



IBM SOA PoT

Service Oriented Architecture

A level-set for SOA



Market forces are changing the world in which we live

Thomas Friedman, *The World Is Flat*

“The playing field is being flattened ... Technology and geo-economics are fundamentally reshaping our lives—much, much more quickly than many people realize.”

“...a platform where intellectual work, intellectual capital, could be delivered from anywhere. It could be disaggregated, delivered, distributed, produced and put back together again—and this gave a whole new degree of freedom to the way we do work, especially work of an intellectual nature.”

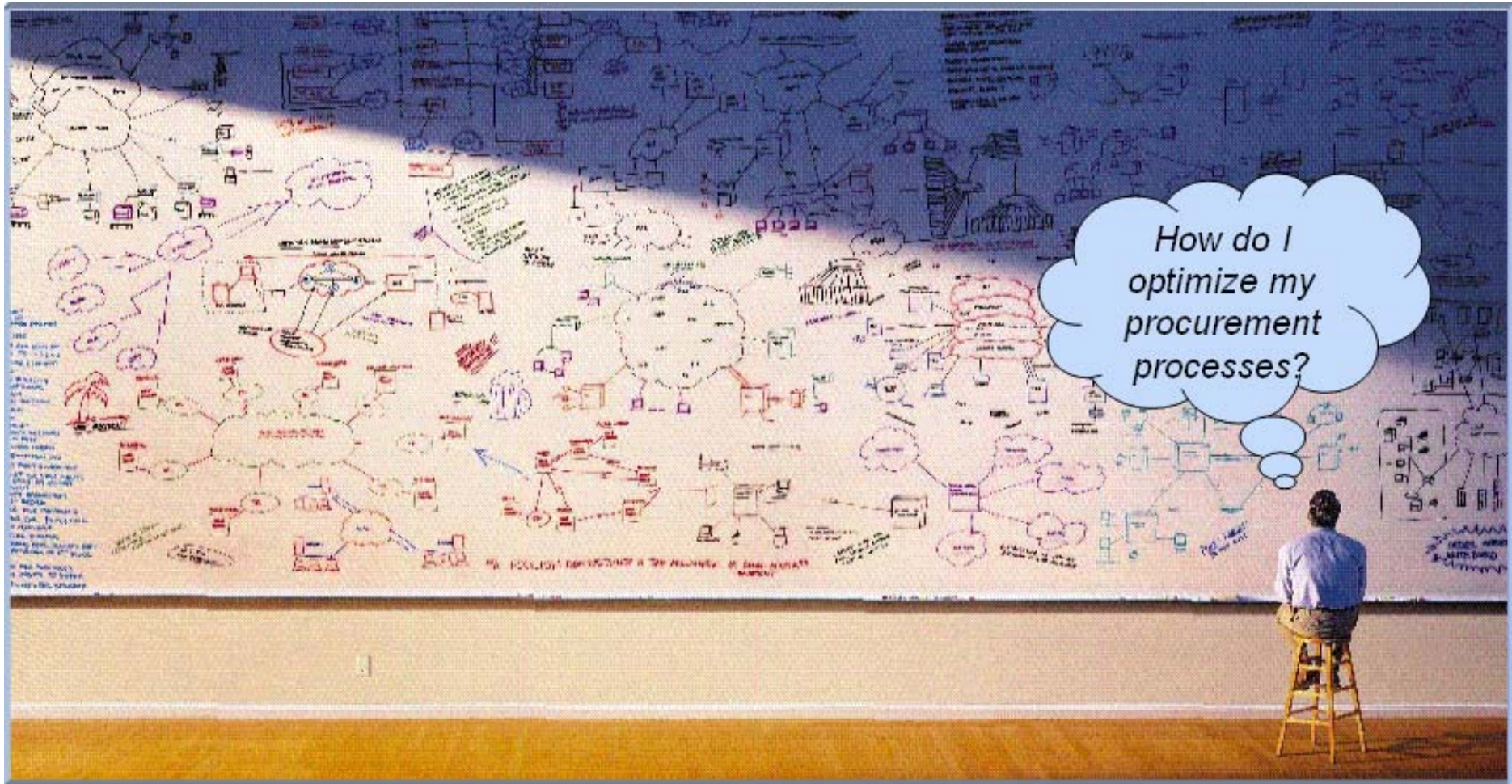
The Cluetrain Manifesto: The end of business as usual

“Few have attempted it (collaboration) beyond their own boundaries. Companies that remain ‘secure’ within those boundaries will be cut off from the global marketplace...”

Reinventing ways of doing business

Industry	Traditional business model	On Demand Business
Insurance	Auto insurance rates were based on fixed premiums	Auto insurance rates based on driving and usage patterns
Airlines	Passengers waited in line at airport to get boarding pass	Passengers can print their own boarding passes at home
Automotive	Lack of collaboration between OEMs, suppliers and dealers slowed processing of warranty claims	Collaboration across entire supply chain accelerates root cause analysis, resolving warranty claims 5 days faster.
Financial Services	Launch of new credit product taking up to 7 months	Horizontal integration of processes taking product launch down to 8 weeks
Government	It took customs agencies hours to determine the location, origin and contents of containers arriving at their ports	Customs agencies know exact location, origin and contents of containers in a matter of seconds
Retail	Stores offered same promotions across all stores, based on a predetermined schedule	Instant, in-store promotions are based on real-time view of customer buying behaviours and inventory levels

But we are stuck with THIS !

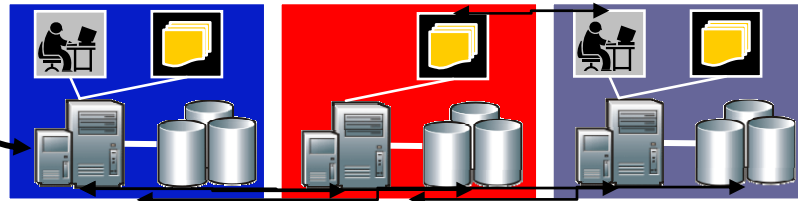


Today

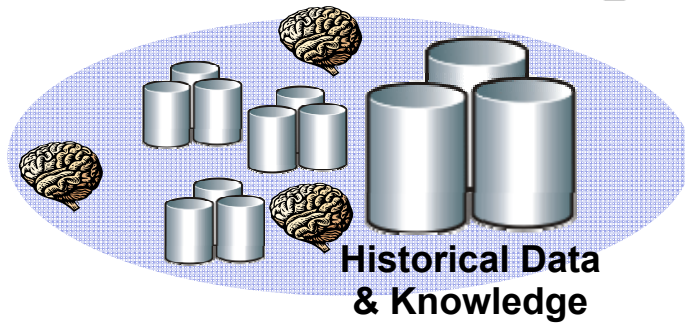
Event



Line of Business Systems and Data



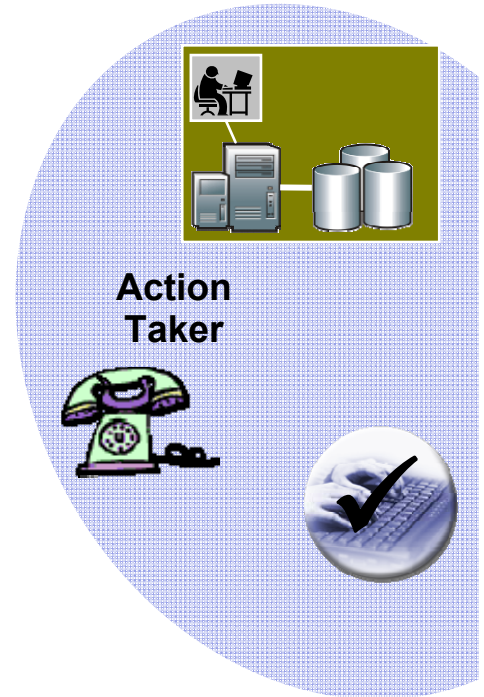
Process is Implemented Like This



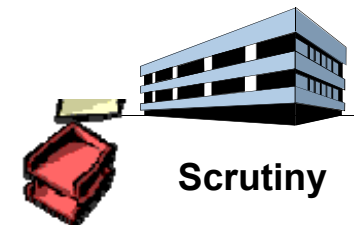
Historical Data & Knowledge



Decision Taker



Action Taker



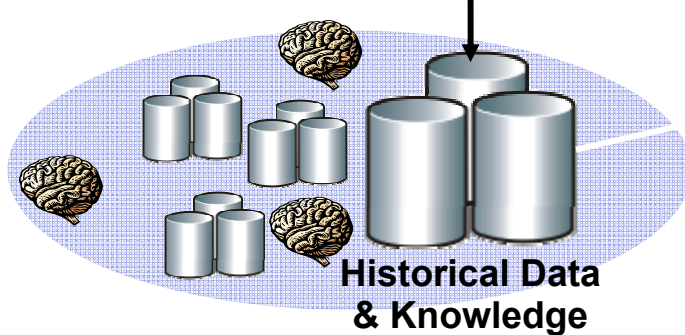
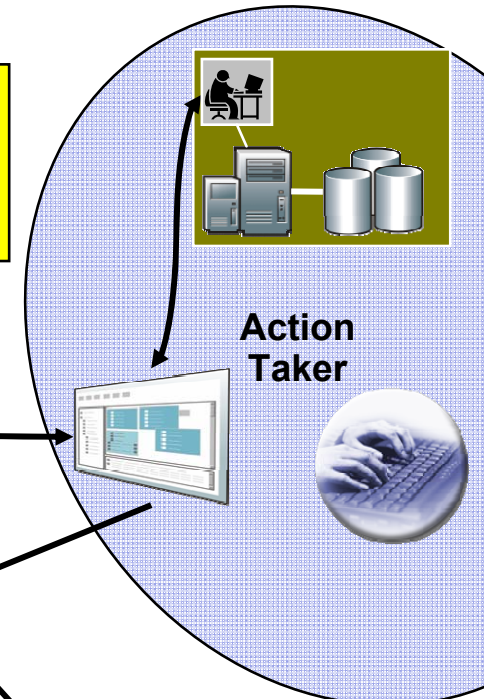
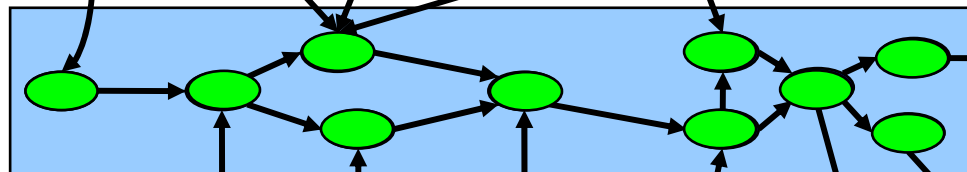
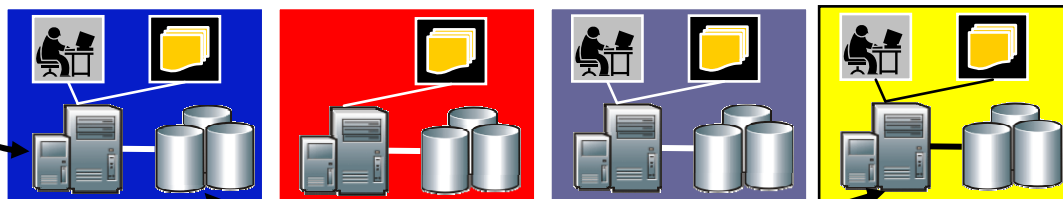
Scrutiny

With SOA

Event



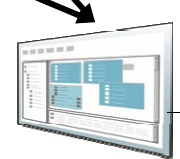
Line of Business Systems and Data



Audit Log



Decision Taker



Scrutiny

SOA – Business Benefits

Agility

**Decrease
Costs**

**New
Opportunities**

**Reduce
Risk**

SOA – IT Benefits

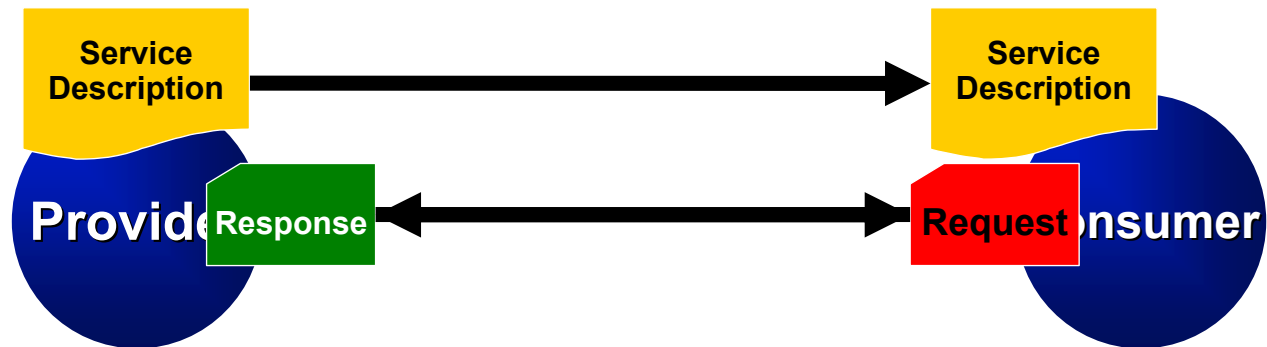
**Implicit
Interoperability**

**Embrace
Heterogeneity**

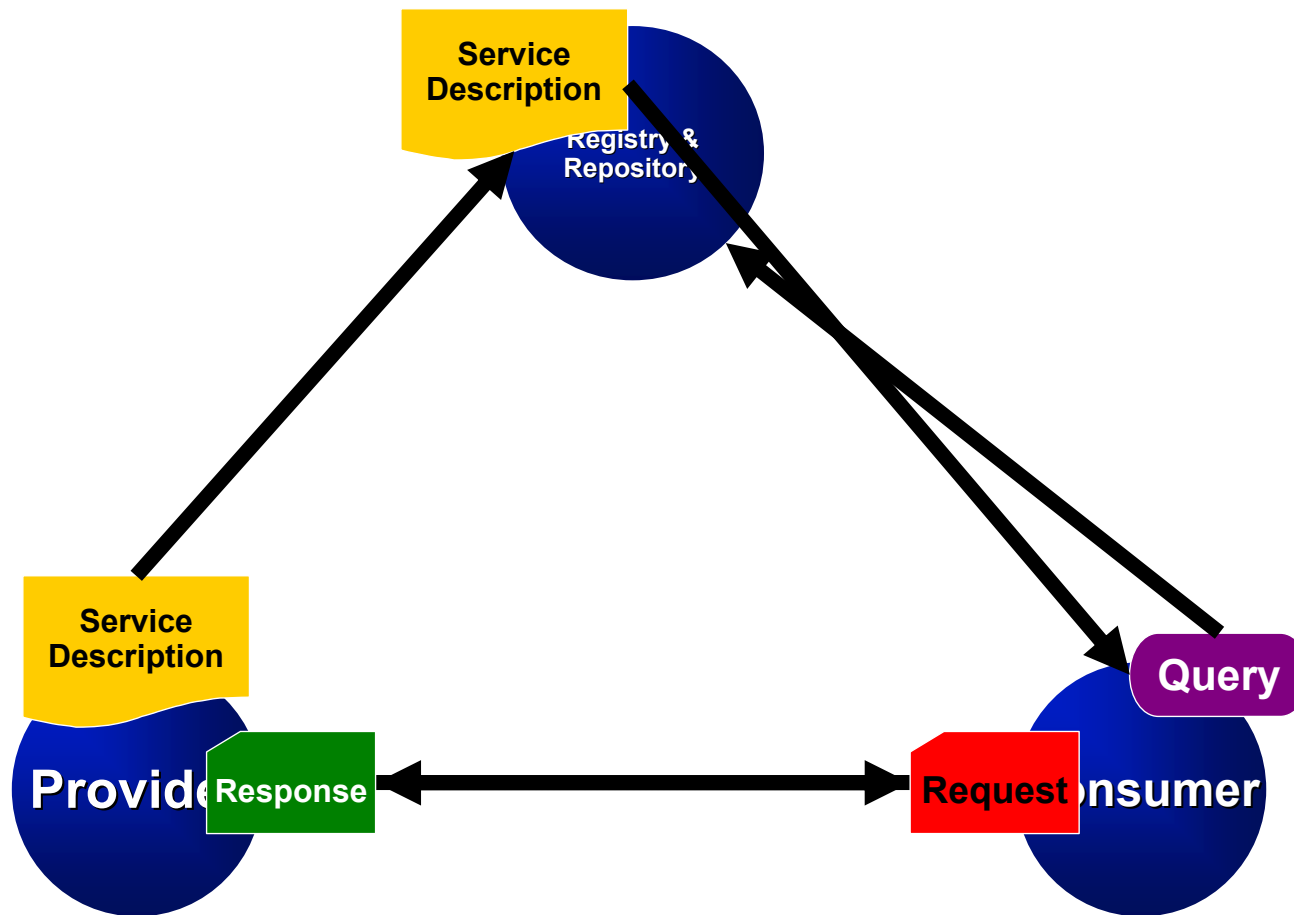
**Closer
Alignment
IT/Business**

**Reduce IT
Burden**

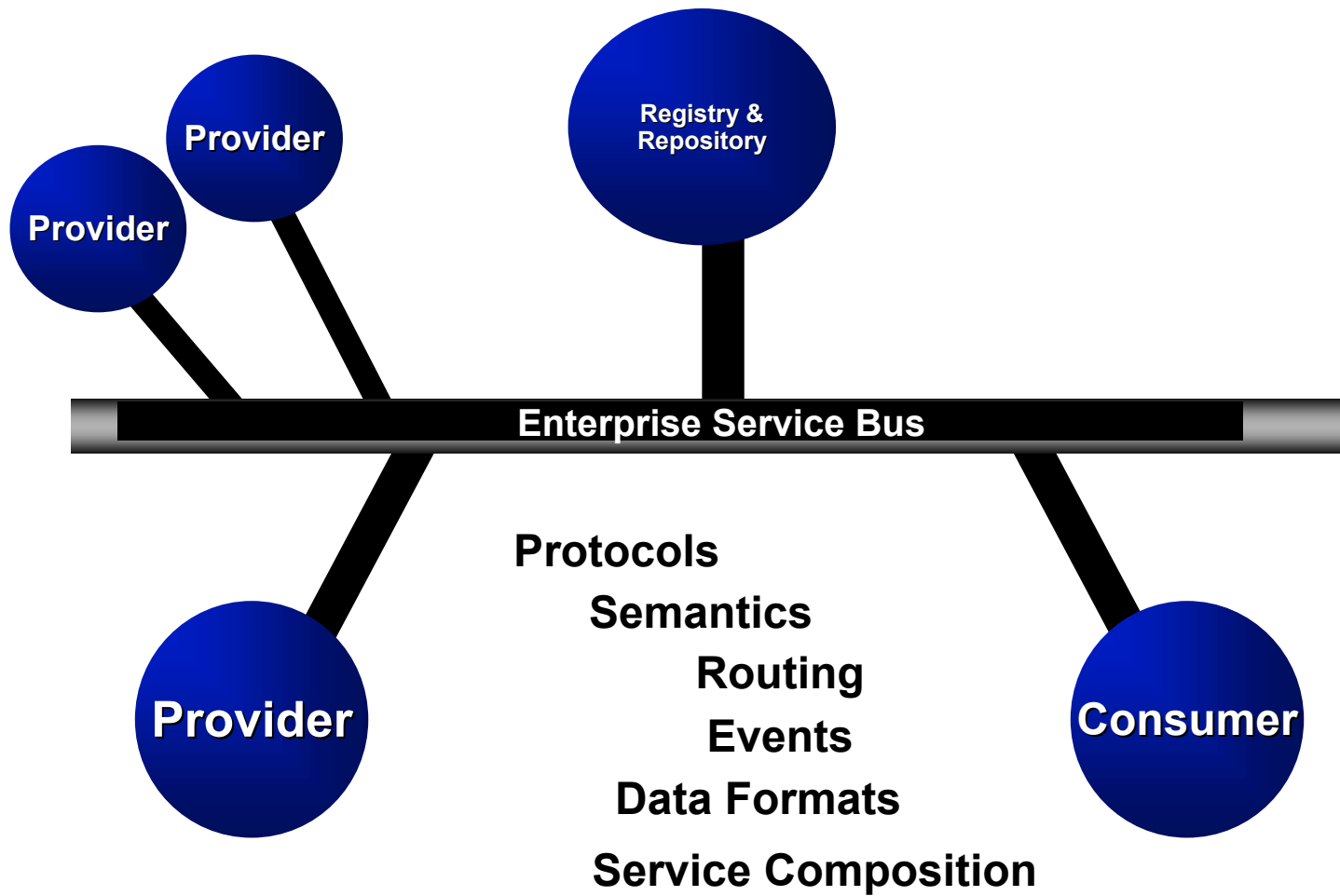
Service Concept



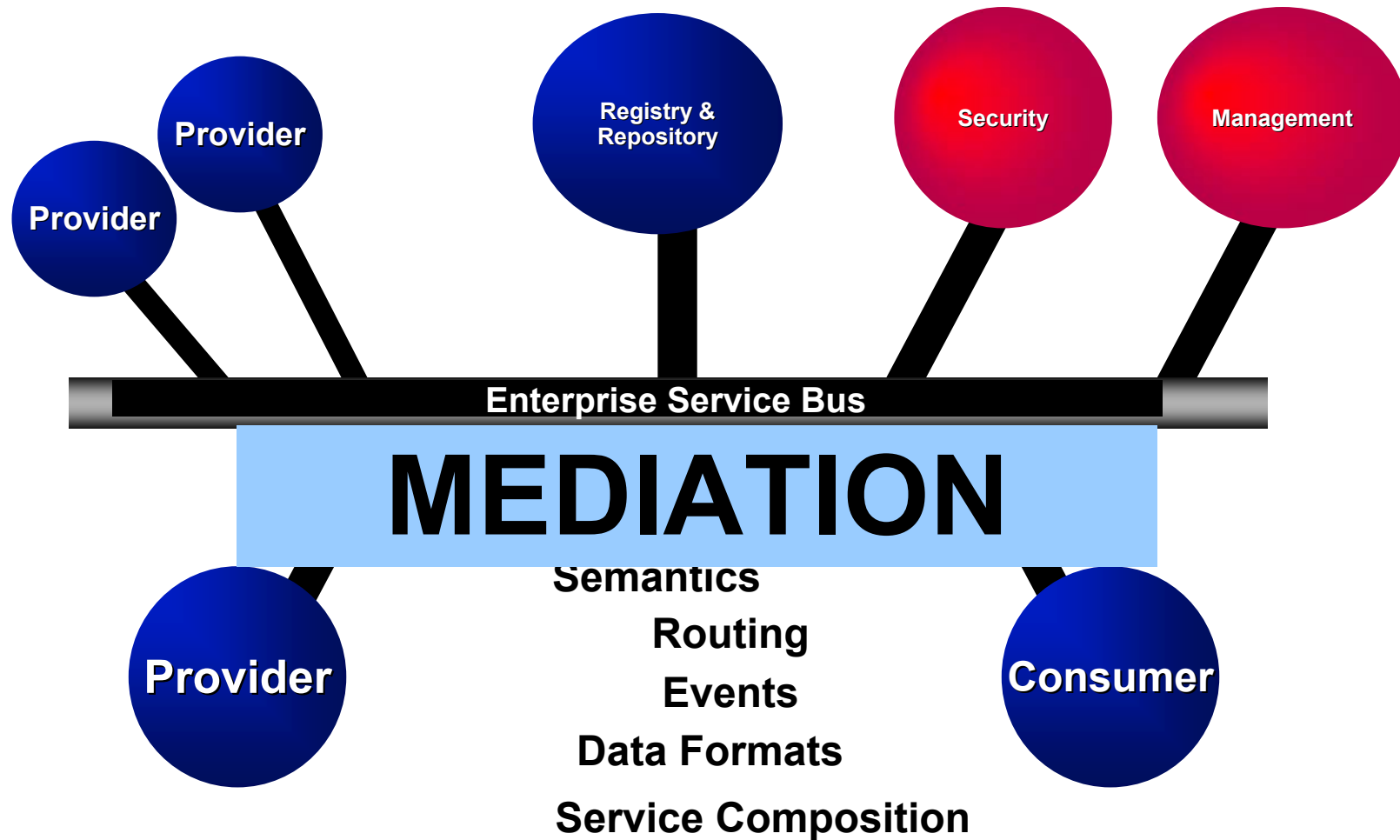
Service Concept with a Registry & Repository



Plumbing !



Plumbing ...



Partner
Partner
Partner

J2EE

SAP

CICS

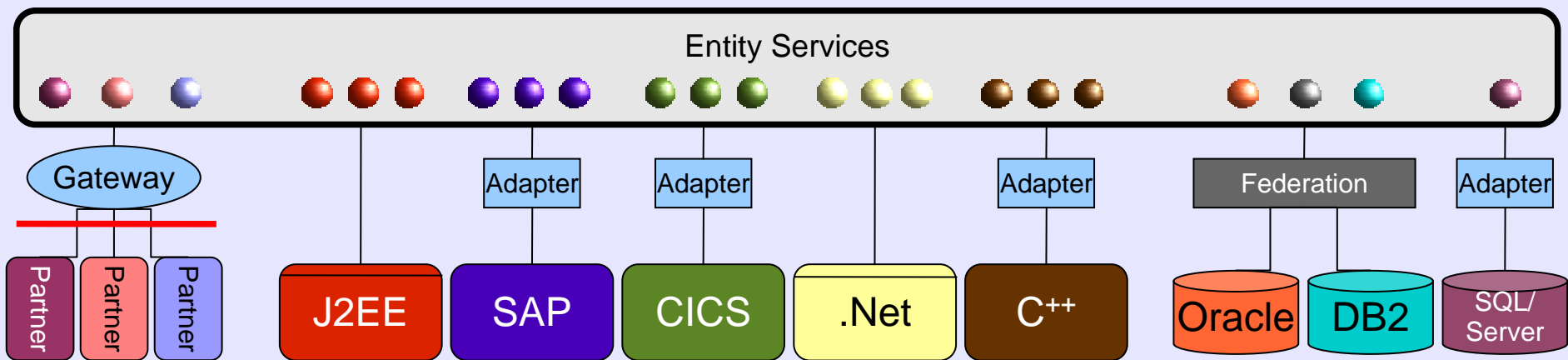
.Net

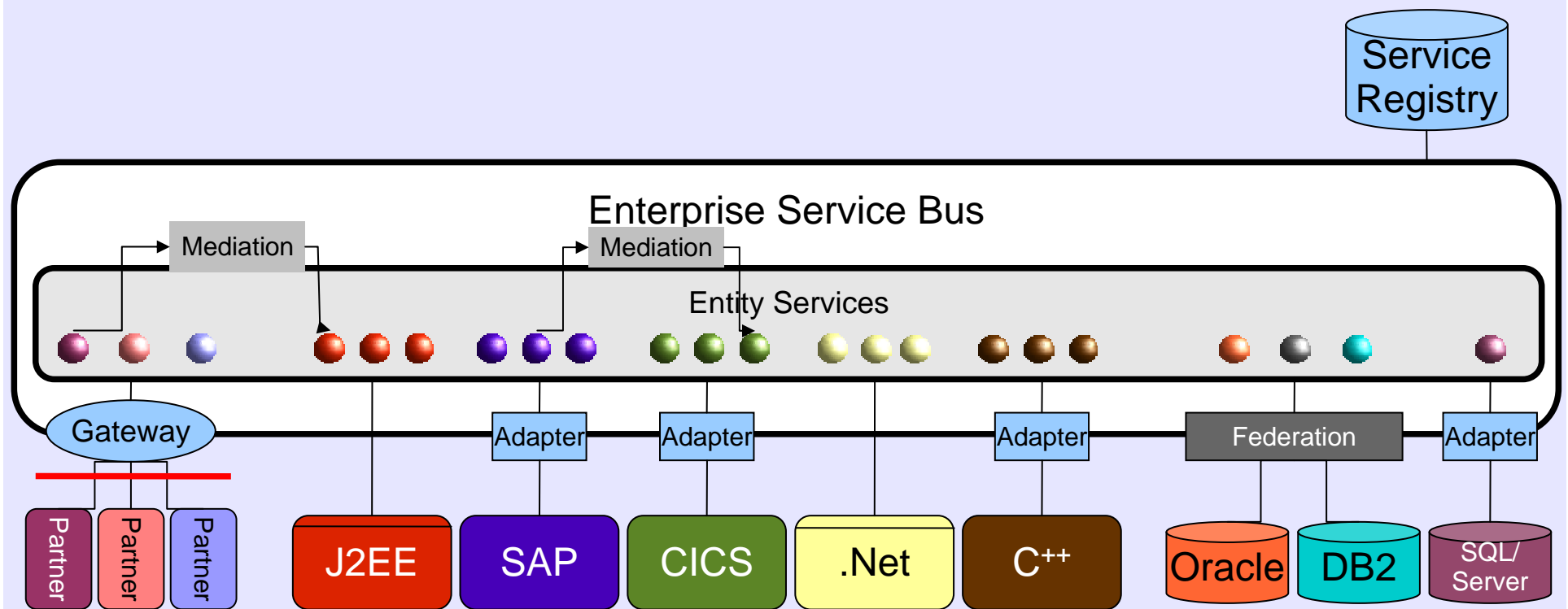
C++

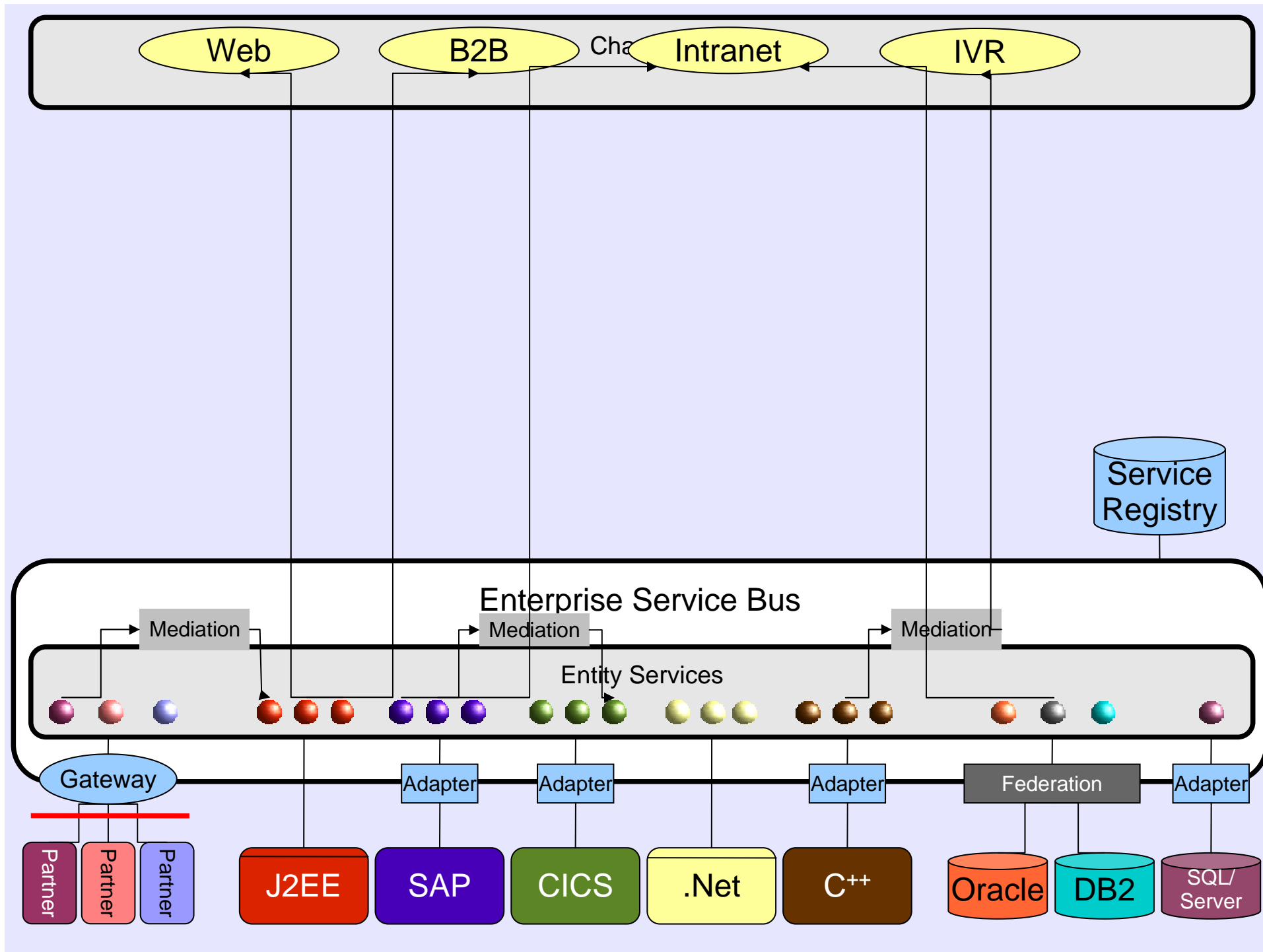
Oracle

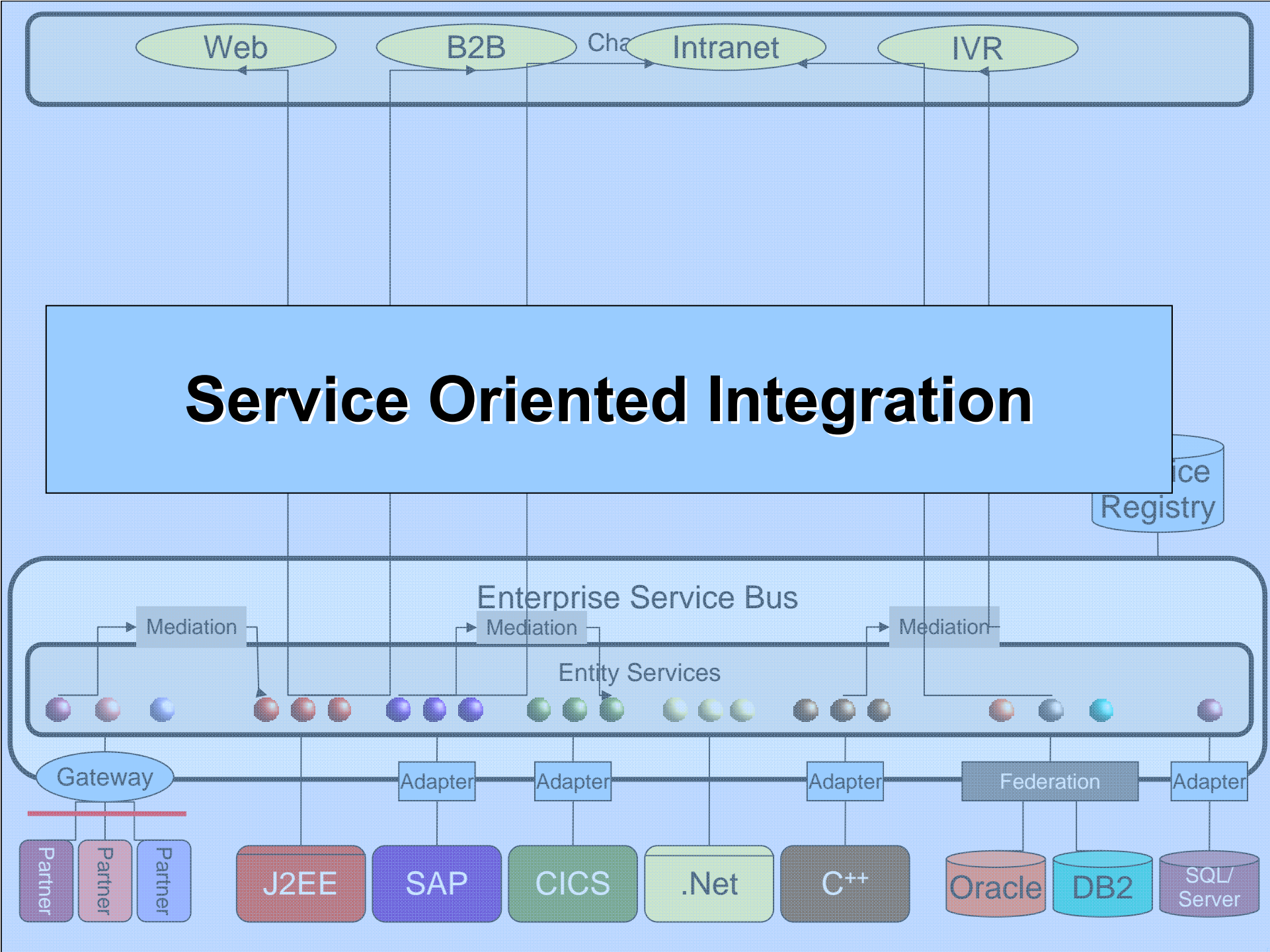
DB2

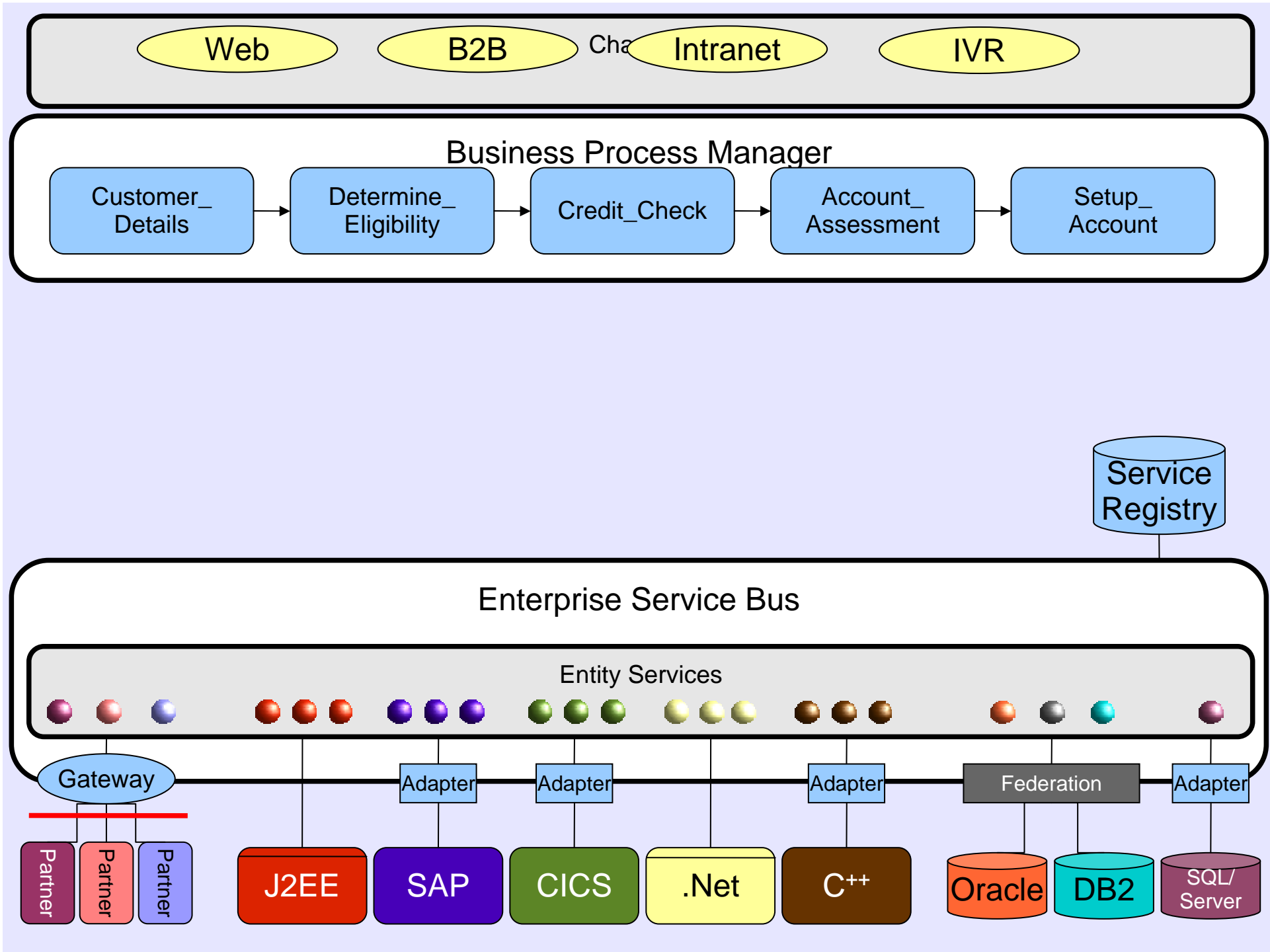
SQL/
Server

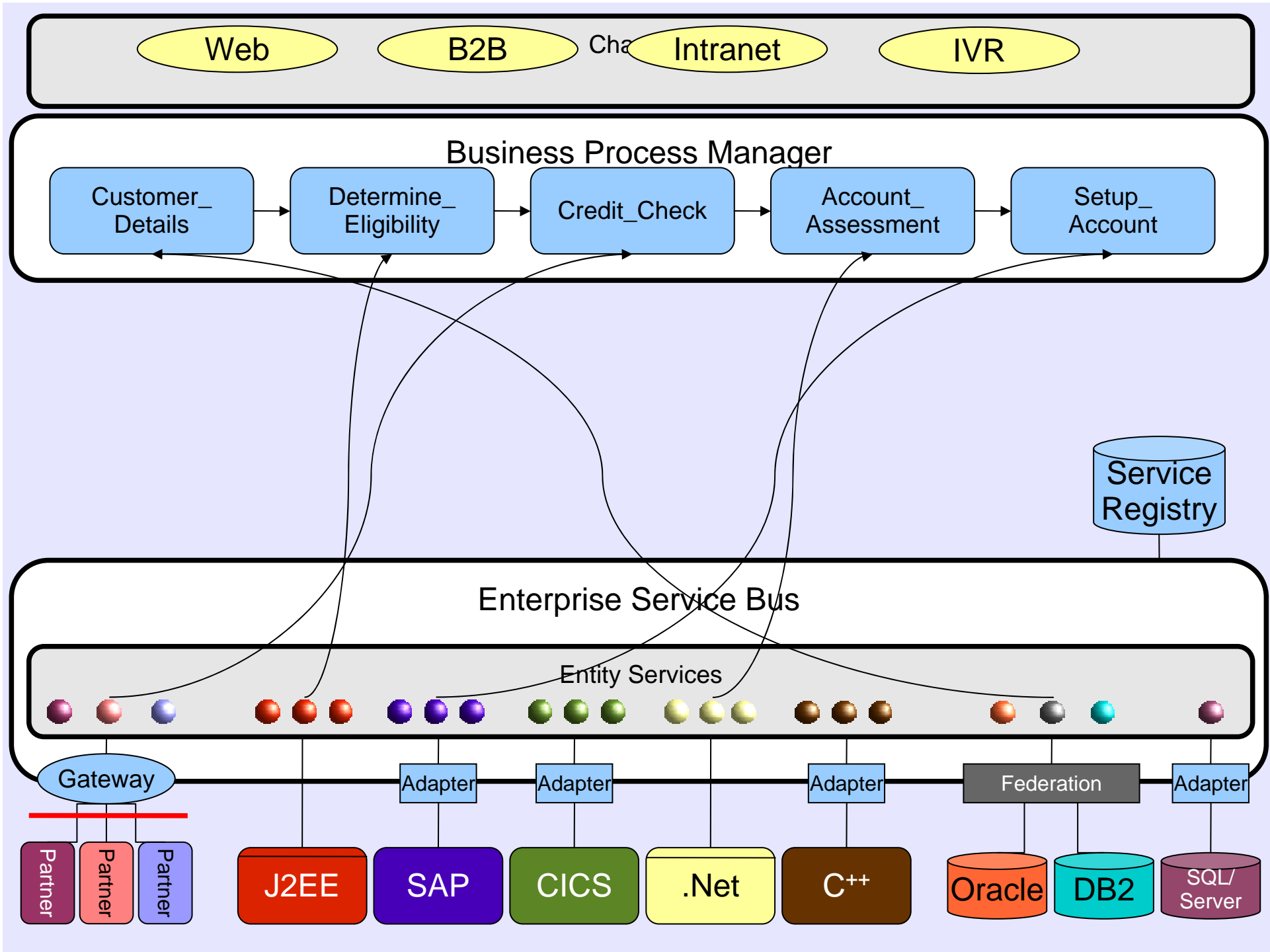


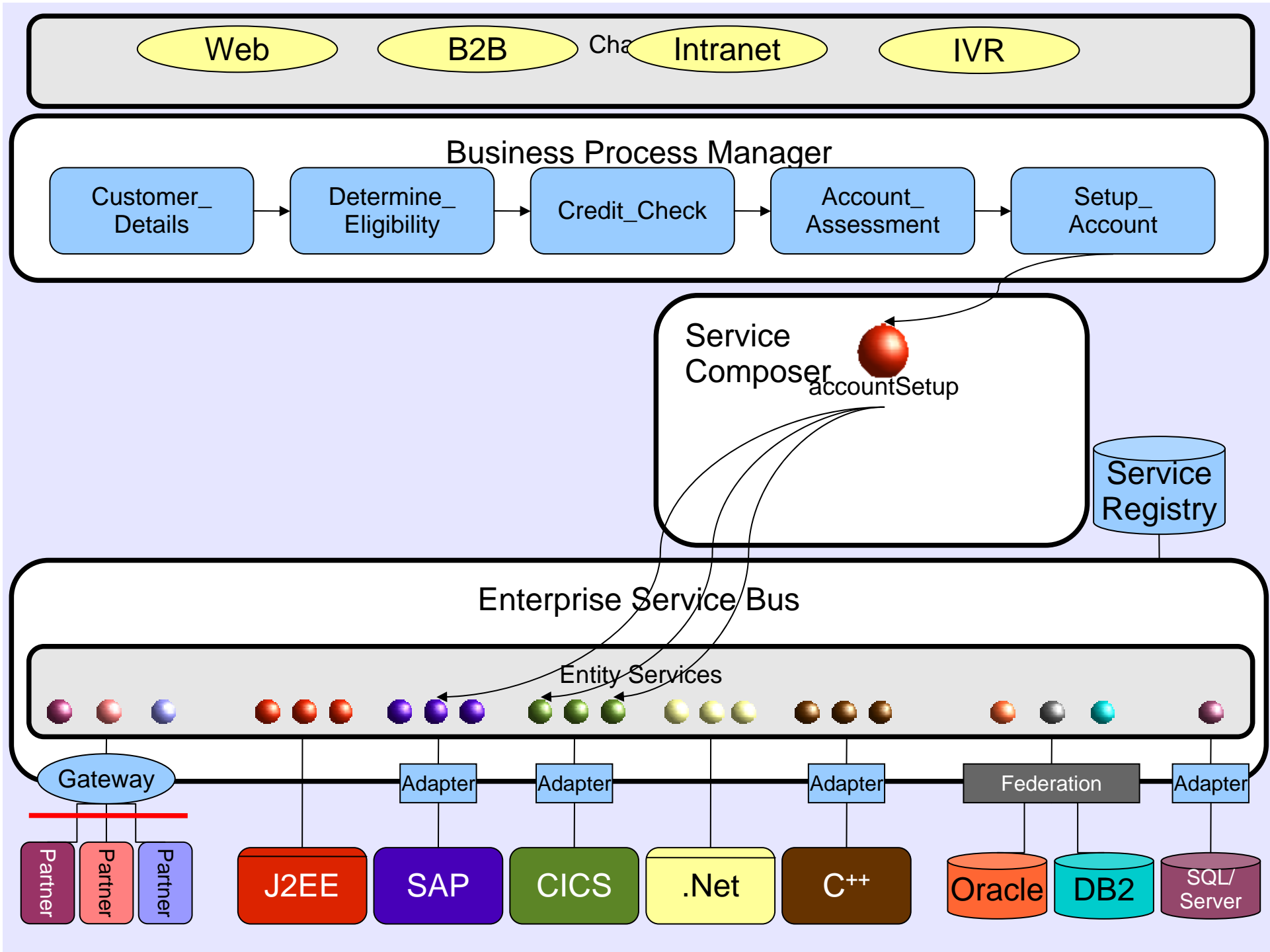


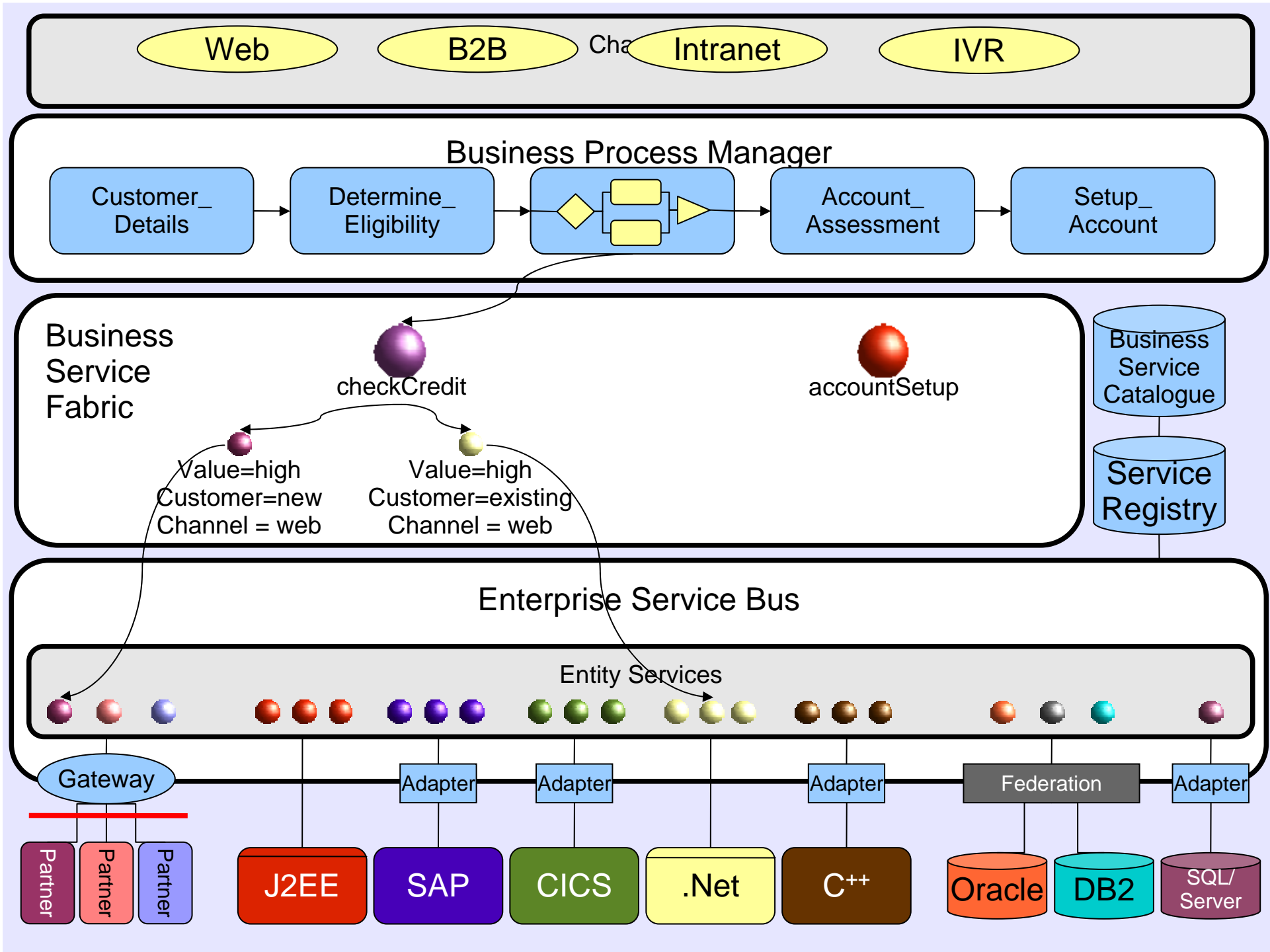












Web

B2B

Cha

Intranet

IVR

Business Process Layer

Business Services Layer

Service Integration Layer

Gateway

Partner

Partner

Partner

J2EE

SAP

CICS

.Net

C++

Oracle

DB2

SQL/Server

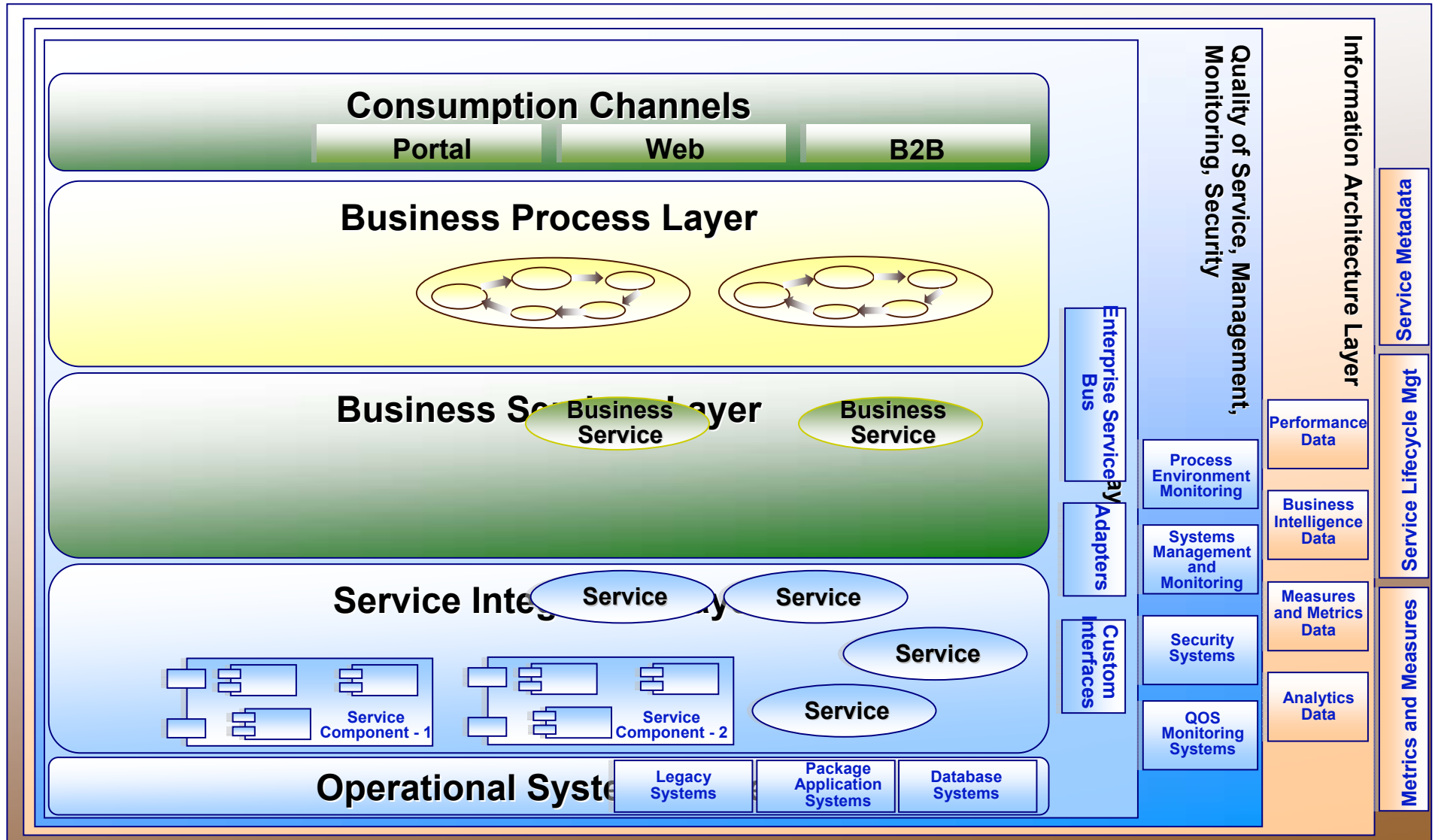
Adapter

Adapter

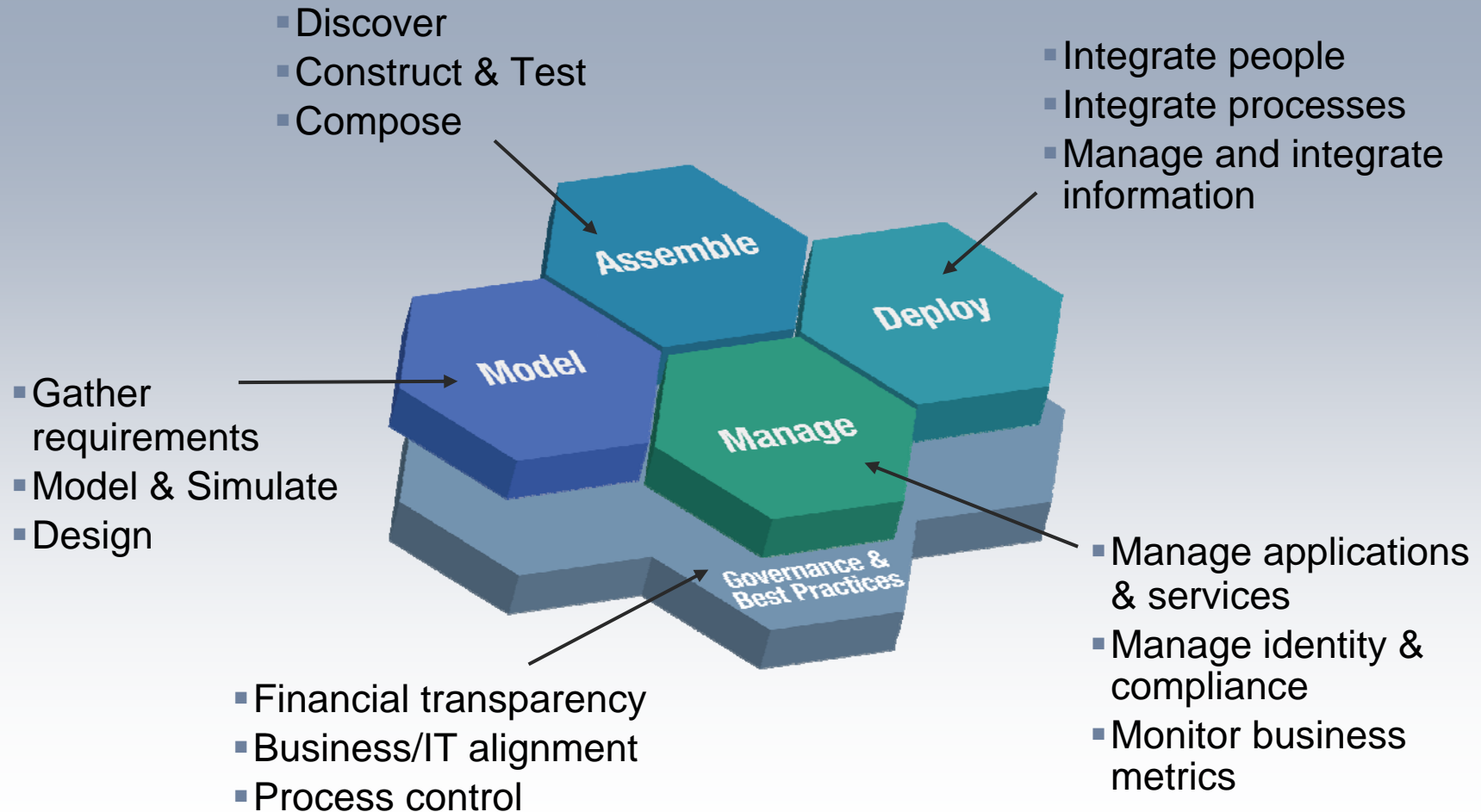
Adapter

Federation

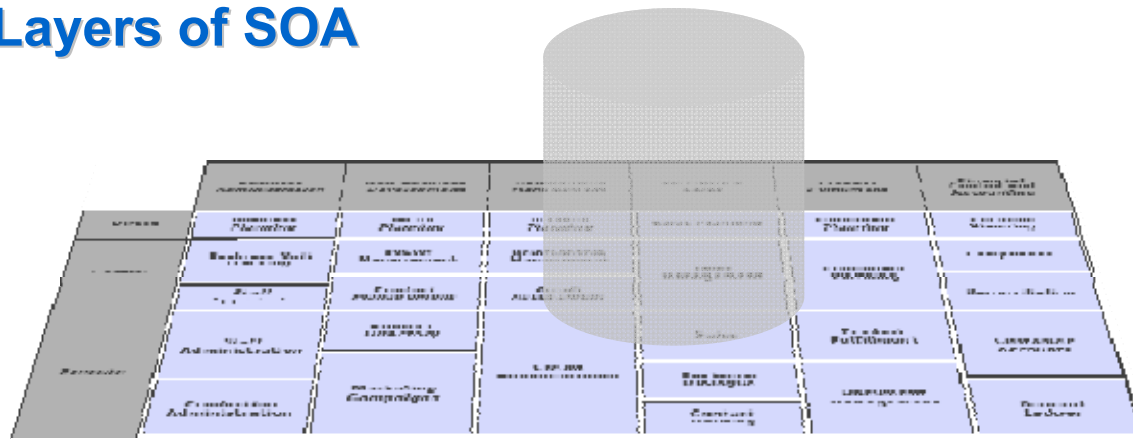
Adapter



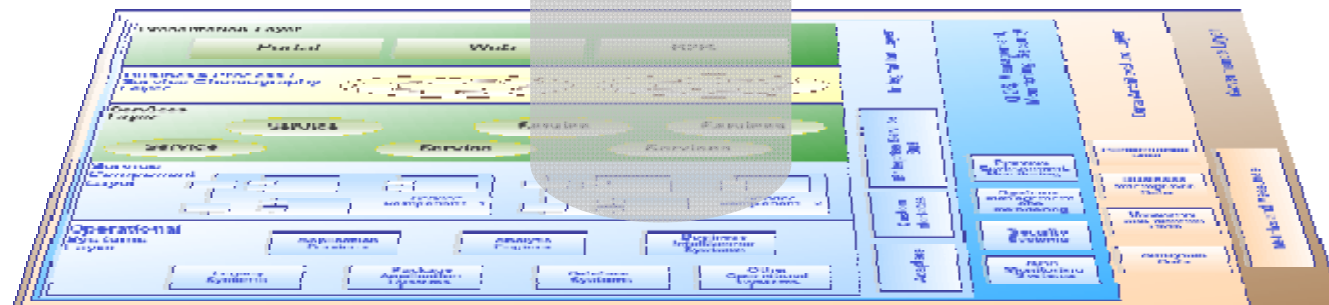
The SOA Lifecycle



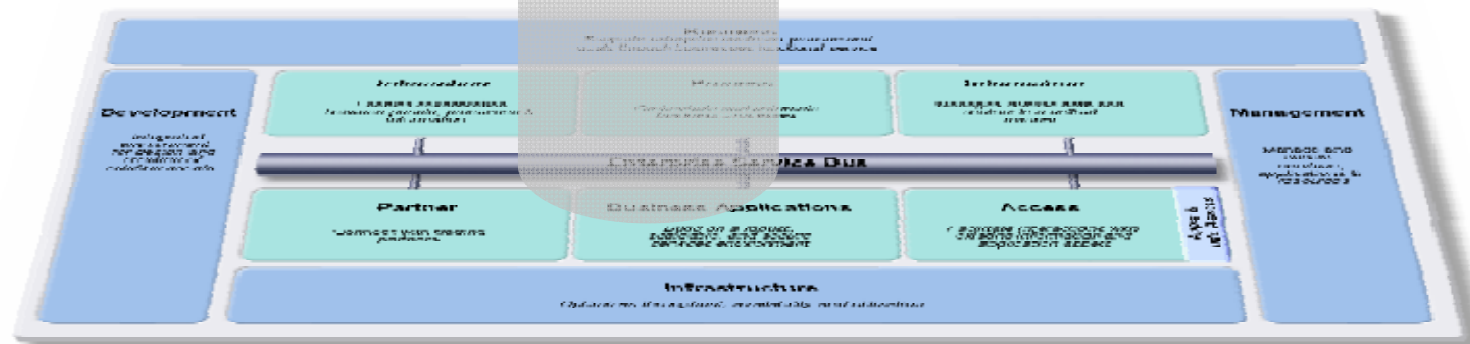
Layers of SOA



Business View

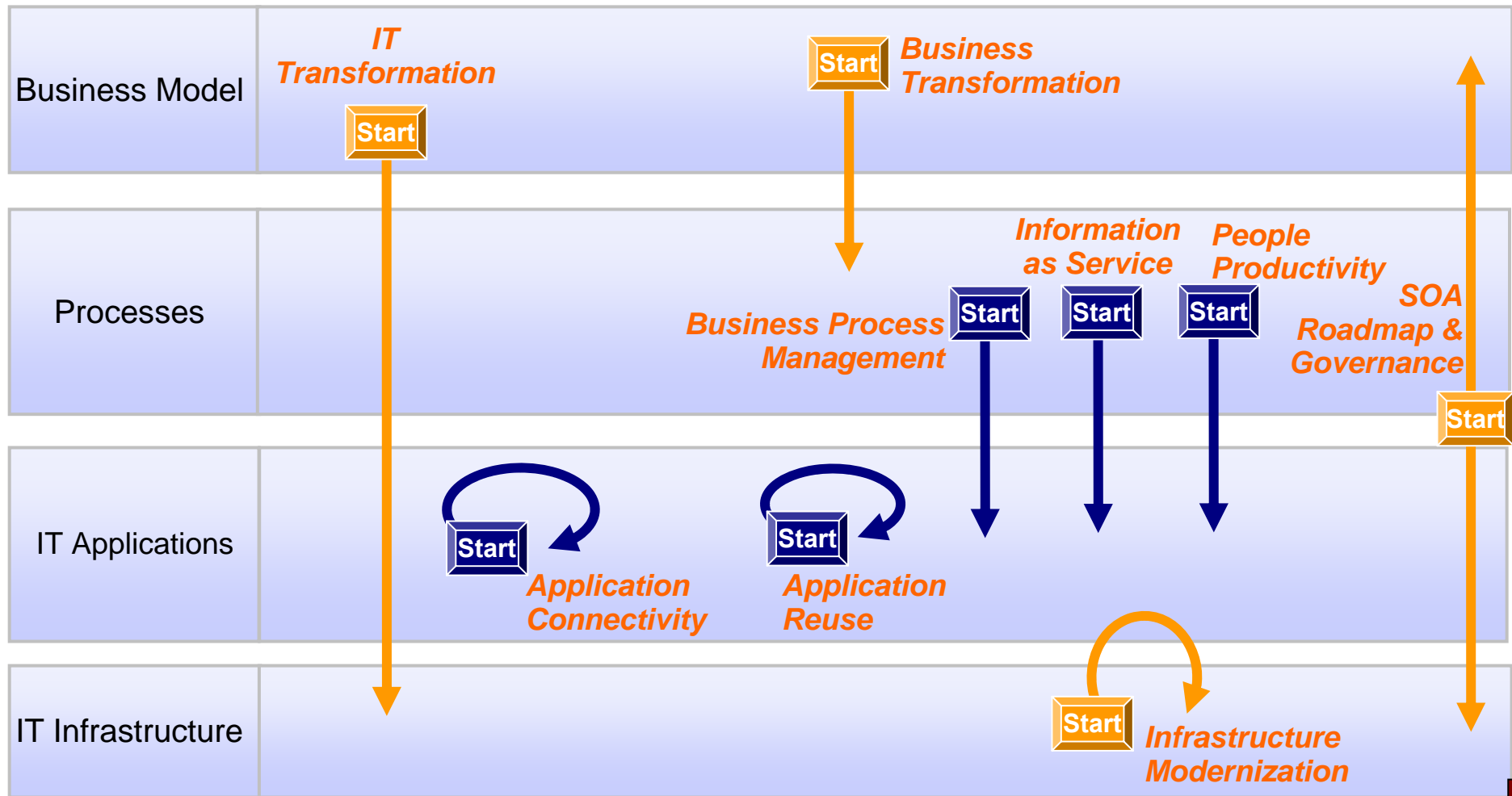


Architecture View

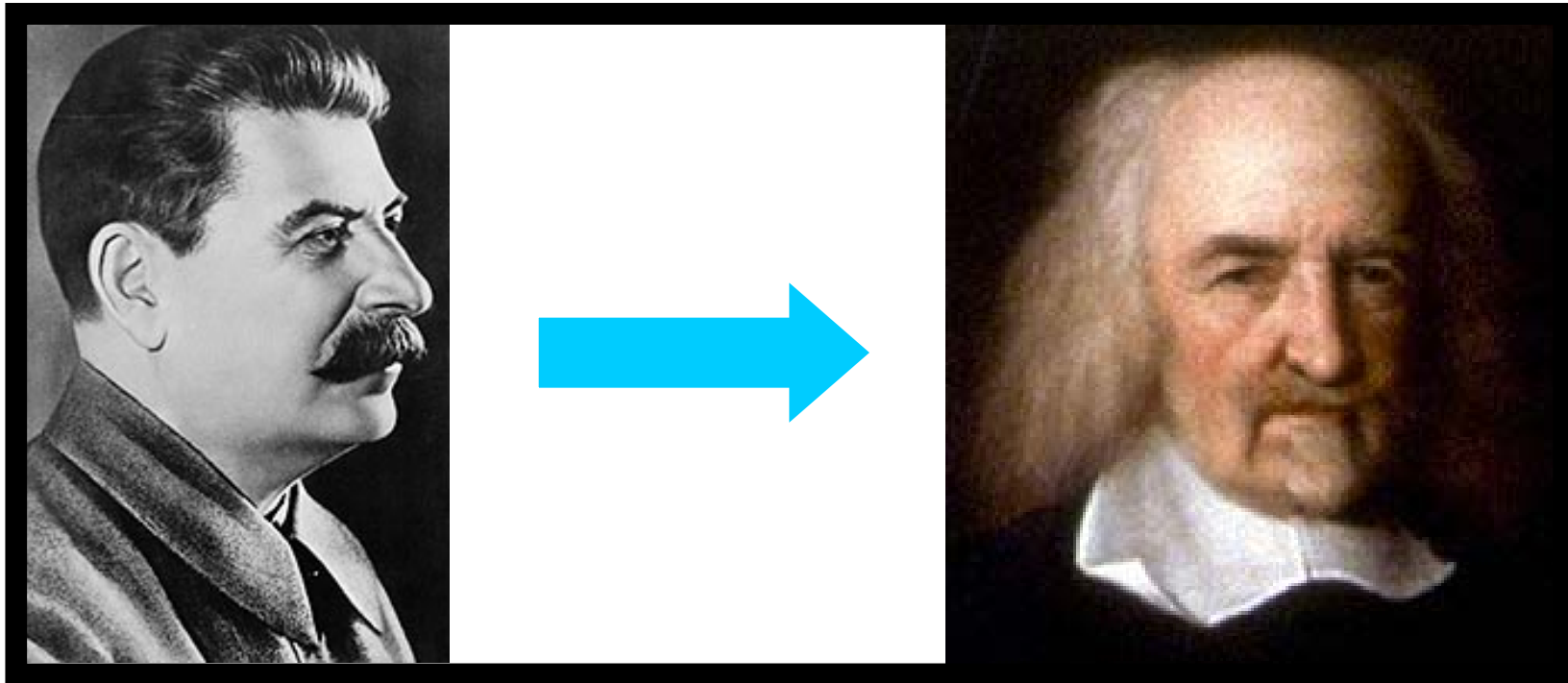


IT View

9 Entry Points for a SOA Transformation, allow companies to identify the individually best suited starting point



So what type of Governance do we want to use?

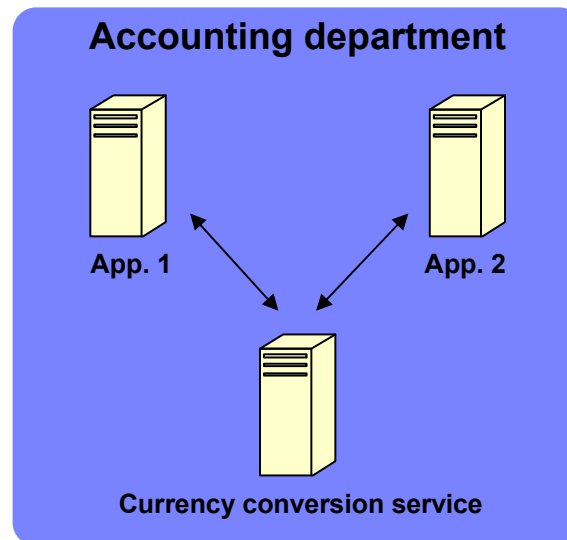


Stalin

Hobbes



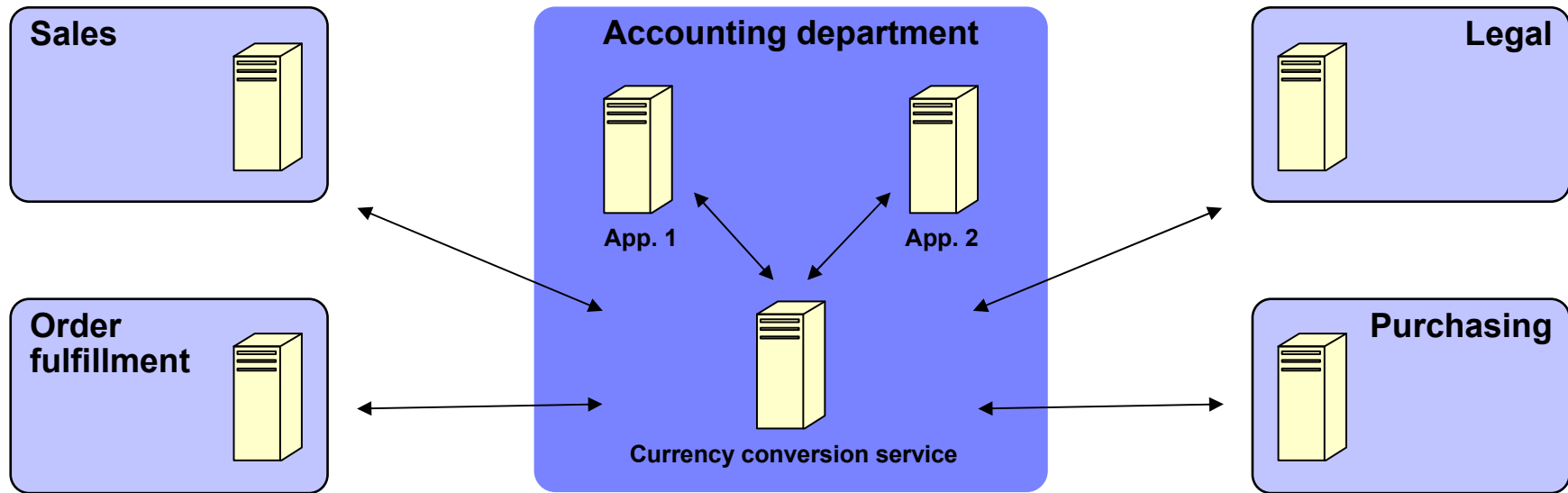
A scenario on the importance of SOA governance – step 1



1. Provide a currency service that fills a specific line of business (LOB)

* Scenario from *Introduction to SOA Governance*, Bobby Woolf.

A scenario on the importance of SOA governance – step 2

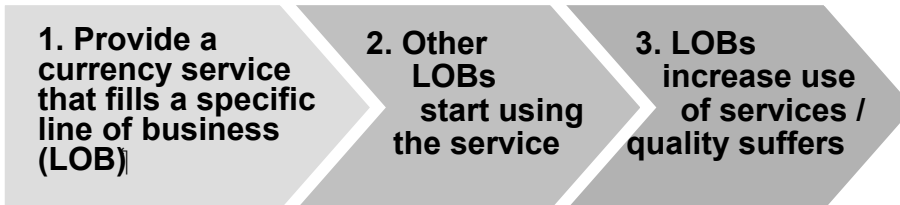
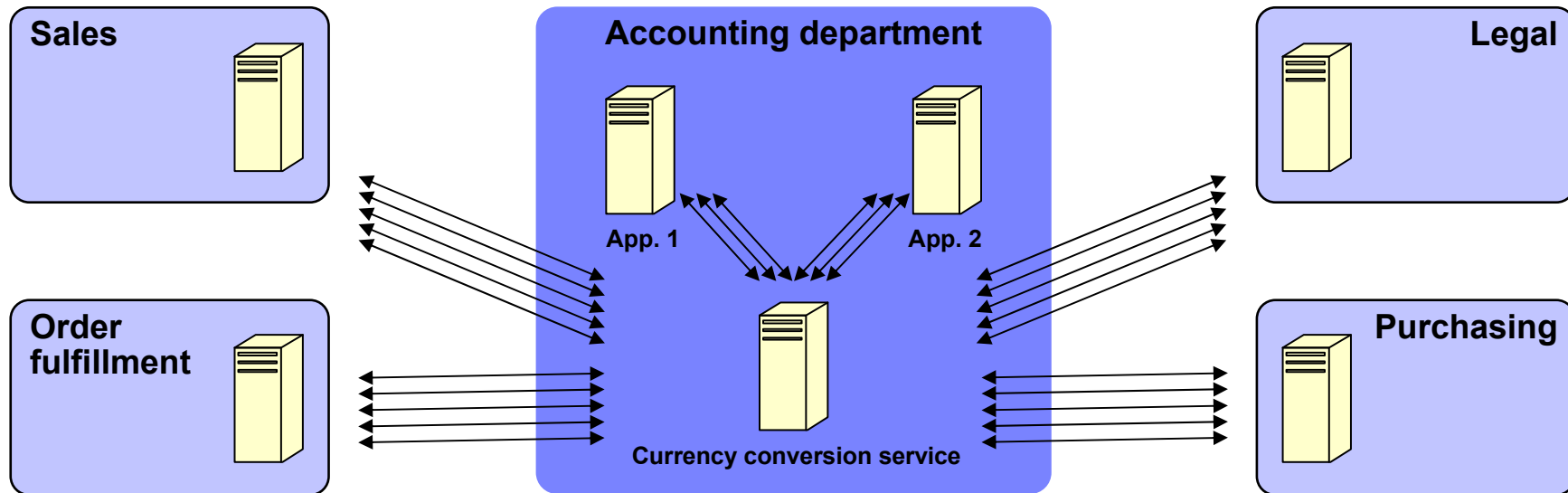


1. Provide a currency service that fills a specific line of business (LOB)
2. Other LOBs start using the service

Reuse



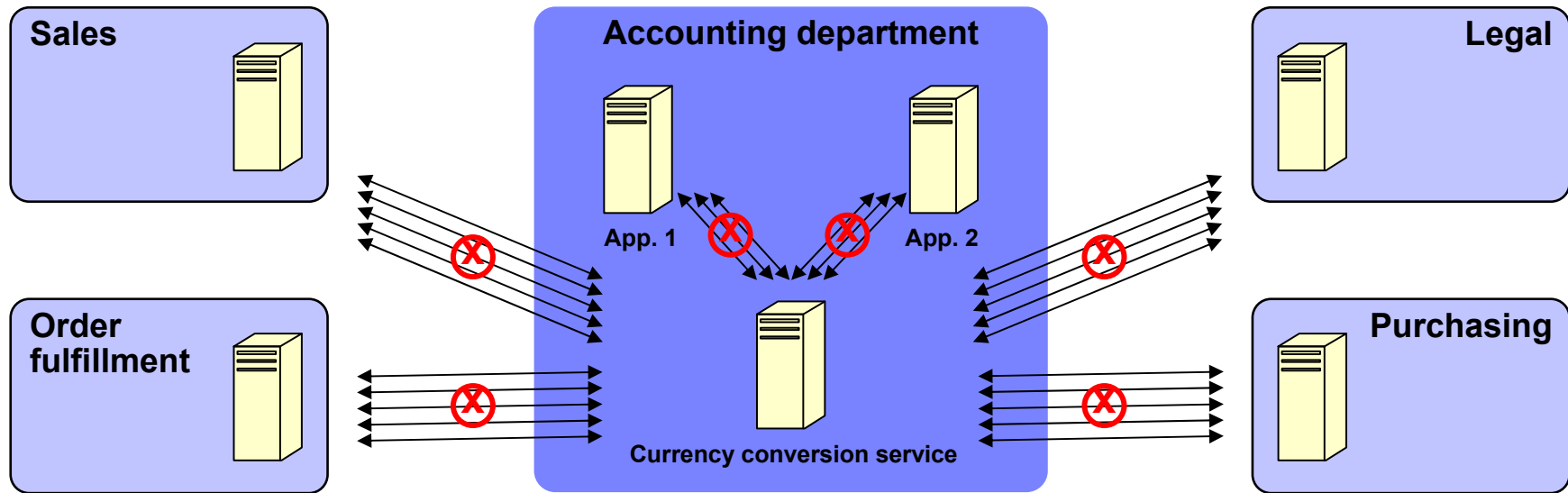
A scenario on the importance of SOA governance – step 3



Overload ?



A scenario on the importance of SOA governance – step 3

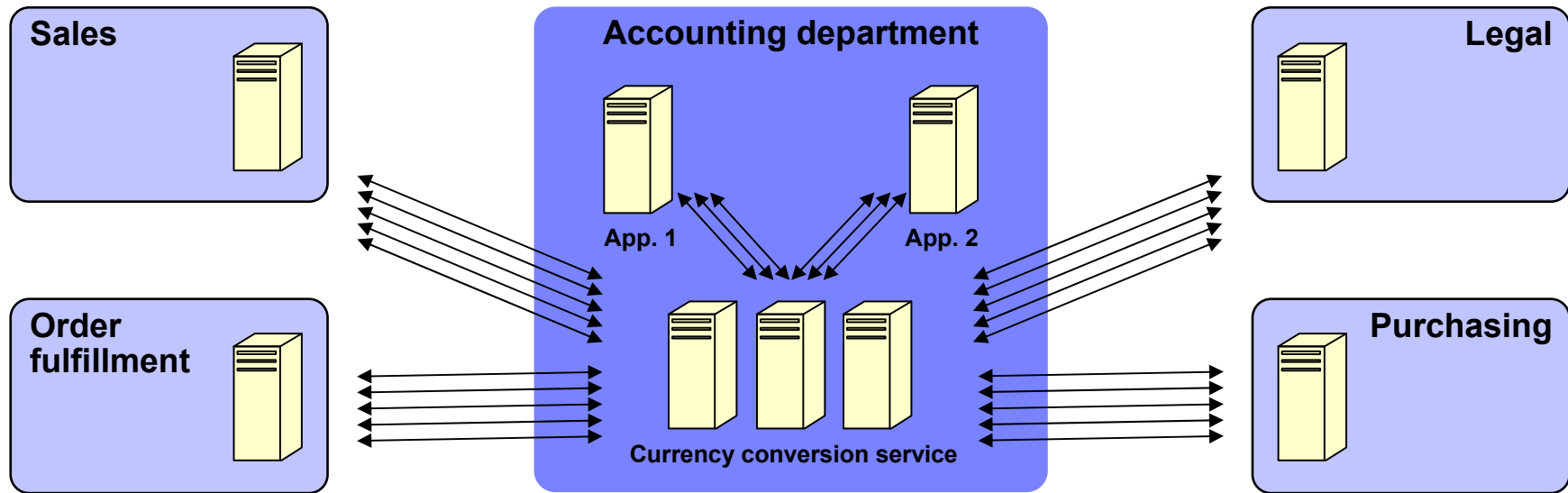


1. Provide a currency service that fills a specific line of business (LOB)
2. Other LOBs start using the service
3. LOBs increase use of services / quality suffers

QoS

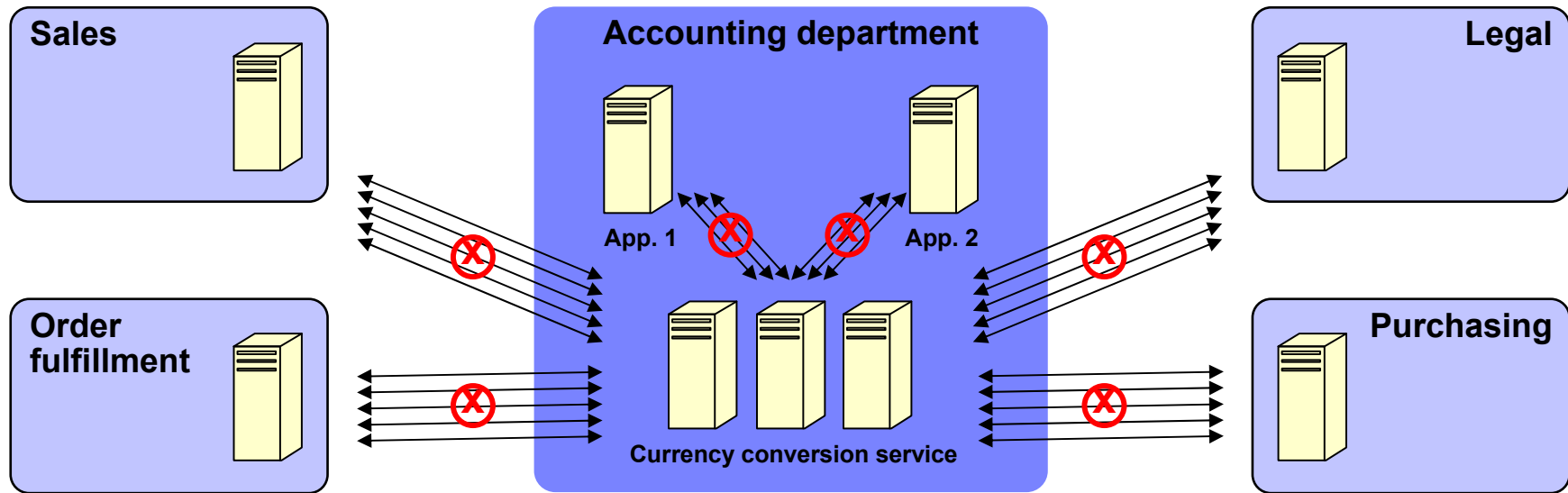


A scenario on the importance of SOA governance – step 4



1. Provide a currency service that fills a specific line of business (LOB)
2. Other LOBs start using the service
3. LOBs increase use of services / quality suffers
4. Service is fixed at provider's expense

A scenario on the importance of SOA governance – step 5

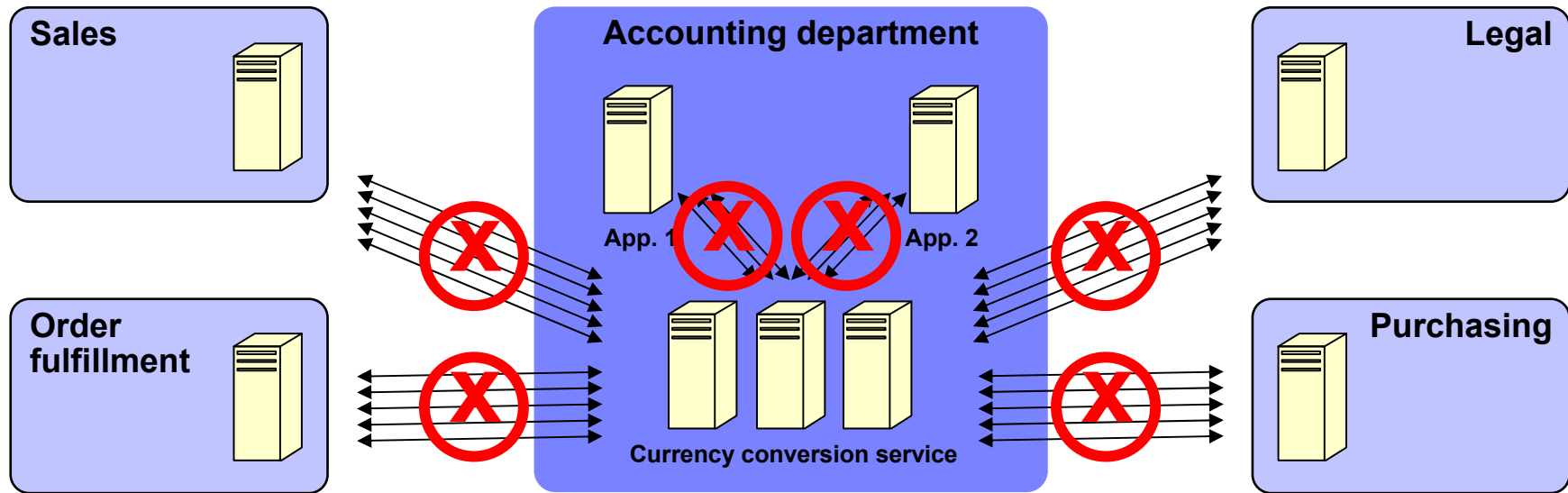


1. Provide a currency service that fills a specific line of business (LOB)
2. Other LOBs start using the service
3. LOBs increase use of services / quality suffers
4. Service is fixed at provider's expense
5. Fix works temporarily but problem reappears

More Overload

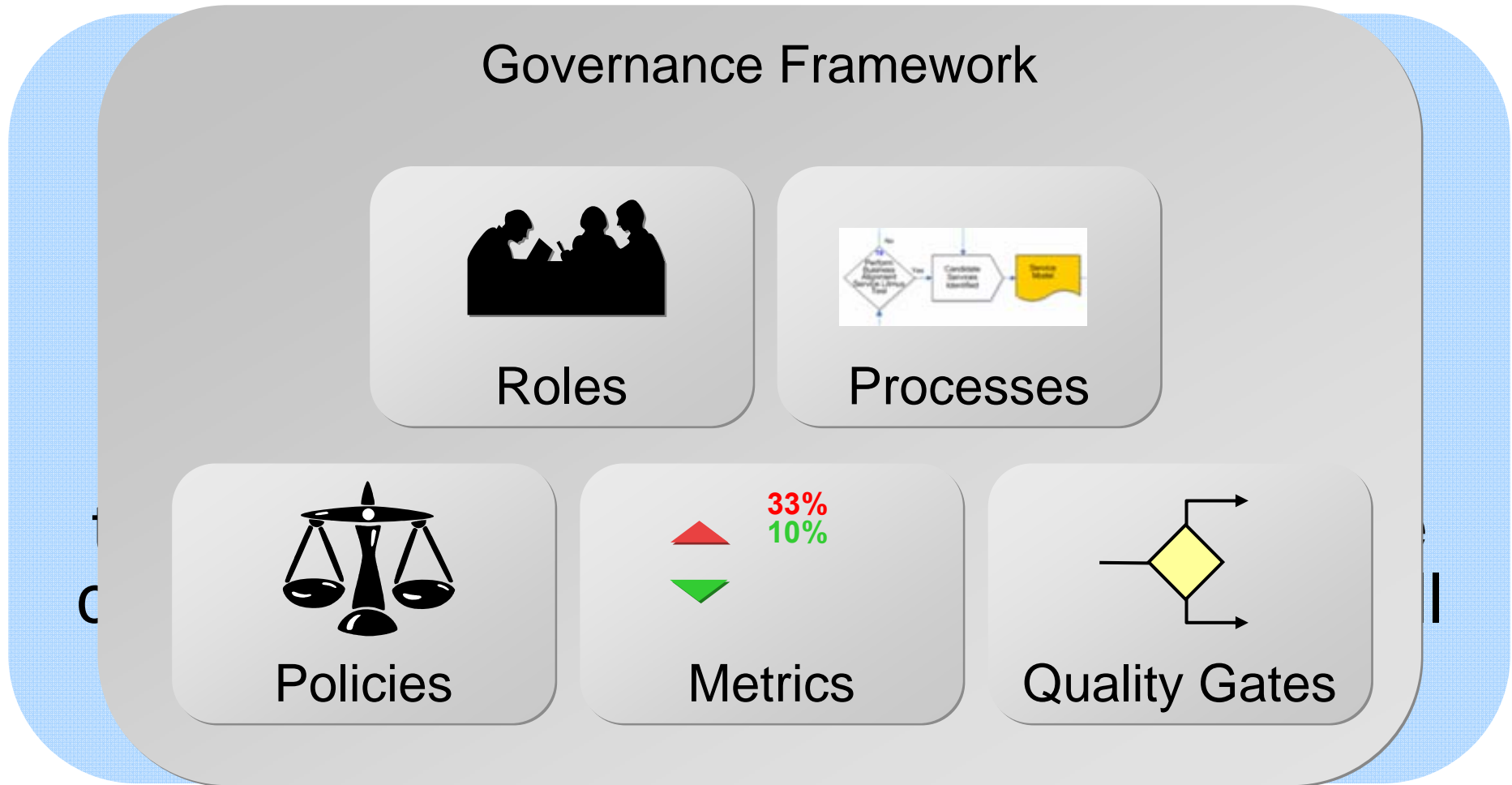


A scenario on the importance of SOA governance – step 6

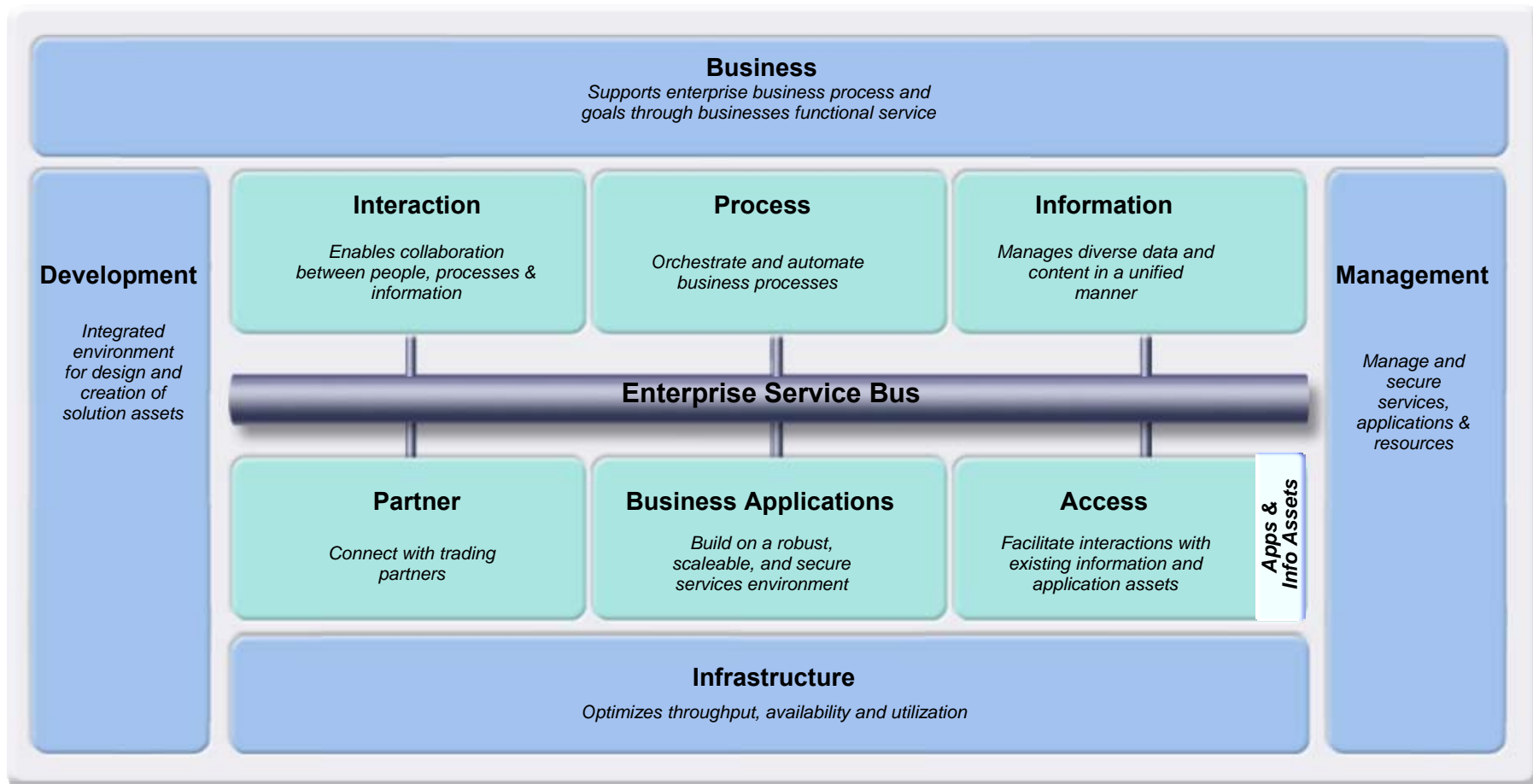


1. Provide a currency service that fills a specific line of business (LOB)
2. Other LOBs start using the service
3. LOBs increase use of services / quality suffers
4. Service is fixed at provider's expense
5. Fix works temporarily but problem reappears
6. Maintenance costs soar / provider ends service

What is Governance ?



IBM SOA Platform



Align business architecture and IT architecture

