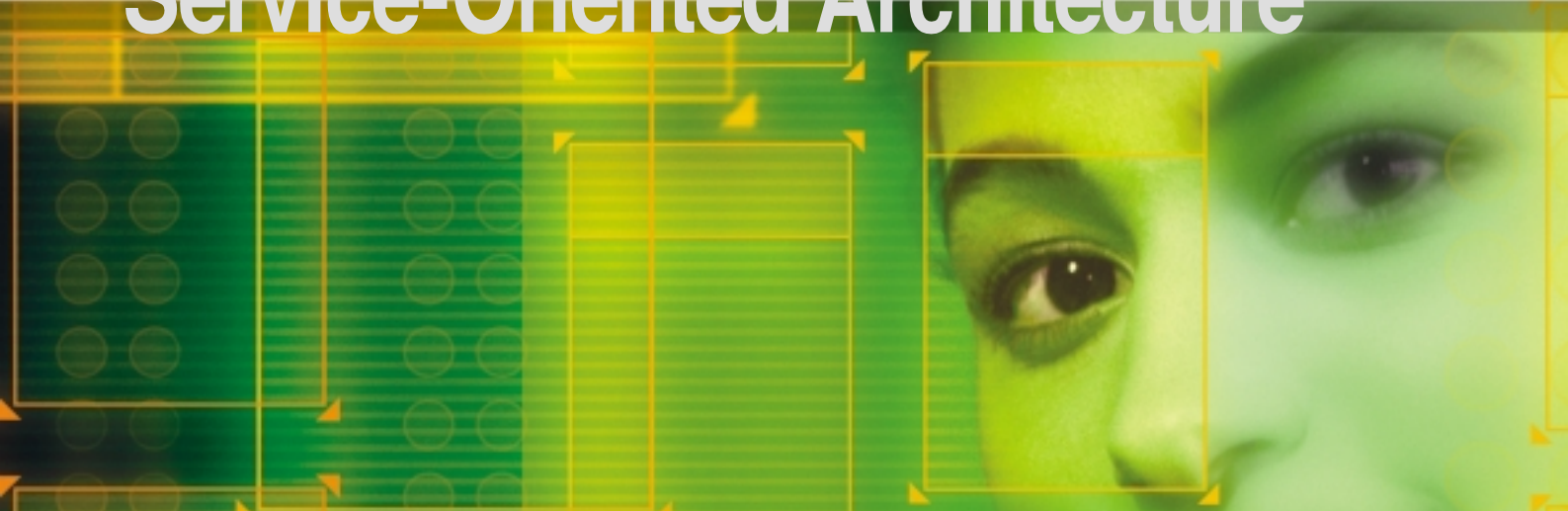


Service Oriented Architecture

C O N T E N T S

4	SOA		
4	SOA		?
8	SOA e-		
9	SOA		
9			
9	IT		
10	SOA		
11	SOA		IBM
15	SOA -		
16	SOA	IBM	
18	SOA		
18			
19			
19			
19	/		
19			
20	SOA		
22	SOA		
23			
23			
23			
23			
24			
24			
24		(Composability)	
26	SOA	ESB가	
29		SOA	
31			

Service-Oriented Architecture



(Service Orientation) 가
SOA(Service - Oriented Architecture)

SOA가 가

IT ,가 SOA 가 가

SOA가 IBM & Jason
Weisser

“ 21 가 , IT “가
”

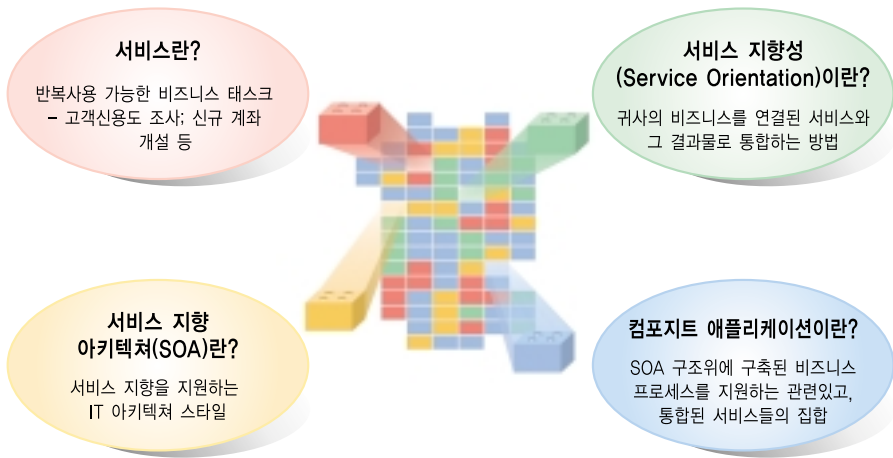
가 가 가
, (IT SOA)
“ ”

SOA 가 , Sam Palmisano가 IBM
IBM .”

1

SOA

SOA 가?



1. SOA 가?

IT

. IT SOA
. SOA

가

“SOA

IT

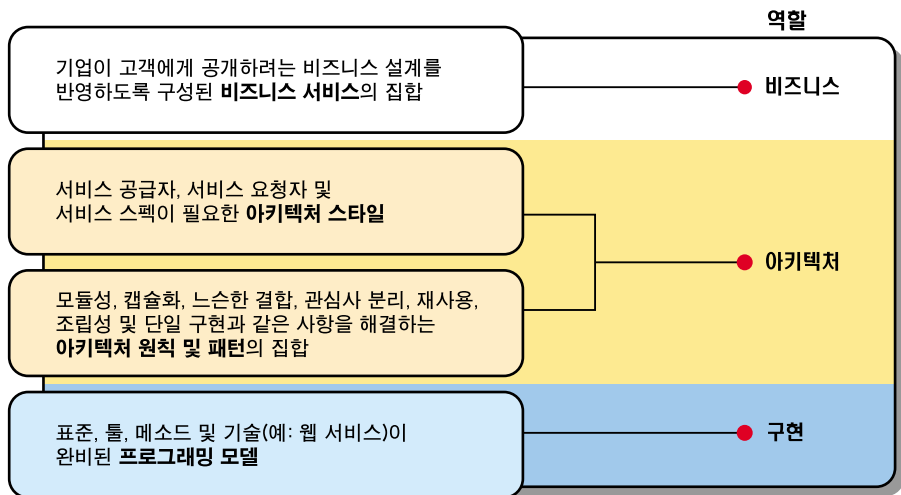
, 가

()

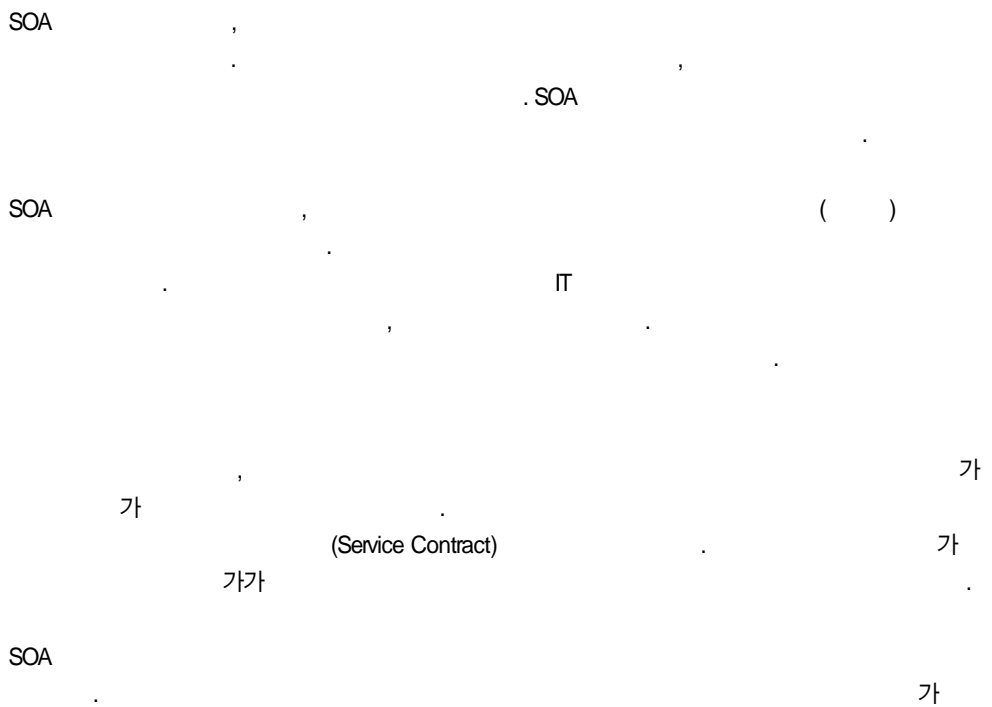
.”

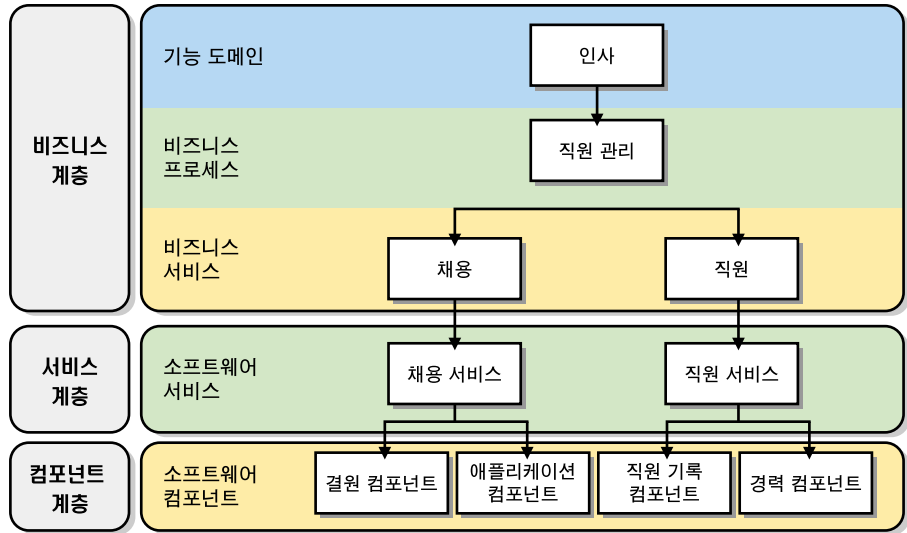
- Service Oriented Architecture Compass, Bieberstein, et al., ISBN 0 - 13 - 187002 - 5

SOA



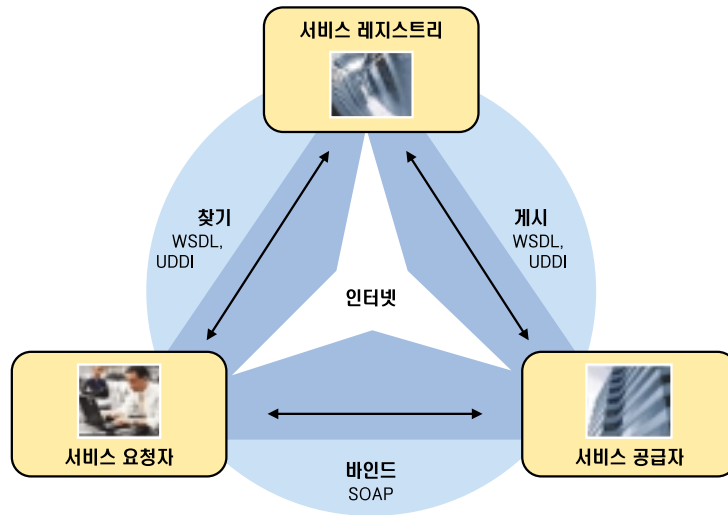
2. SOA





3. SOA

ERP/CRM) , SOA (: , SOA SOA SOA IBM SOA SOA가 , , ,



4. SOA

SOA가 , 가 , 가 SOA
 SOA 가 , 가
 가 가
 SOA 가 ESB(Enterprise Service Bus) 가
 가 (expose) 가
 가 (coarse - grained)
 3 50 IBM , IBM
 , / . IBM
 . CBM(Component Business Model)
 IT SOMA(Service -
 Oriented Modeling and Architecture)

IBM SOA 가 IT (wiring), IT
ESB가
SOA
IT 가
SOA
가 SOA 가
SOA e-
e- 2
e- IT
가 IT
e- SOA
(coarse - grained)
가
e- point - to - point ESB
SOA

2

SOA

SOA

(granularity) 가

가

IT

IT

가

IT

David Smith
”

“

가

가

SOA
Gartner
, IBM

3

SOA

SOA

IT

IT

/

IT

가

가

(fine - grained)

가

가

IT

(Return on Investment)

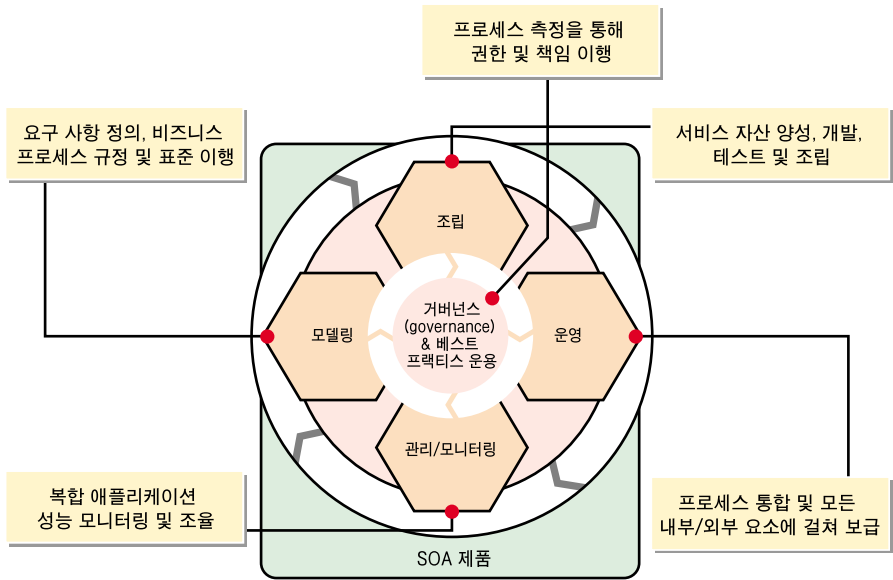
SOA

4

SOA

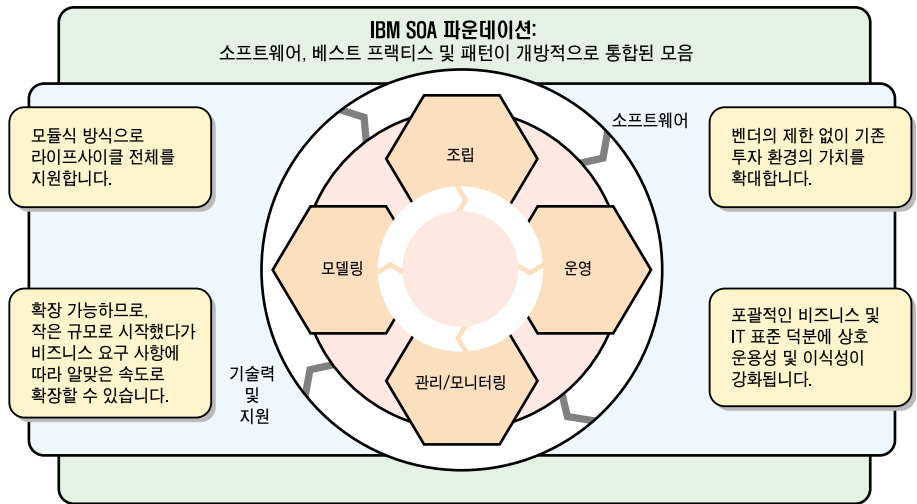
IBM

가 IBM 가 SOA IBM SOA 가 WebSphere Process Server SOA 가 WebSphere Process Server SOA 가

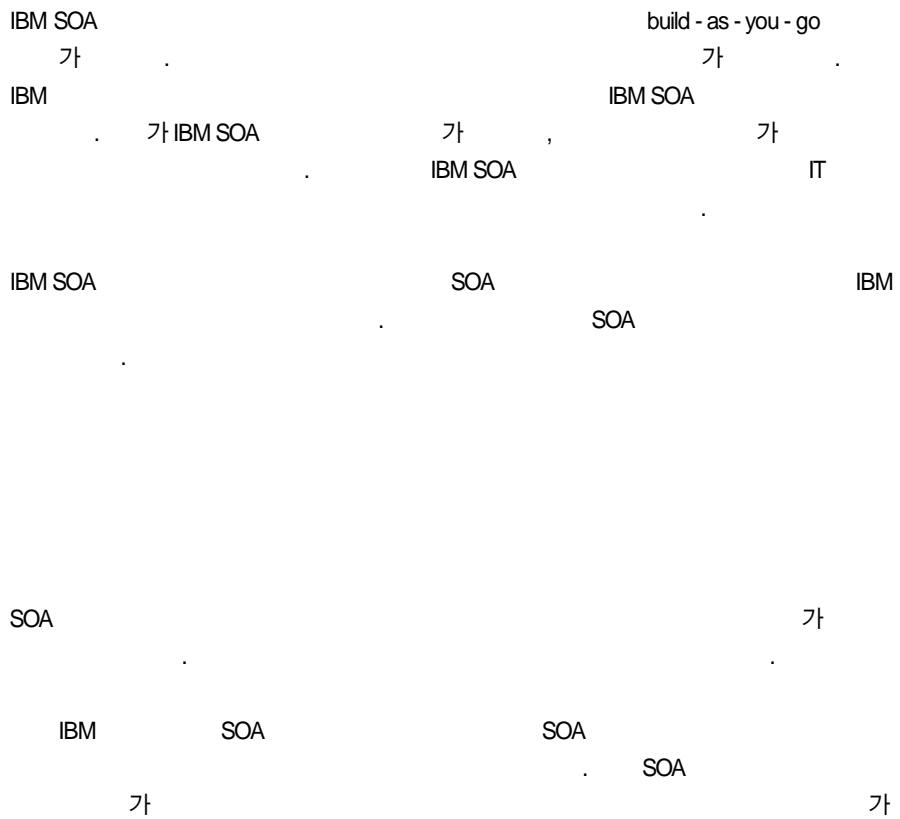


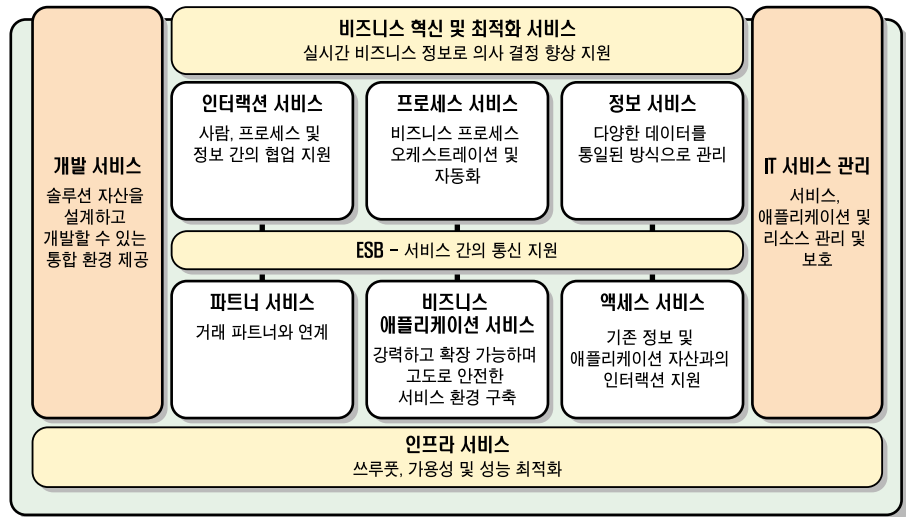
5. SOA

IBM SOA SOA

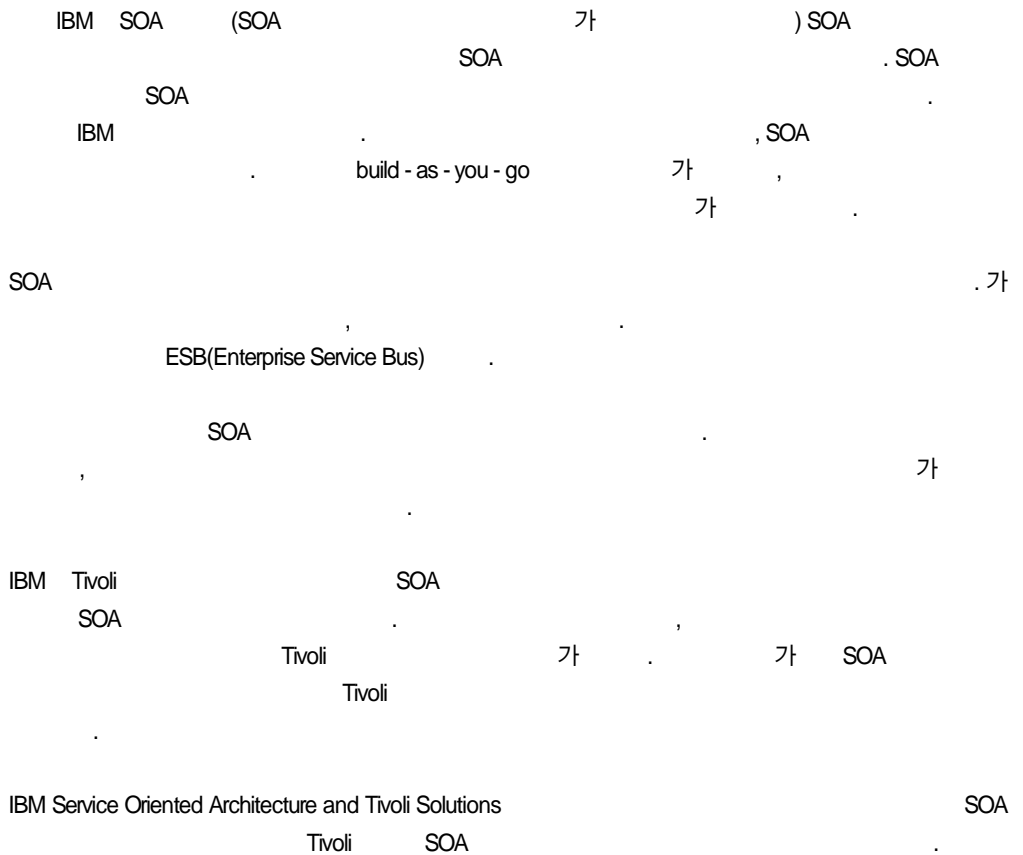


6. SOA





7. SOA



Tivoli IBM Tivoli Composite Application Manager for SOA IT
 가 가

IBM Rational SOA
 Architect(RSA) IBM Rational Application Developer(RAD) Java
 IBM Rational Software

가 IBM WebSphere Business Modeler
 WebSphere Business Monitor SOA WS - BPEL(Web Services Business Process Execution Language)

IBM Federated Records Management IBM DB2 SOA
 Gartner가 " SOA 가 SOA
 SOA가

Fortune 500 50 가 3 ERP
 SOA 가

DB2 가 IBM 3
 Information On Demand 30
 Information On Demand IBM (Information Services) Information
 Accelerator SOA

IBM SOA services
 SOA 가 , SOA

IBM Global Services 가

SOA -

Bowstreet Inc.

IBM

IBM IBM WebSphere Portal

Bowstreet Inc.

Bowstreet

Micromuse

IBM

, IBM

SOA

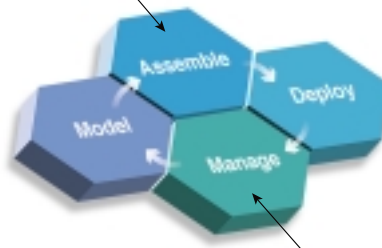
Micromuse

IT

. Micromuse IBM



bowstreet



8. IBM

IBM SOA 가

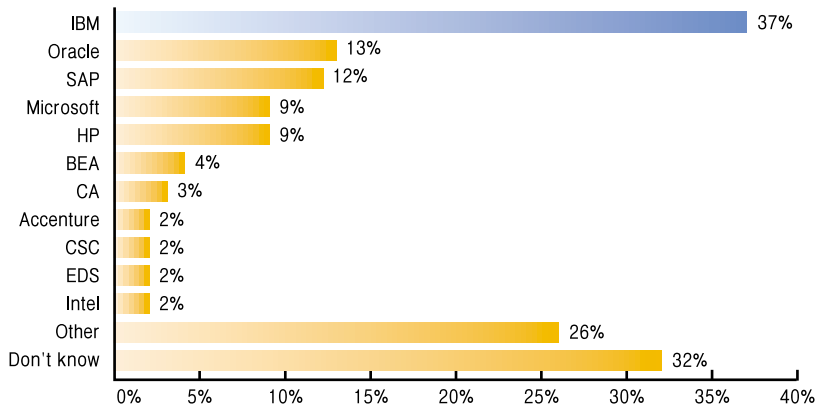
SOA

5

SOA IBM

IDC IBM Global Services가 SOA 가 ,
 , IBM
 IDC IBM Global Services가 SOA
 SOA
 , SOMA(Service - Oriented Modeling and
 Architecture) SOA
 “ SOA ” IBM Global Services SOA & Michael Liebow
 “ IBM SOA ”
 “ 2003 가 , 11 SOA IBM Global Services
 (verticalization)
 ” IDC SOA Sophie Mayo 가 “
 SOA IBM “
 IBM SOA 가 SOA IBM SOA
 IBM SOA Centers of Excellence IBM
 Global Services IBM Software
 IBM WebSphere

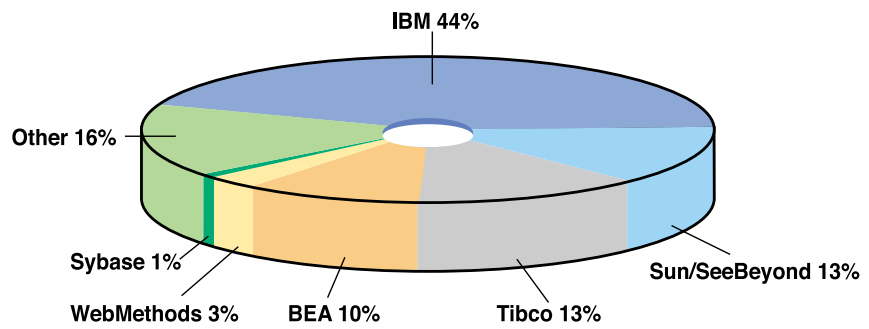
SOA 대표 주자로 가장 자주 언급되는 벤더



기준: SOA를 사용 중이거나 사용할 계획인 기업들 99곳
 Source : AMR Research, 2005

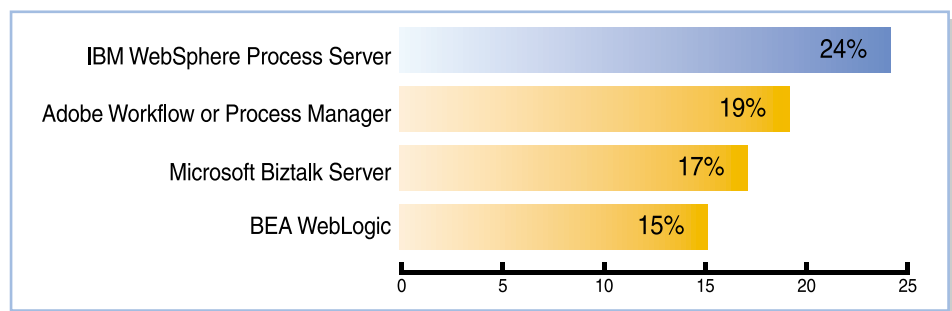
2005 , AMR Research가 SOA 가 IBM 3:1

2005 Wintergreen Research IBM SOA 44%
 Wintergreen Research " IBM SOA



Source: WinterGreen Resaserch.Inc

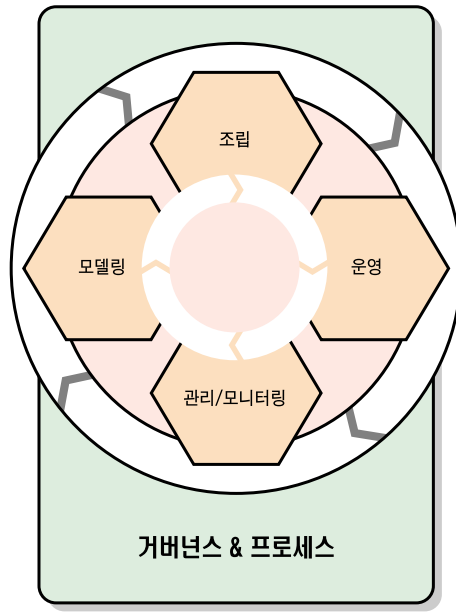
SOA BPM InforWorld IDC IBM
 SOA BPM WebSphere Process Server가



Inforworld" Schetching out BPM "2006.02

6

SOA



10. SOA

IBM

SOA

가

, IBM

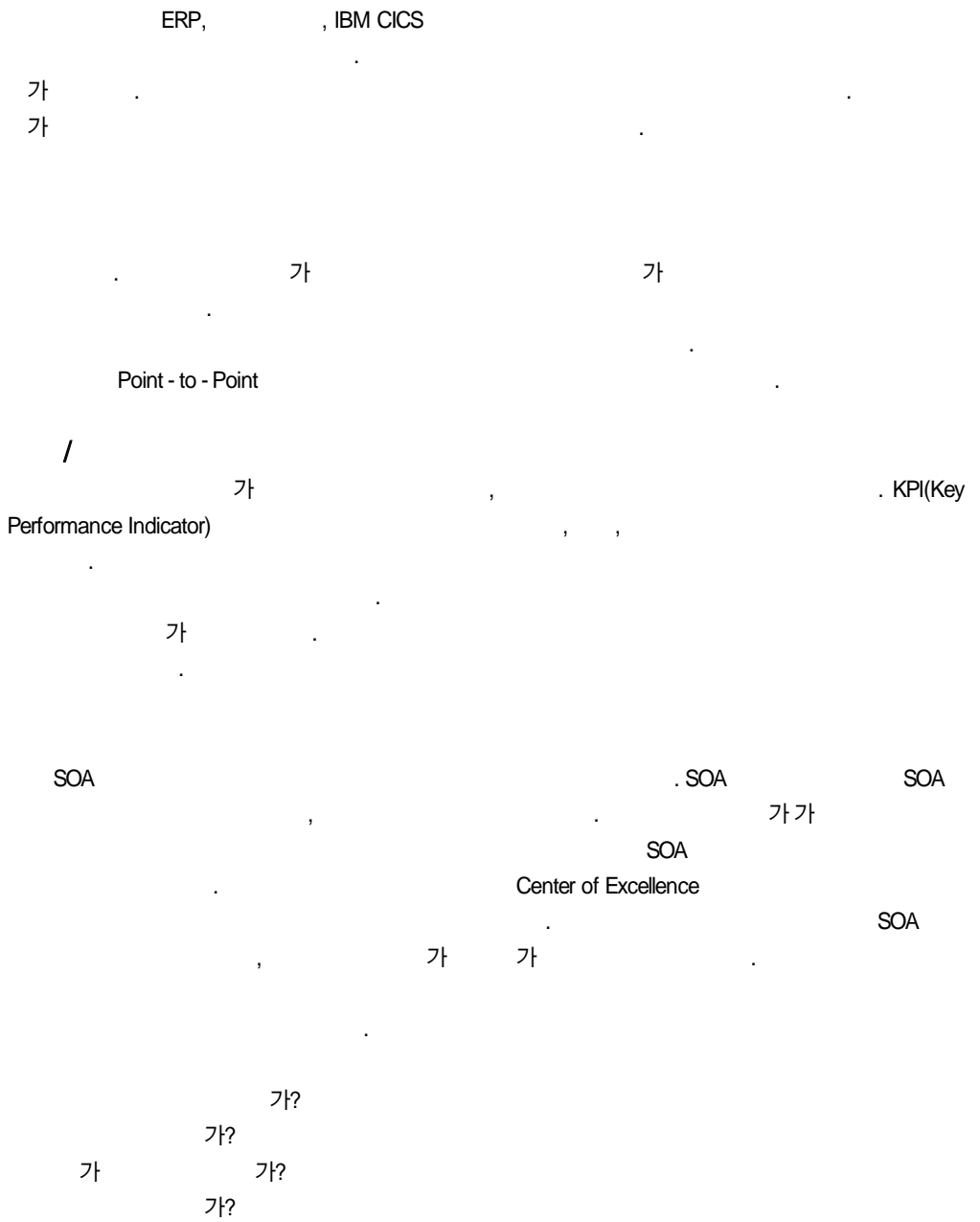
IT

가

SOA

가

IT

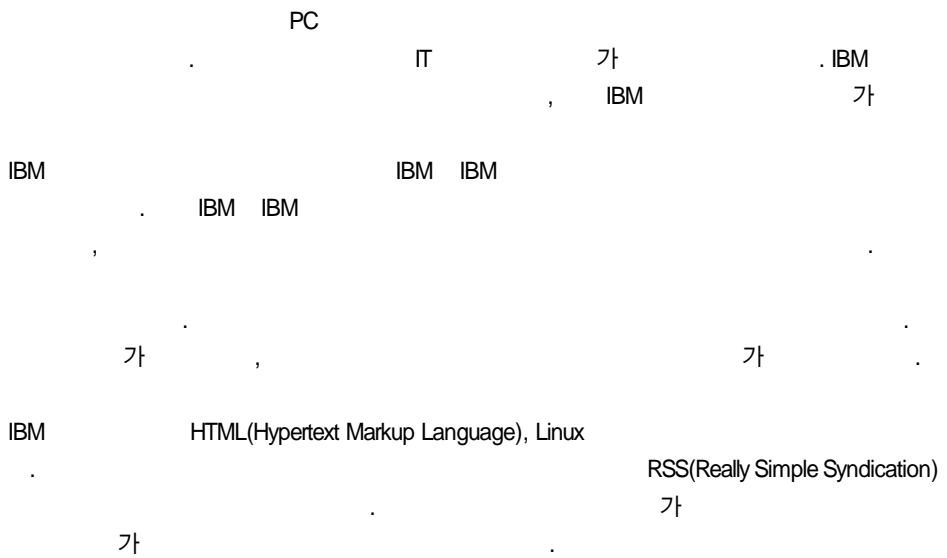


7

SOA



11.



SOA, XML, Oasis, World Wide Web Consortium(W3C), Internet Engineering Task Force(IETF), 가, Storage Network Industry Association(SNIA)

WSDM(Web Services Distributed Management) 가, MUWS(Management Using Web Services), MOWS(Management of Web Services)

WSDM, DMTF(CIM), OMG(UML)

WS - BPEL(Web Services Business Process Execution Language)

XML, Oasis, WS - BPEL

가

SOA 가

가 가

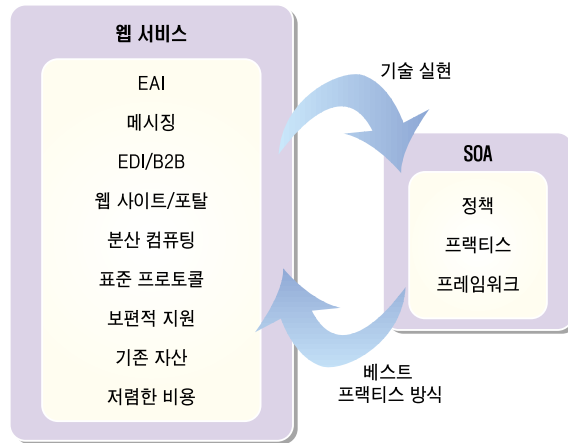
가 가가

.IT 가

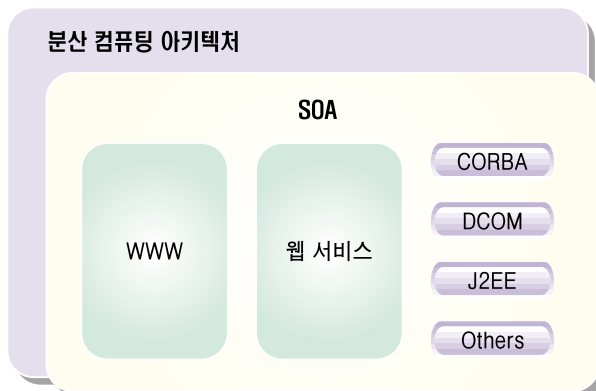
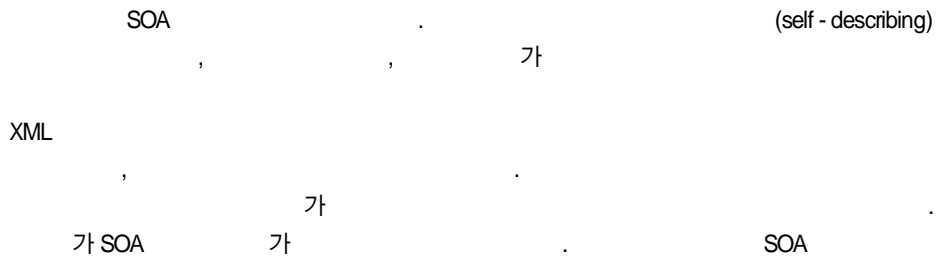
, IBM

8

SOA



12. SOA



13. SOA

()

(SOAP, WSDL, XML XML)

가

(Composability)

가 (Composition) (Mix and Match)

가

QoS(Quality of Service)

SOA SOA

SOA SOA 가

SOA EAI(Enterprise Application Integration) (: WebSphere MQ, WebSphere Business Integration Message Broker)

Point - to - Point

SOA SOA

IT 가

SOA

가

WS - BPEL(BPEL4WS), SOAP, WSDL (: WS - ResourceFramework) 가

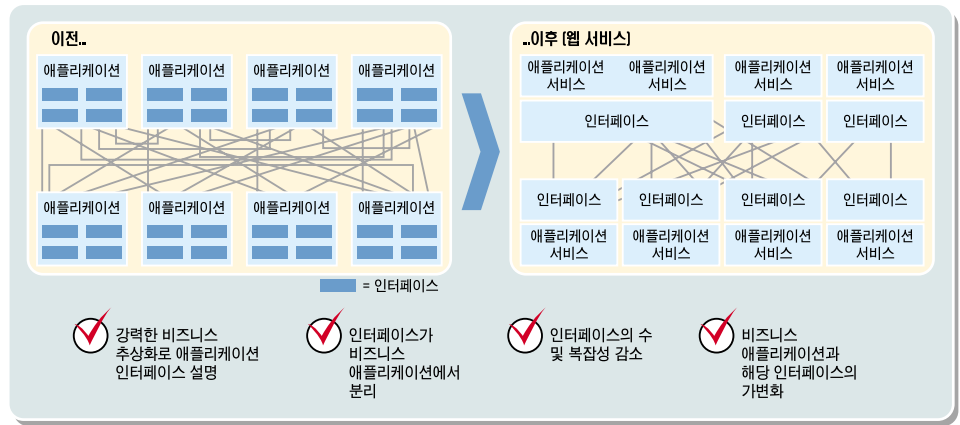
SOA가
. SOA
WSDL SOA 가 . WSDL
(:) . BPEL4WS가
SOA
SOA
가 . SOA
SOA SOA
SOA . SOA ESB
가 .

9

SOA ESB가

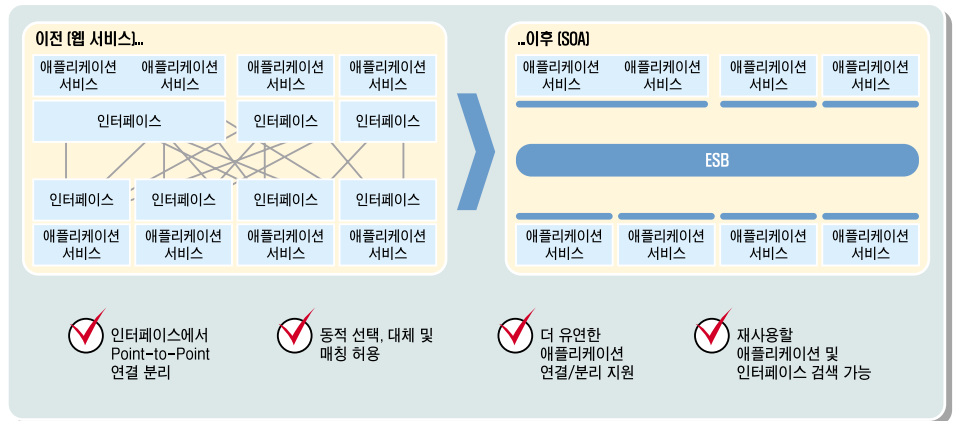
SOA

. SOA



14.

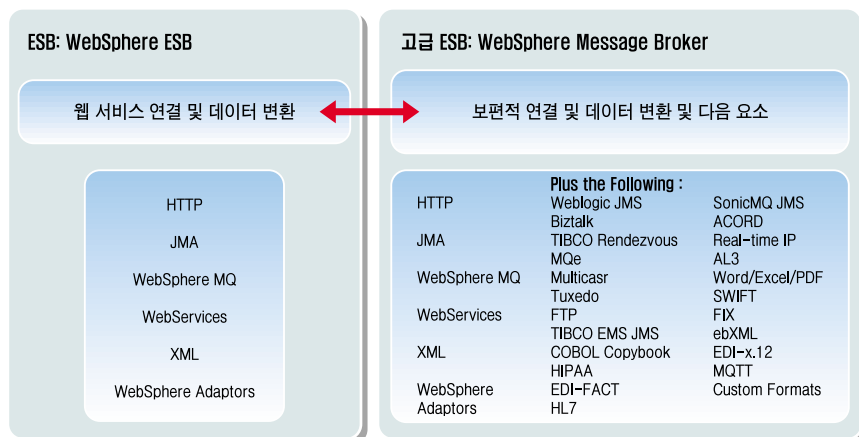
. ESB



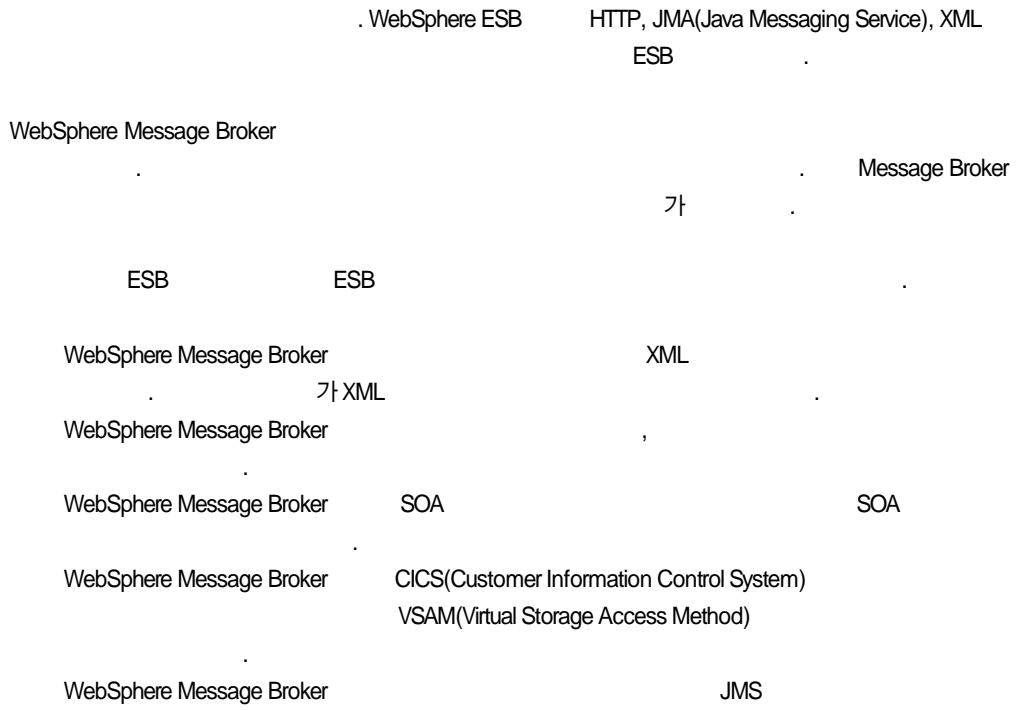
15.

SOA

ESB SOA
 ESB SOA
 . ESB 4가
 (ROUTE)
 (CONVERT)
 (TRANSFORM)
 (HANDLE)
 가
 ESB IT
 가
 ?
 SOA ESB
 가
 ESB,
 ESB가
 IBM 가 . WebSphere Enterprise
 Service Bus(ESB) V6 , WebSphere Message
 Broker V6 Message Broker ESB 가



16. WebSphere



10

SOA

SOA

IBM SOA 가



17. SOA

SOA 가

가 가

SOA 가

SOA

, 가

IBM

SOA

SOA

가

“ 가 ”

SOA

IBM SOA Jumpstart

IBM SOA/

SOA

IBM SOA & Web Services Centers of Excellence

. SOA

IT

IT

IBM SOA

(Strategy and Planning for SOA)

, SOA

가 SOA

IBM SOA

IBM

가

, SOA

SOA

SOA

, SOA

, SOA

	 사일로	 통합	 컴포넌트화	 서비스	 복합 서비스	 가상화된 서비스	 동적 재구성 가능한 서비스
IT에 대한 비즈니스 관점	기능 지향적	기능 지향적	기능 지향적	서비스 지향적	서비스 지향적	서비스 지향적	서비스 지향적
방식	구조적 분석 & 설계	객체 지향 모델링	컴포넌트 기반 개발	서비스 지향적 모델링	서비스 지향적 모델링	서비스 지향적 모델링	서비스 지향적 모델링
애플리케이션	모듈	객체	컴포넌트	서비스	서비스를 통한 프로세스 통합	서비스를 통한 프로세스 통합	동적 애플리케이션 조립
아키텍처	독립적 아키텍처	계층식 아키텍처	컴포넌트 아키텍처	새로운 SOA	SOA	그리드 지원 SOA	동적 재구성 가능한 아키텍처
인프라	플랫폼별	플랫폼별	플랫폼별	플랫폼별	플랫폼별	기술 중립적	동적 감지 & 응답
	1단계	2단계	3단계	4단계	5단계	6단계	7단계

18. SIMM

IBM SIMM(Service Integration Maturity Model) SOA 가

IBM SOA (Business Enablement Services for SOA) - SOA

IT

IBM SOA (Design Services for SOA) - SOA

가

IBM SOA (Implementation Services for SOA) - SOA

SOA IBM

SOA & IBM SOA & Web services Centers of Excellence

가 IBM 가

SOA Center of Excellence

가 . SOA 가 . SOA IT . SOA IT 가 SOA 가 ESB가 . SOA , SOA SOA IBM IBM SOA SOA SOA IBM SOA IBM SOA

2006 2



Copyright IBM Corporation 2006

(135 - 270)

467 - 12

TEL: (02)3781 - 7114
www.ibm.com/kr

2006 3

Printed in Korea
All Rights Reserved