

2009-01-28

A thick, light green wavy line that starts on the left, dips down, and then rises to the right, ending at the top right of the slide.

Integration and SOA at SEB Group IT

A decorative graphic at the bottom of the slide featuring a grey wavy line and a green wavy line that overlap and create a layered effect.

Anders Jäder
Head of Application Architecture and ICC

Java at SEB

for what?



Internet bank for SEB in Germany

Corporate and Institutions



C&I Online

Trading Station

Multi-function e-services designed to handle a range of requirements

C&I Online

An increasing number of SEB's Internet services are gathered in Corporate & Institutional Services Online (C&I Online). The basic idea is to give companies and financial institutions access to as many of SEB Merchant Banking's e-services as possible, via a single channel. For example, our clients can already access tools for corporate authorisation, cash management and securities through C&I Online.

No matter what the client's initial requirements may be, it is simple to add new service areas as these

needs change and new applications are launched.

All our sub-systems are designed for professional users who demand excellent interfaces. Clients only need to log in to one area, irrespective of whether they wish to use one or more of the following sub-systems:

Corporate authorisation

The heart of C&I Online is the Corporate Authorization System, our tool for managing authorization. The system minimises the need for hard copy authorisation for both the client and the bank, since authorisations can

be checked, distributed and recalled through an electronic interface. Management is therefore able to delegate and closely monitor responsibility for cash and custody accounts.

The authorisation system is the same for all the sub-systems under C&I Online, including Online Cash Management and Online Securities Services.

Trading Station

Our other multi-function e-service is Trading Station. This is a world-leading application for electronic trading in several asset classes. It also acts as a reliable source of information, presenting real-time rate data. Trading Station is available as a standard package but can also be adapted to provide customised solutions.

Integration and SOA – “One Pager”

SOA at SEB

A North European Financial Group

Group SEB

- 10 countries +
- 20 000 employees
- 600 branch offices
- 3.000.000 Internet customers
- 150 years

SOA Journey at SEB

- > 13 years
- Gartner best practice -96
- SOA University -96
- 4500 Services
- ~100 Service request/sec
- SOA generation 4
- ICC created 2007
- IBM Integration co-operation

IT at SEB

- IT Cost ~ 600 MUSD
- Data centres in 5 countries
- 2200 IT employees
- 1500 applications
- IBM mainframe (IMS, CICS, 5000MIPS)
- 700+ physical Unix machines
- 1300 Windows machines
- ...

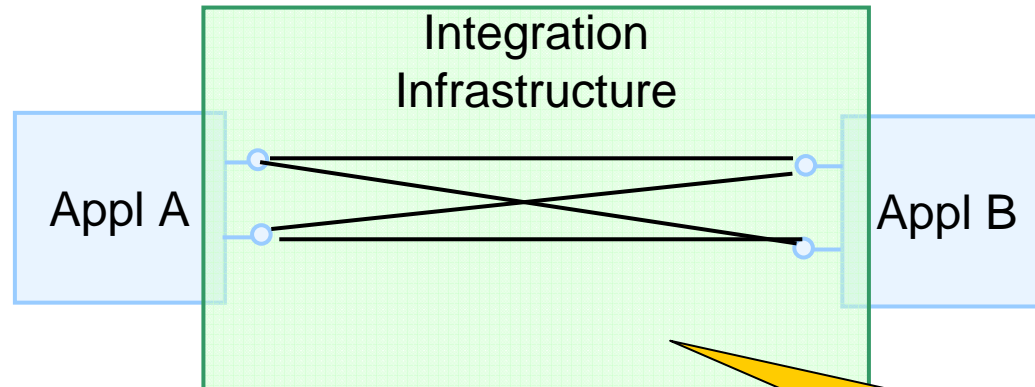
Integration solutions

- Information models
- IBM Integration solutions
 - MQ
 - Message Broker
 - WAS
 - WSRR
 - Rational
- Microsoft
- Amtrix
- Axway XiB
- Sonic MQ
- Informatica
-



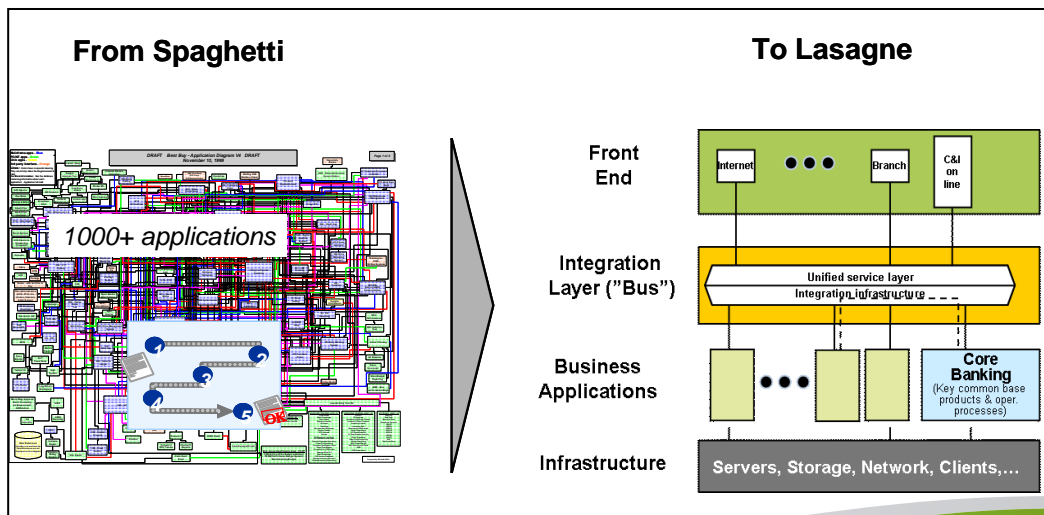
Group IT Integration

Integration Infrastructure



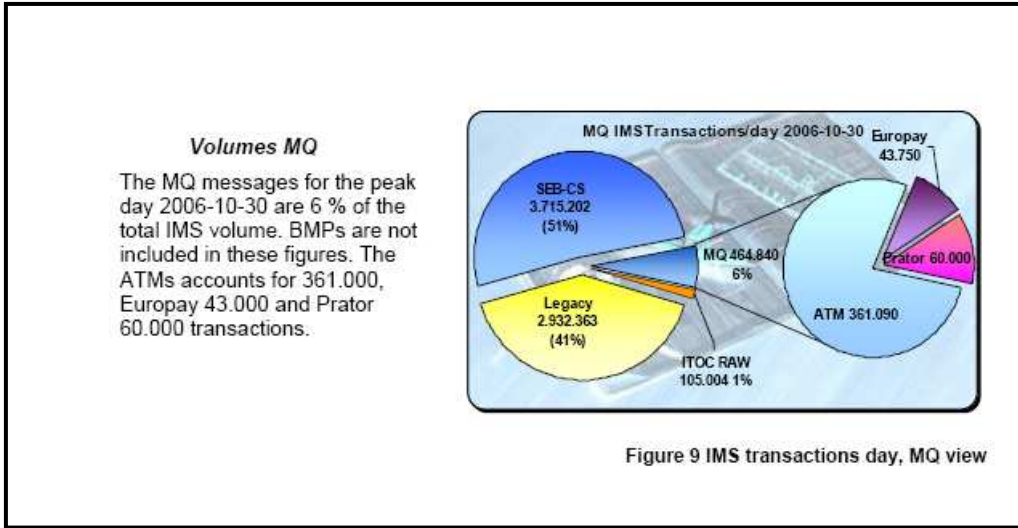
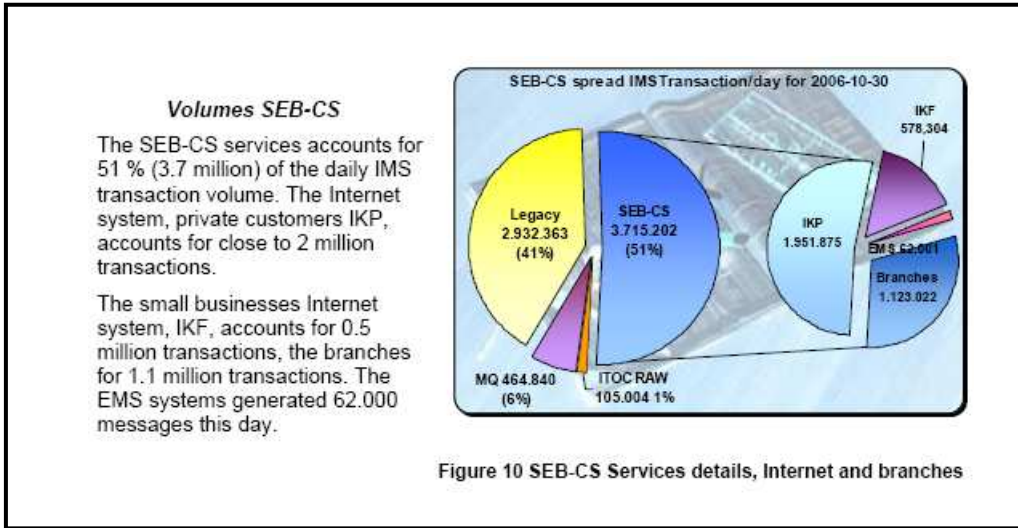
a very important piece that need to be improved as part of the journey from Spaghetti to Lasagne.

But also
as a very critical running component of the business today and forward.



Examples - Integration Infrastructure in operation today

- 130.000.000 transactions per month.
- 30% of transactions are Internet related
- 1.000.000 internet customers registered
- 120.000 internet customers per day.
- 7.000.000 transactions per day.
- 250 transactions per second
- 100 IMS regions – theoretical =1000 transactions per seconds.
- 4.000 branch users generates 1.000.000 transactions per day
- Volume per channel MQ = 6%, SEB-CS = 51%, Legacy = 41 %
- HDD:360
- SEB-CS Business Objects:257
- SEB-CS Services:3823
- Transactions used by SEB-CS Services:2413
- Transactions defined in IMS:8681
- Test environments: 3 Acceptance, Proj, SysTest (new)
- Cobol Modules:14.441
- SEBOL Modules:12.001
- Assembler modules:3578.



Integration concept

SEB Overview

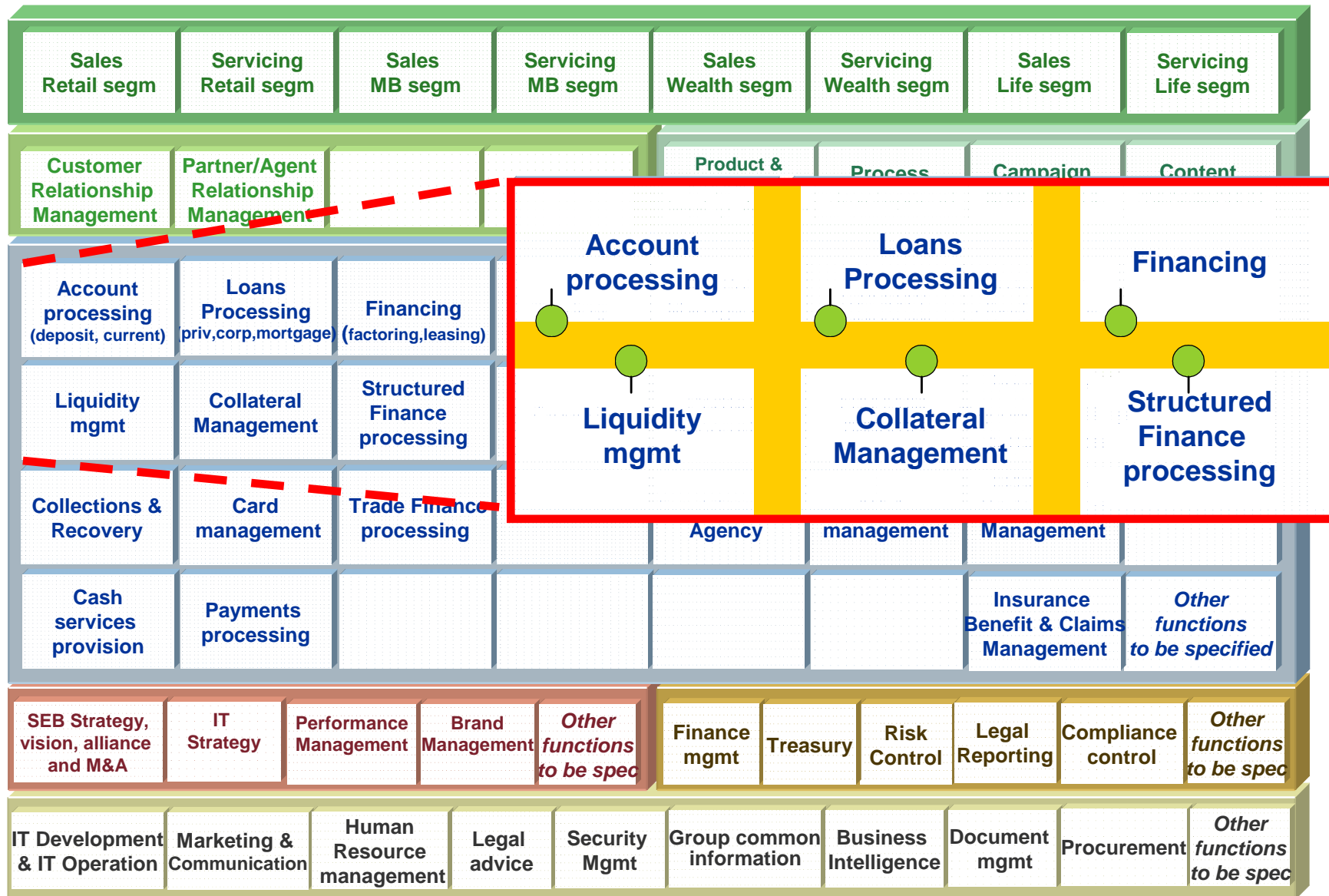
Business Function Map



Sales Retail segm	Servicing Retail segm	Sales MB segm	Servicing MB segm	Sales Wealth segm	Servicing Wealth segm	Sales Life segm	Servicing Life segm			
Customer Relationship Management	Partner/Agent Relationship Management			Product & Proposition develop. & mgmt	Process development	Campaign plan.& exec.	Content management			
Account processing (deposit, current)	Loans Processing (priv,corp,mortgage)	Financing (factoring,leasing)	Trading	Portfolio Management	Advisory provision	Insurance client contract Services				
Liquidity mgmt	Collateral Management	Structured Finance processing	Custody	Portfolio Accounting	Financial research	Insurance Payments, Billing & Collection				
Collections & Recovery	Card management	Trade Finance processing		Fund Transfer Agency	M&A management	Insurance Underwriting Management				
Cash services provision	Payments processing					Insurance Benefit & Claims Management	Other functions to be specified			
SEB Strategy, vision, alliance and M&A	IT Strategy	Performance Management	Brand Management	Other functions to be specified	Finance mgmt	Treasury	Risk Control	Legal Reporting	Compliance control	Other functions to be specified
IT Development & IT Operation	Marketing & Communication	Human Resource management	Legal advice	Security Mgmt	Group common information	Business Intelligence	Document mgmt	Procurement	Other functions to be specified	

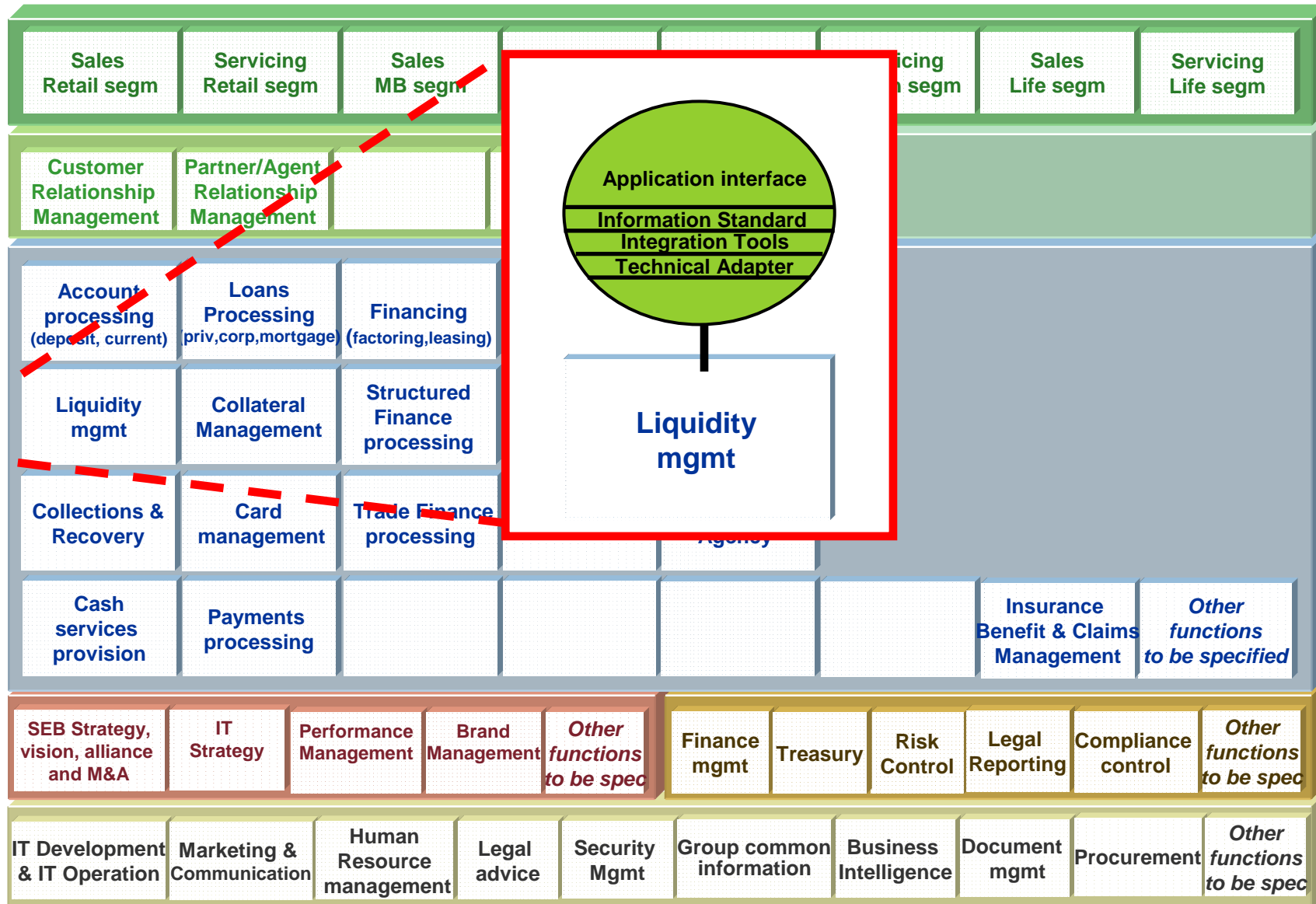
SEB Overview

Business Function Map



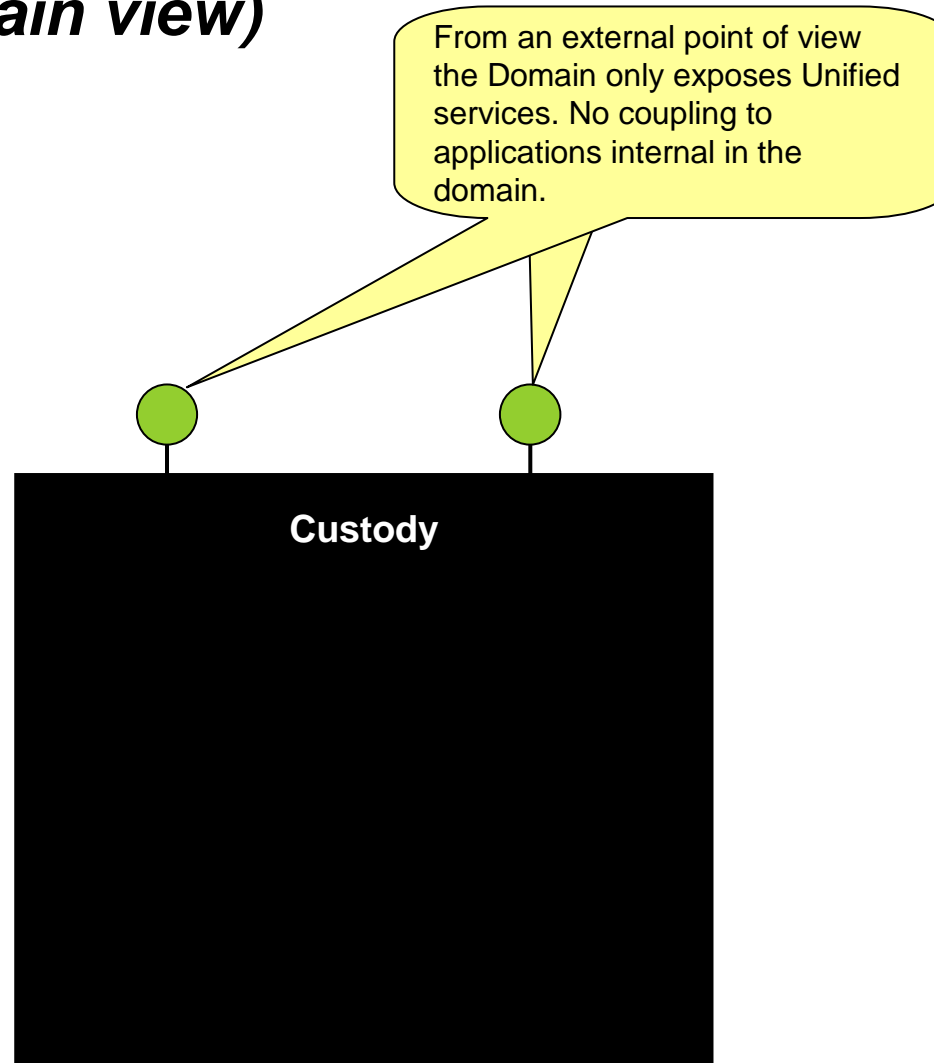
SEB Overview

Business Function Map



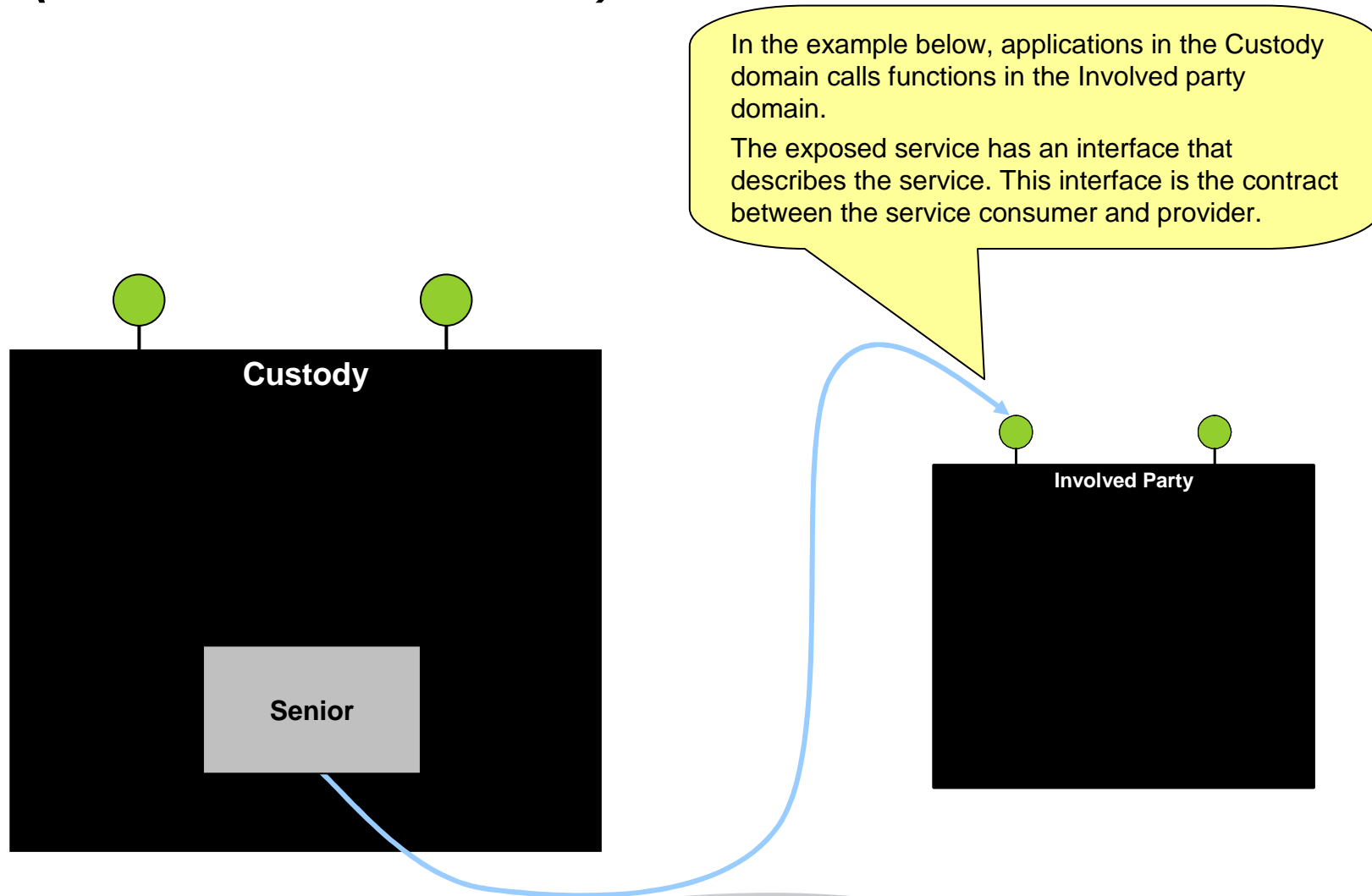
Business domains with applications

(external domain view)



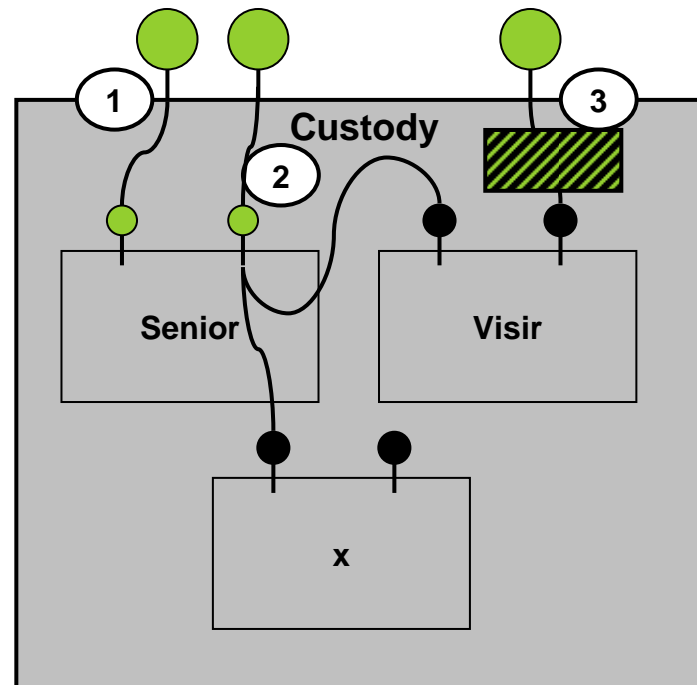
Business domains with applications

(external domain view)



Business domains with applications

(internal domain view)



Unified services are services exposed by the applications in the domain.

The exposed services can be:

- 1 existing services in the applications
- 2 new services that wraps old services
- 3 new services that wraps old services by the Integration platform tools.

Business domains with applications

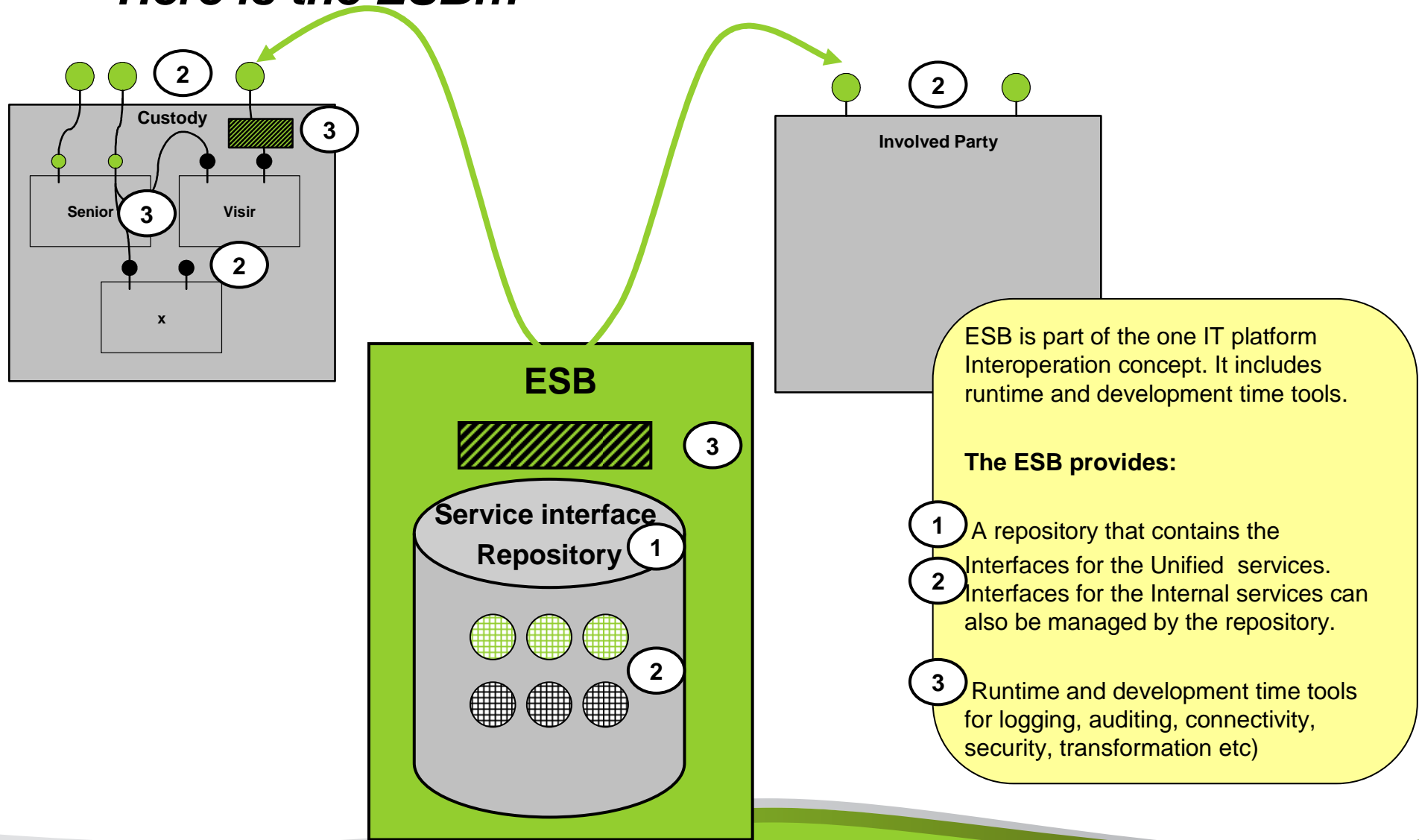
OK, so where is the ESB then?

That is a good question, but...

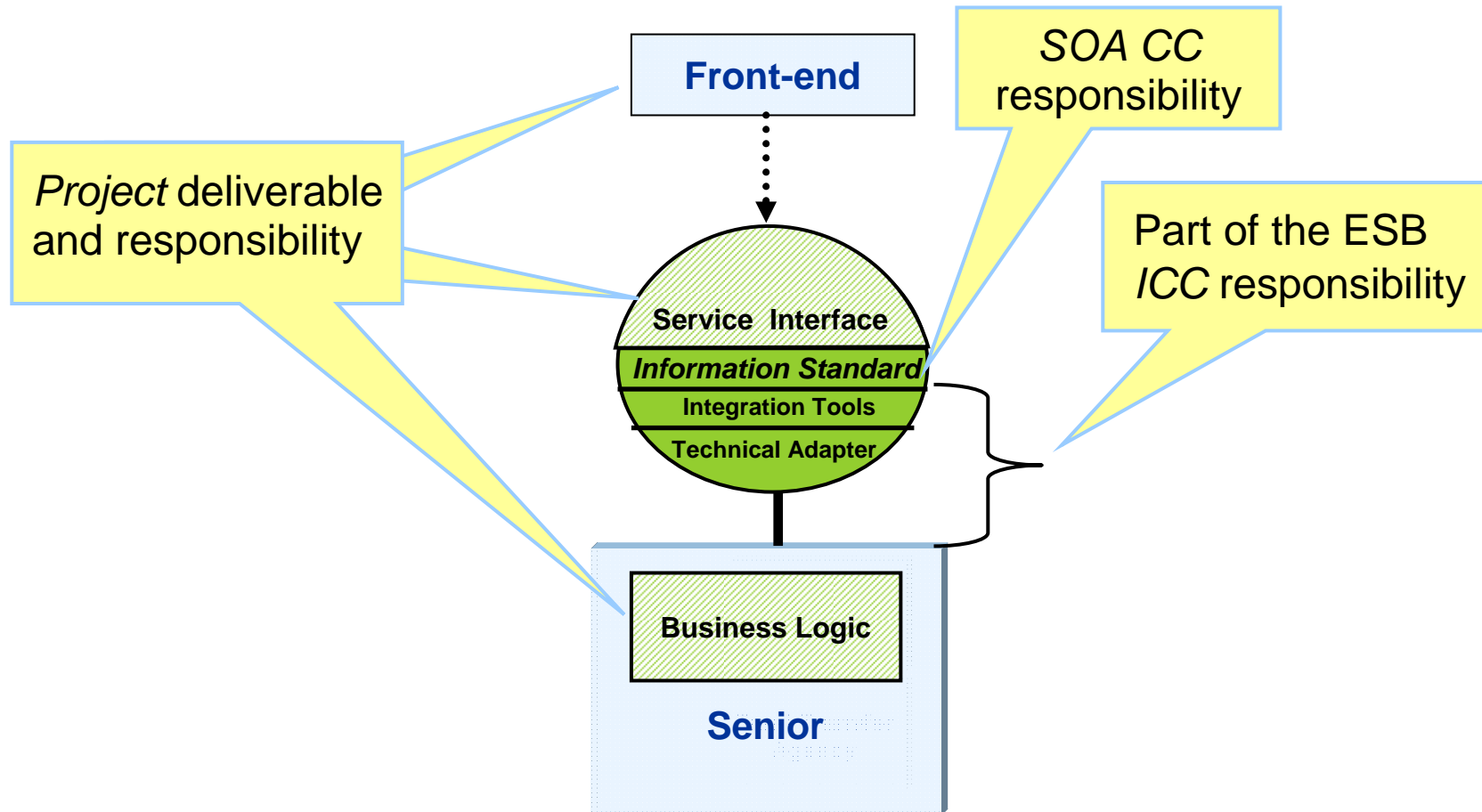
The application landscape and the application supporting functions are much more important!

Business domains with applications

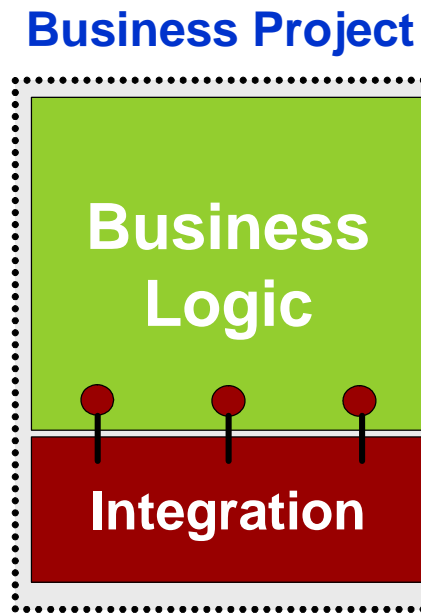
Here is the ESB...



What does a service consist of ..



**Group IT ICC
and
Group IT SOA CC**

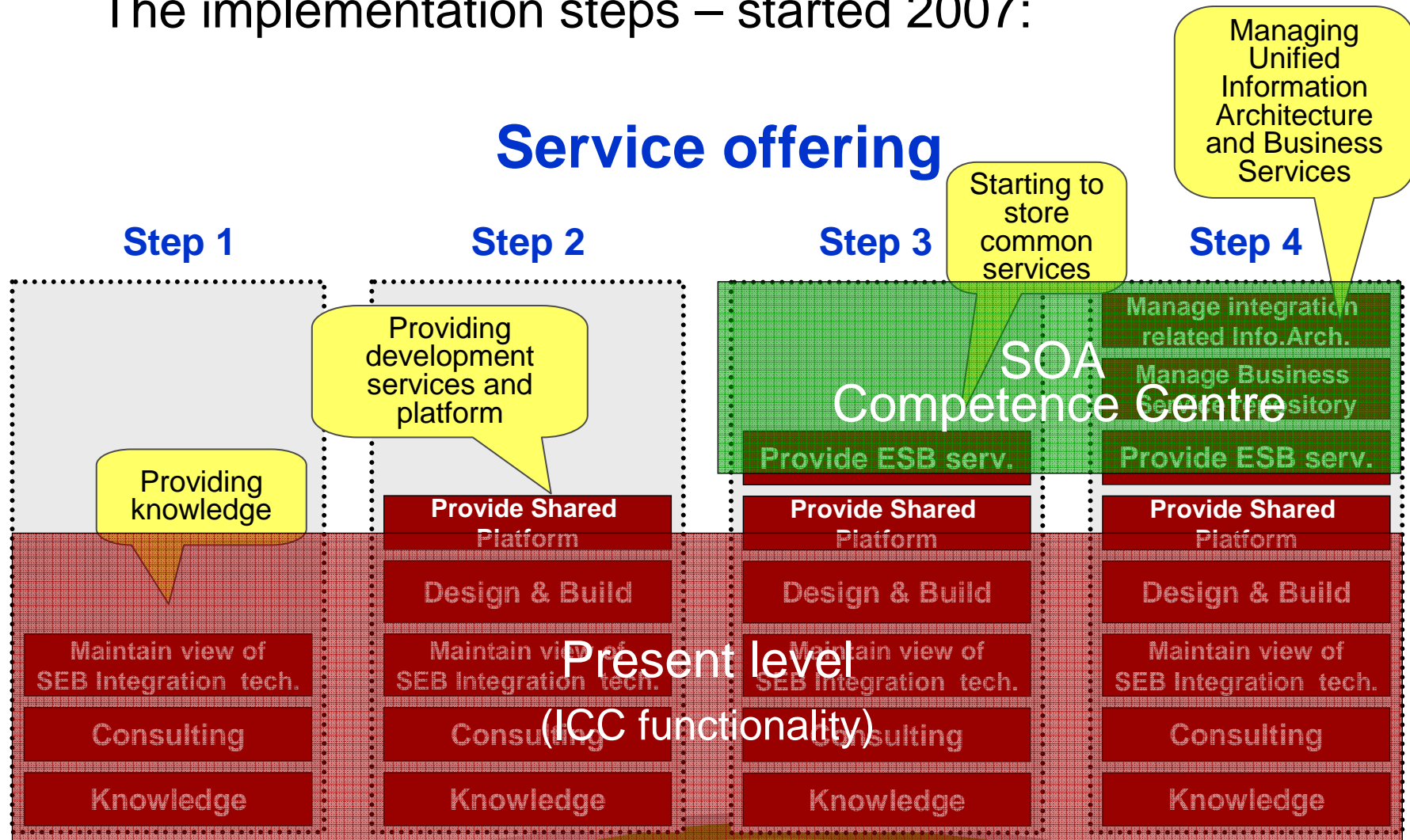


ICC = The Integration Service Provider

Do not develop own integration solutions

ICC Organization roadmap

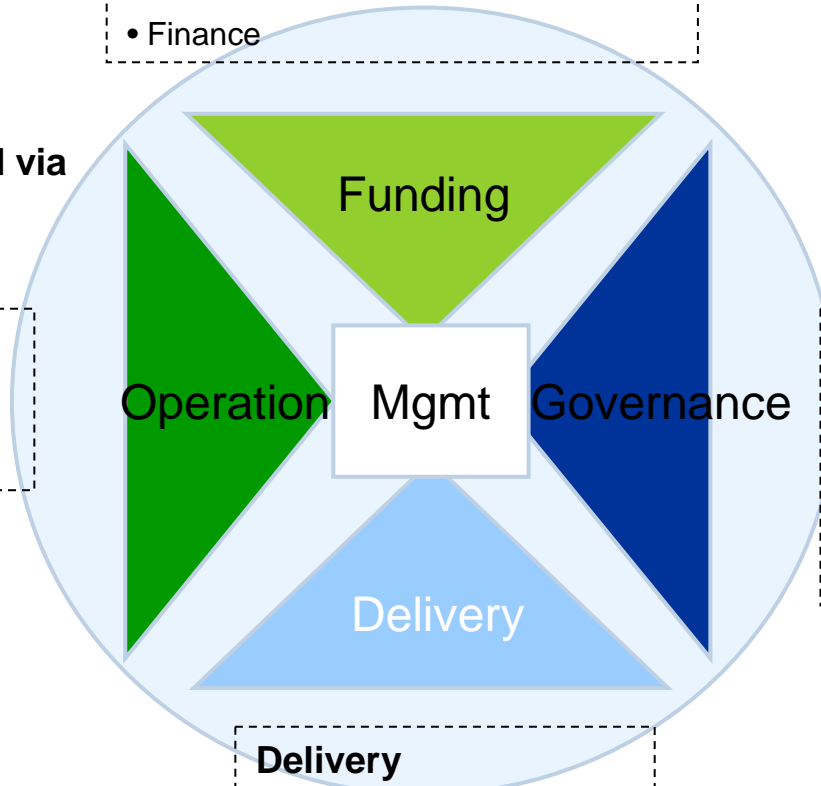
The implementation steps – started 2007:



ICC – Integration Competence Center

a global function enabled via
 an virtual organization

- Operation**
- IOC department
 - Service Management



- Funding and Communication**
- Communication Plan
 - Contact information
 - What and when Integration solutions
 - Finance

- Governance**
- Integration rules
 - Financing models
 - Target
 - Roadmaps

- Delivery**
- Plans
 - Integration projects
 - Maintenance org
 - Resources
 - Dev, test Environments

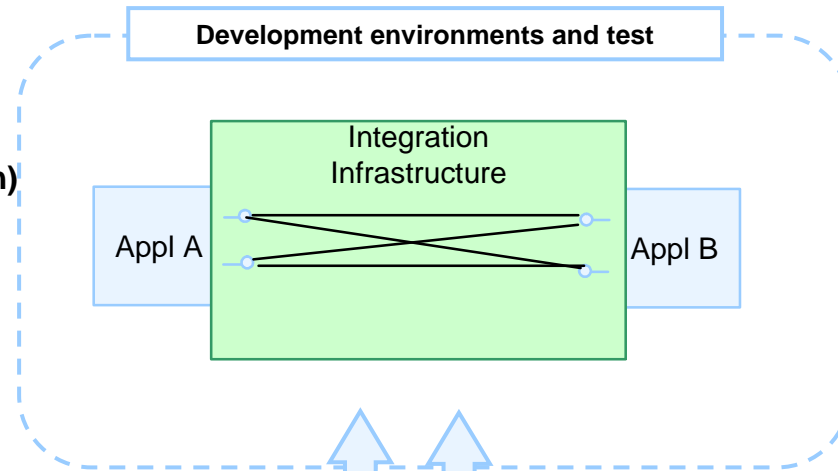


New financial model for Integration operation cost

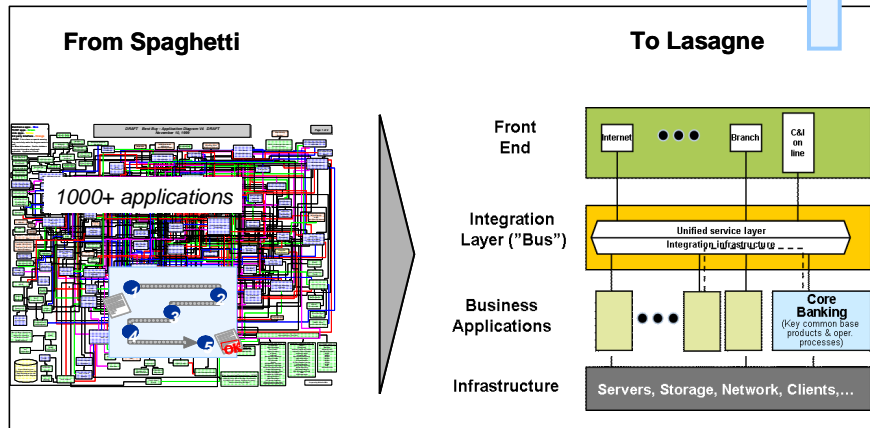
Common funding model for Development & Test and Integration solutions

“What and why?”

These areas (Dev, test and Integration) are common for all and not dedicated for one specific application



drivers



Development streamlining and Operational excellence

One function one solution

Common funding model for Development & Test and Integration solutions

“How?”

