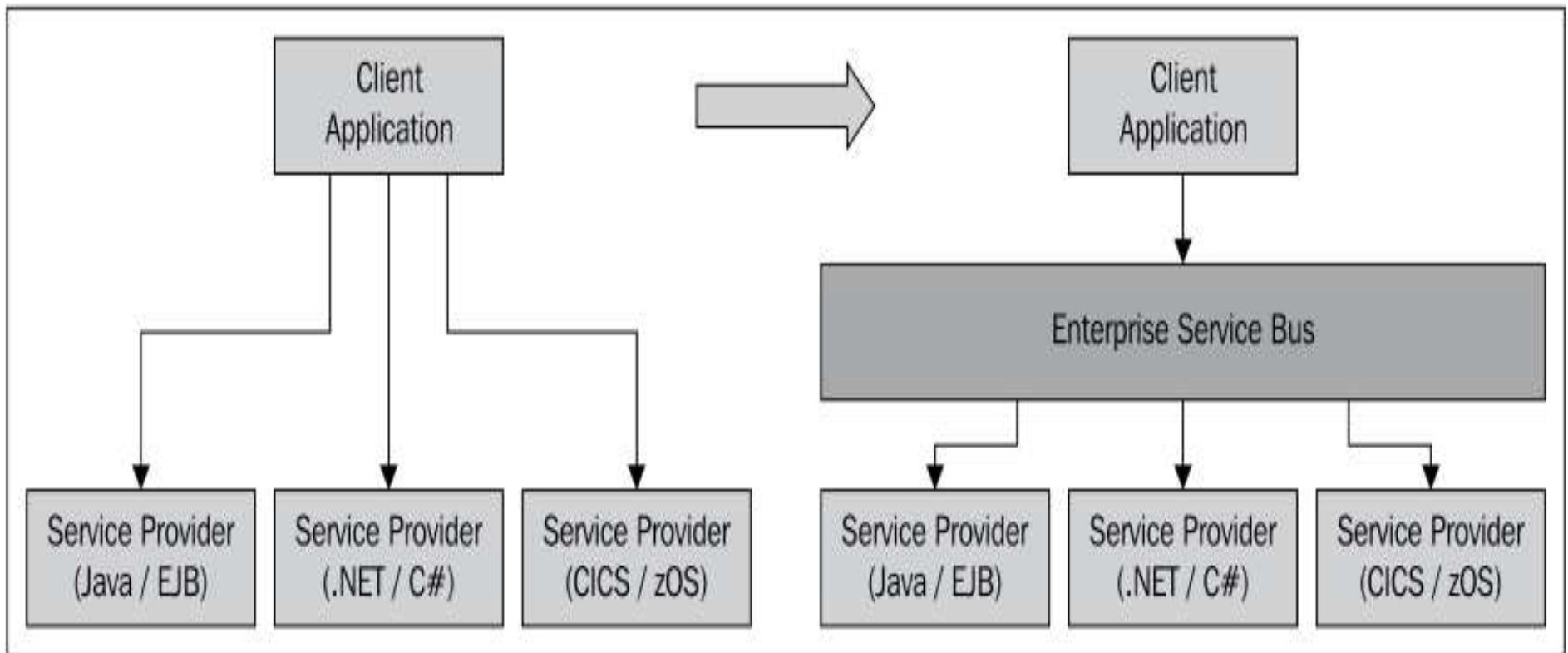


Getting started with Enterprise
Application Integration (EAI)
using Enterprise Service Bus (ESB)

Enterprise Service Bus (ESB)

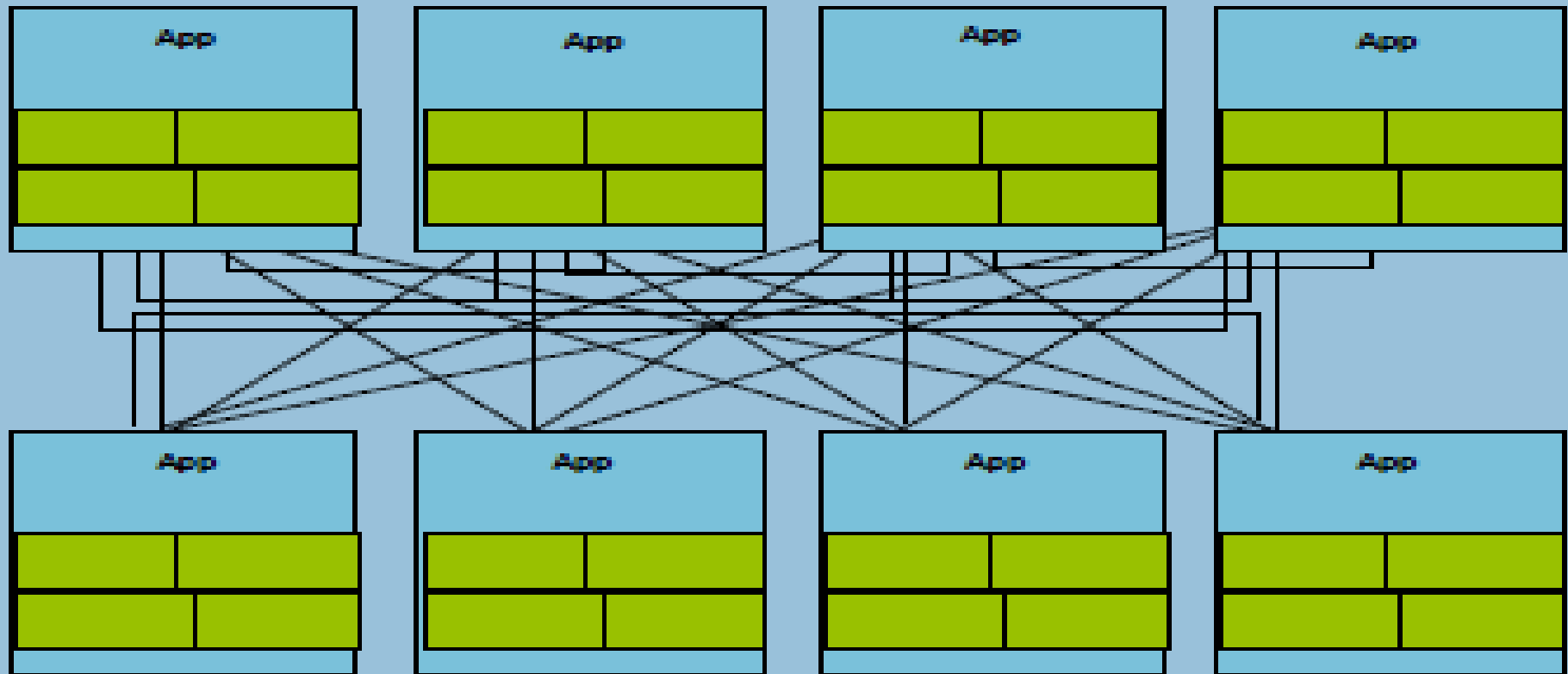
- Enterprise Service Bus (ESB) is an integration infrastructure used to implement an EAI. The role of the ESB is to decouple client applications from services.
- SOA is an architectural approach or set of principals where we expose and encapsulate “services” and it does not prescribe any technical mechanism or implementation on the other hand ESB is a technical implementation that aids in delivering a SOA.

Enterprise Service Bus (ESB)



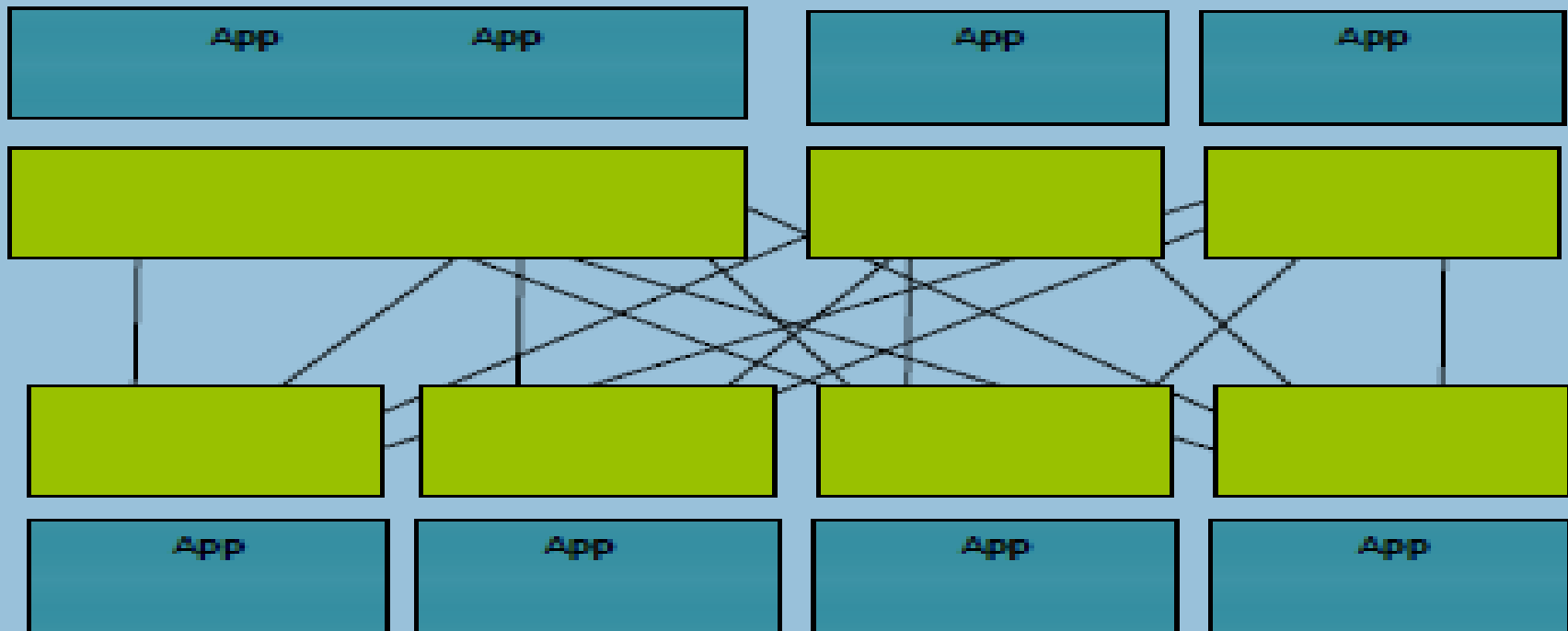
The ESB Story(1)

Integration any which way

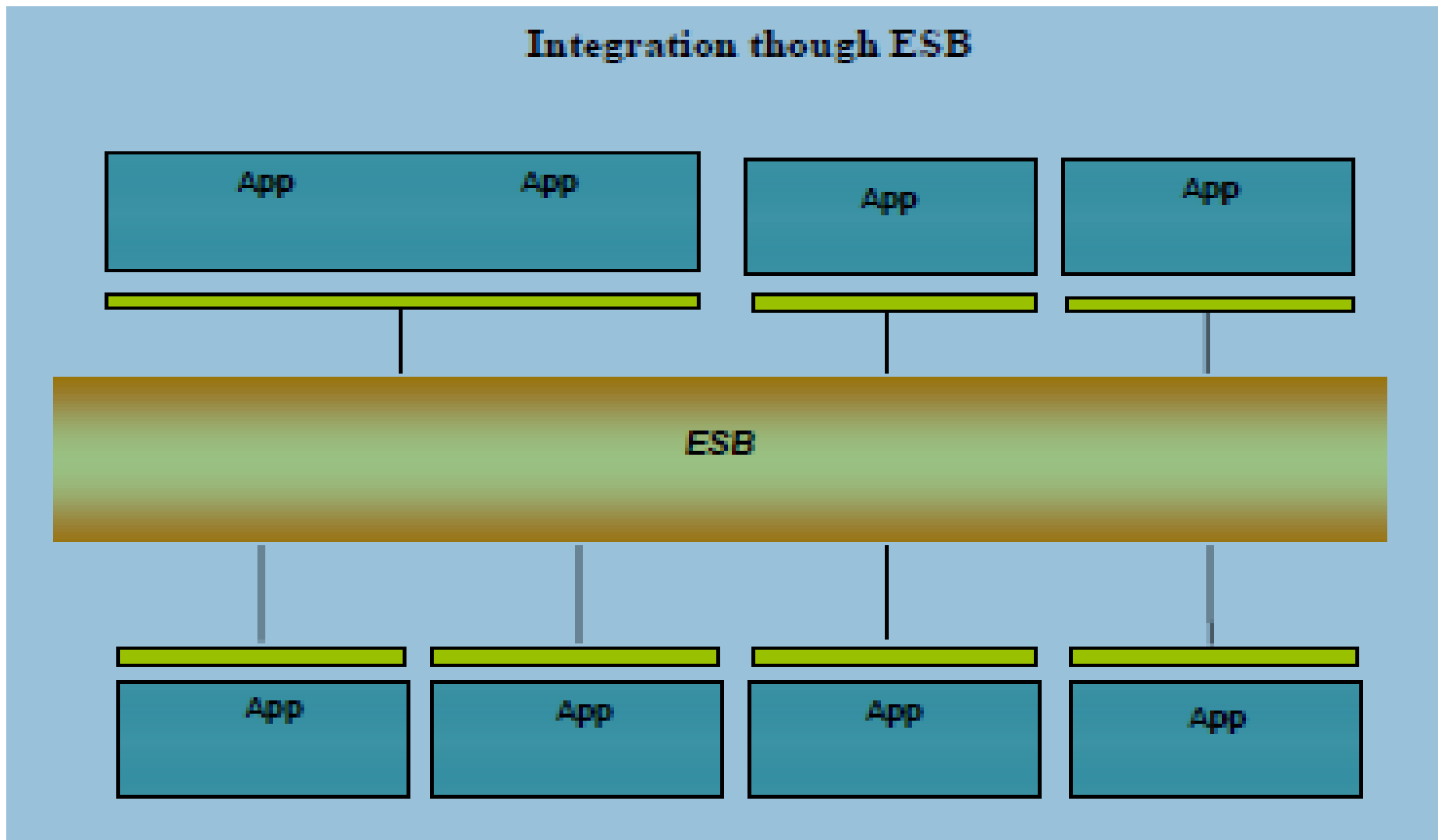


The ESB Story(2)

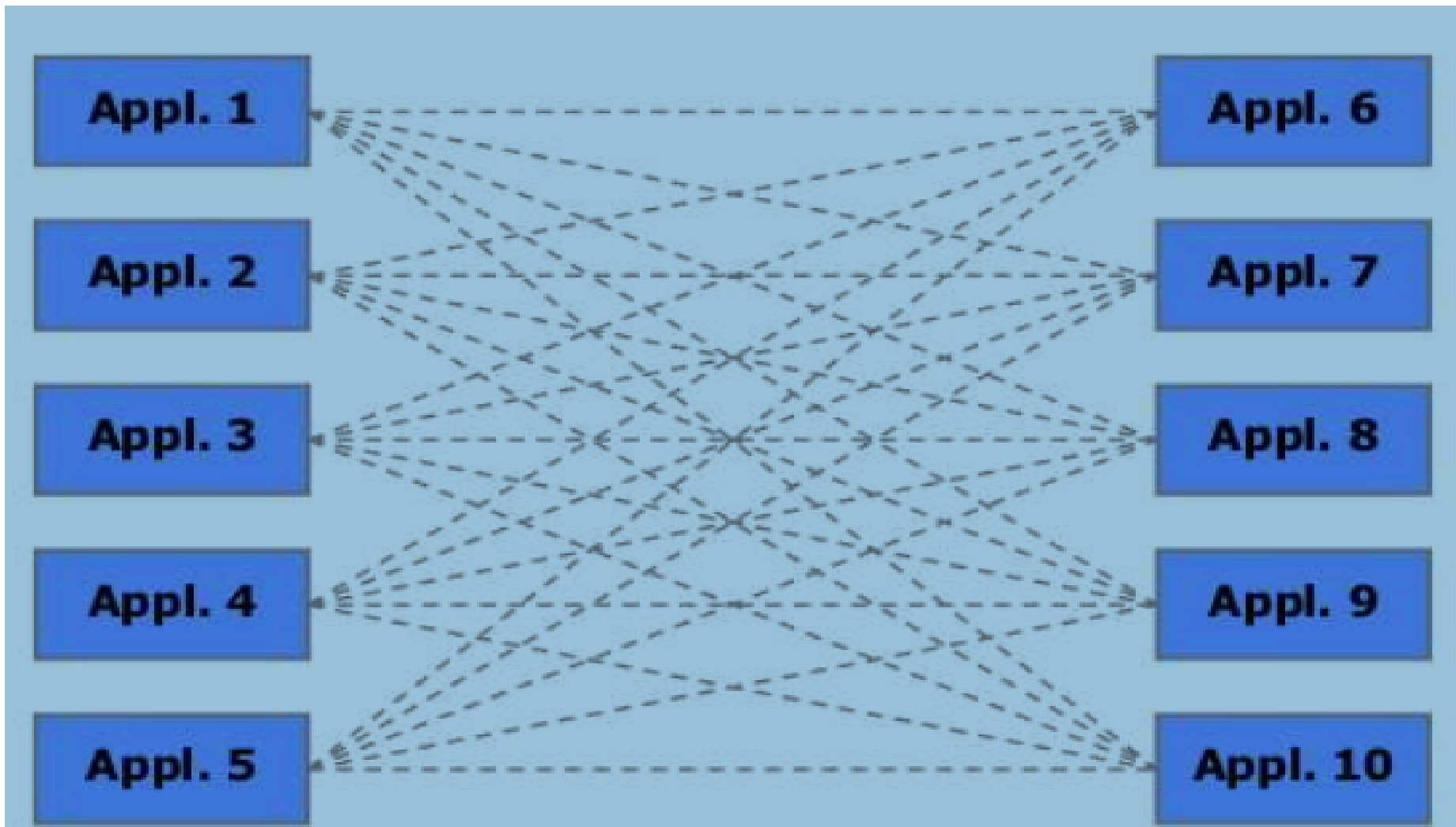
Integration through Interfaces



The ESB Story(3)



Traditional point-to-point integration leads to a high number of connections and integration problem

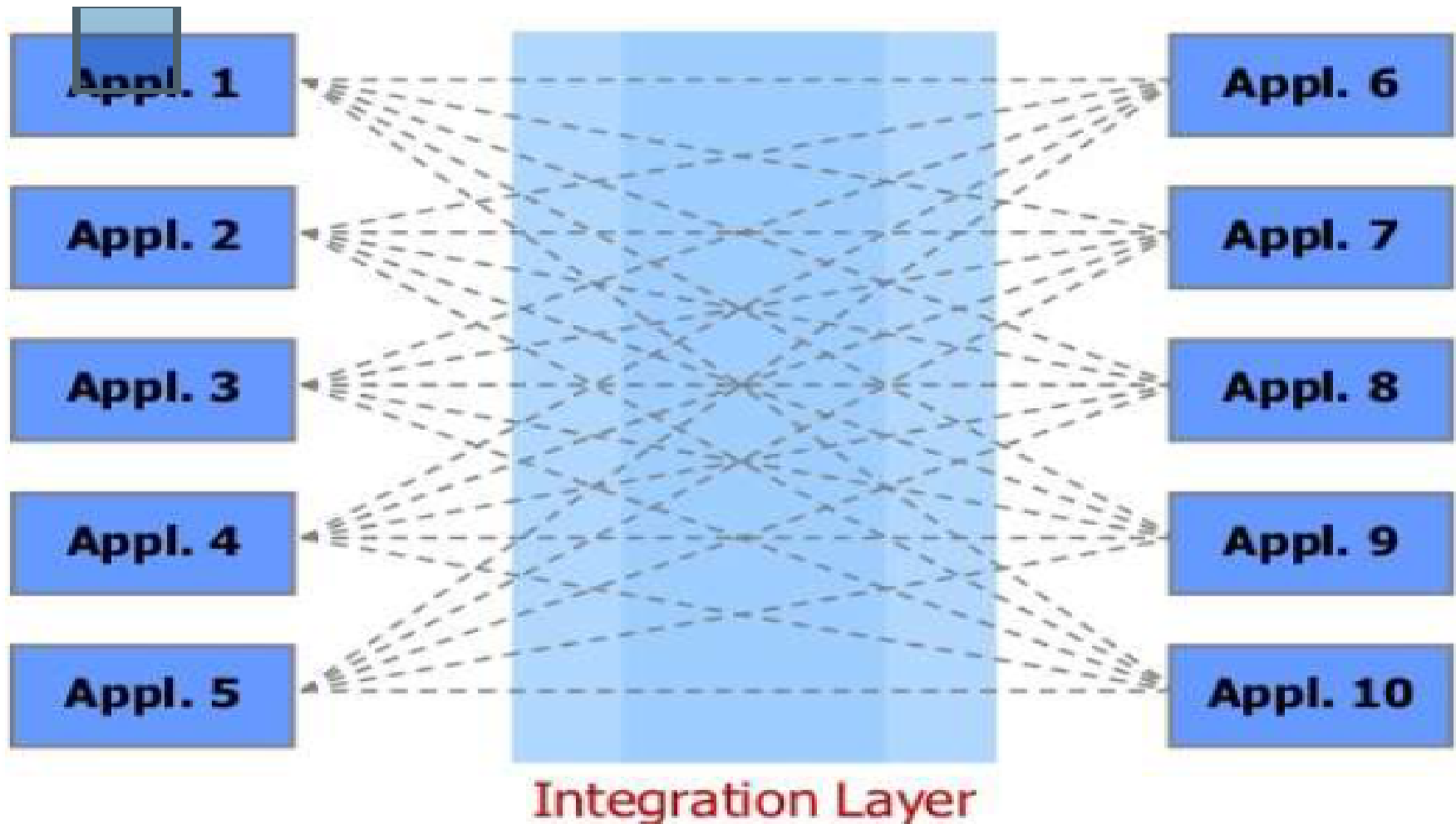


Traditional point-to-point integration leads to a high number of connections and integration problem

- Various or no tool= low productivity
- Highly complex architecture
- Complex, not scalable, high implementation and on-going effort.

10 Application=max 90
connection($n*n-1$)

Typical integration platform improve productivity

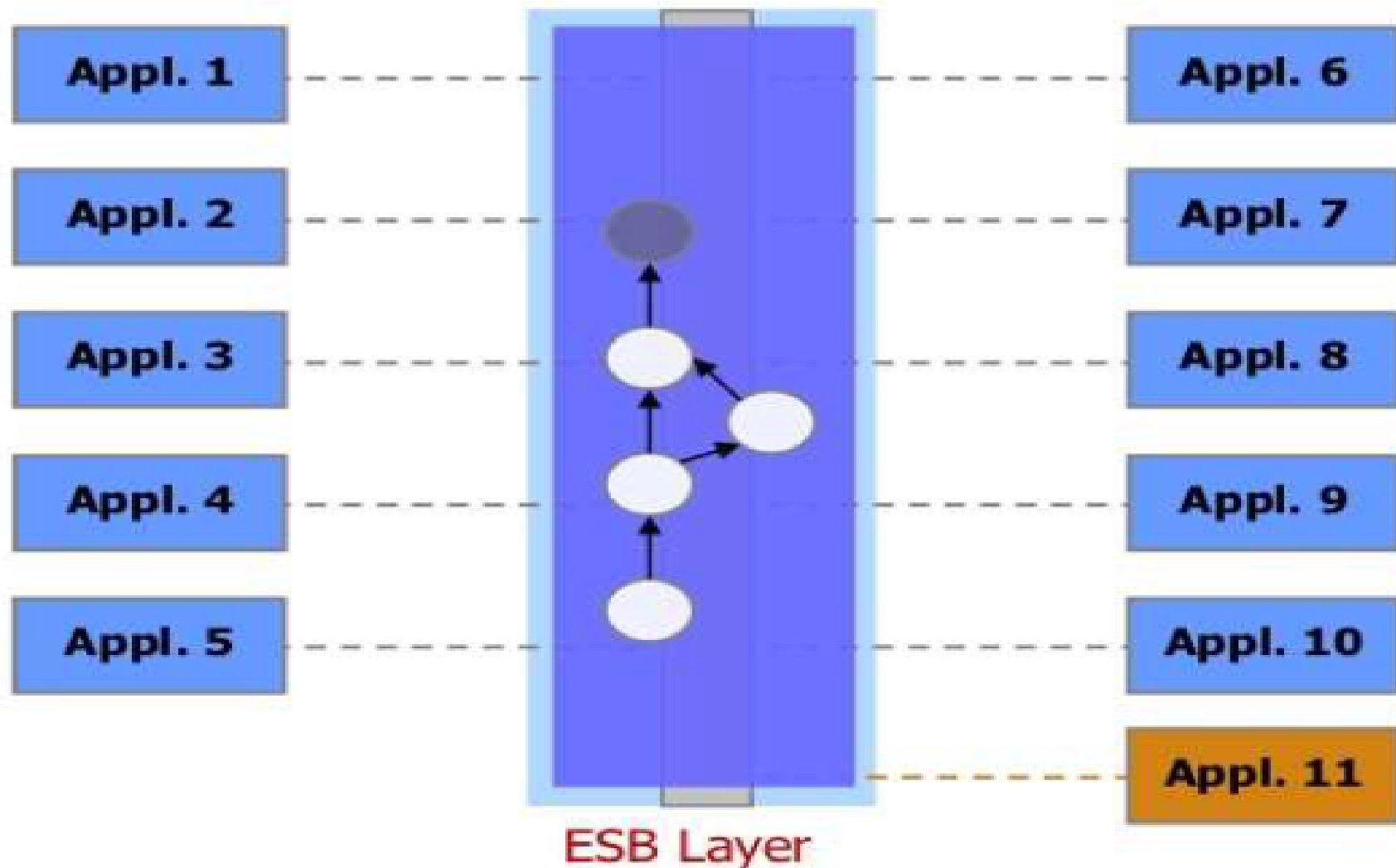


Typical integration platform improve productivity

- Improved productivity for building and maintaining integrations.
- Low re-use
- No solution to integration complexity challenge

10 Application=max 90
connection($n*n-1$)

Integration with an ESB reduces complexity and enable Flexibility



Integration with an ESB reduces complexity and enable Flexibility

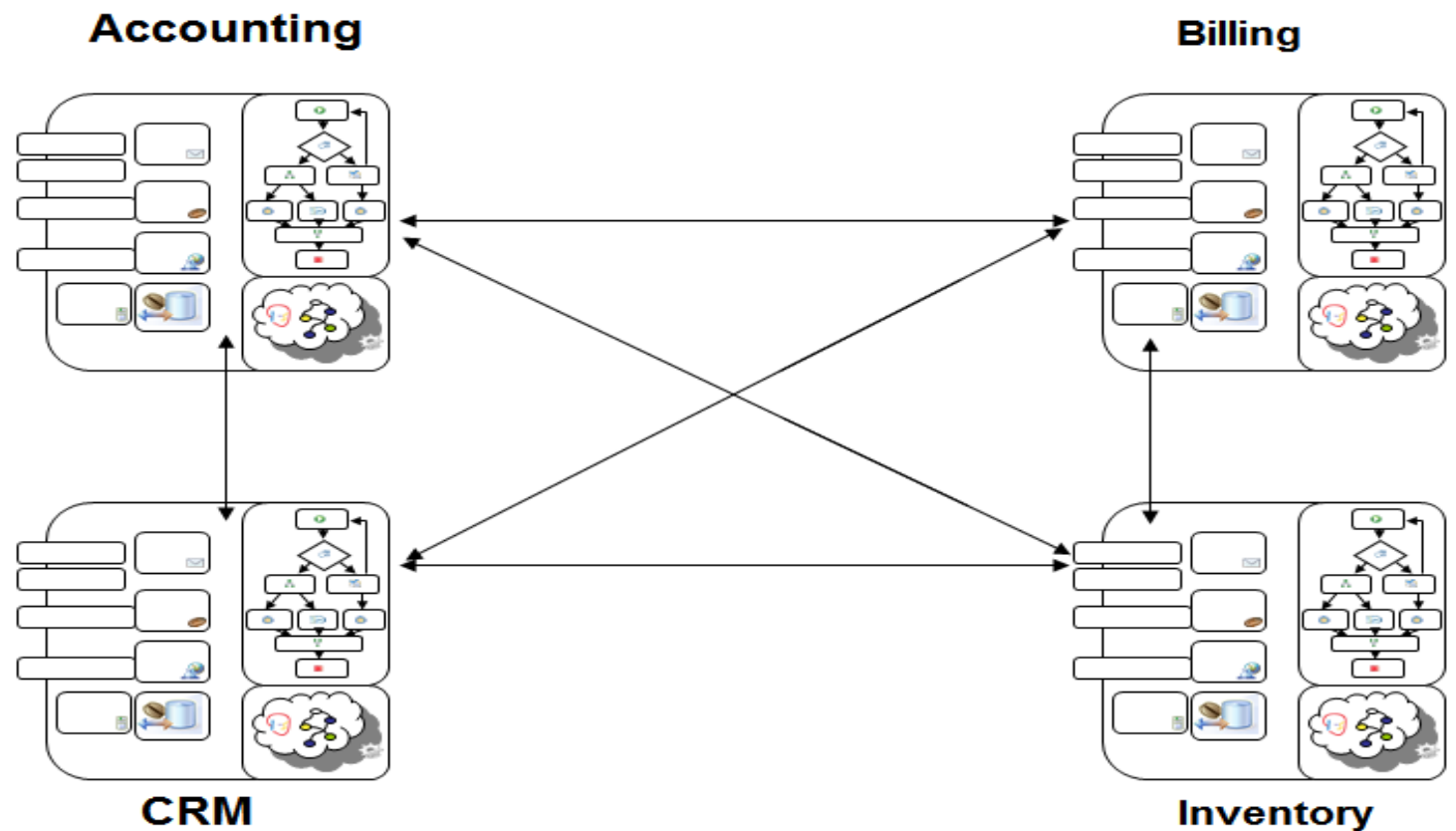
- Modular architecture
- Componentized solution with standard interface
- Integration complexity resolved
- High degree of transparency and flexibility of re-use

10 Application= 20 connection

11 Application=22 connection

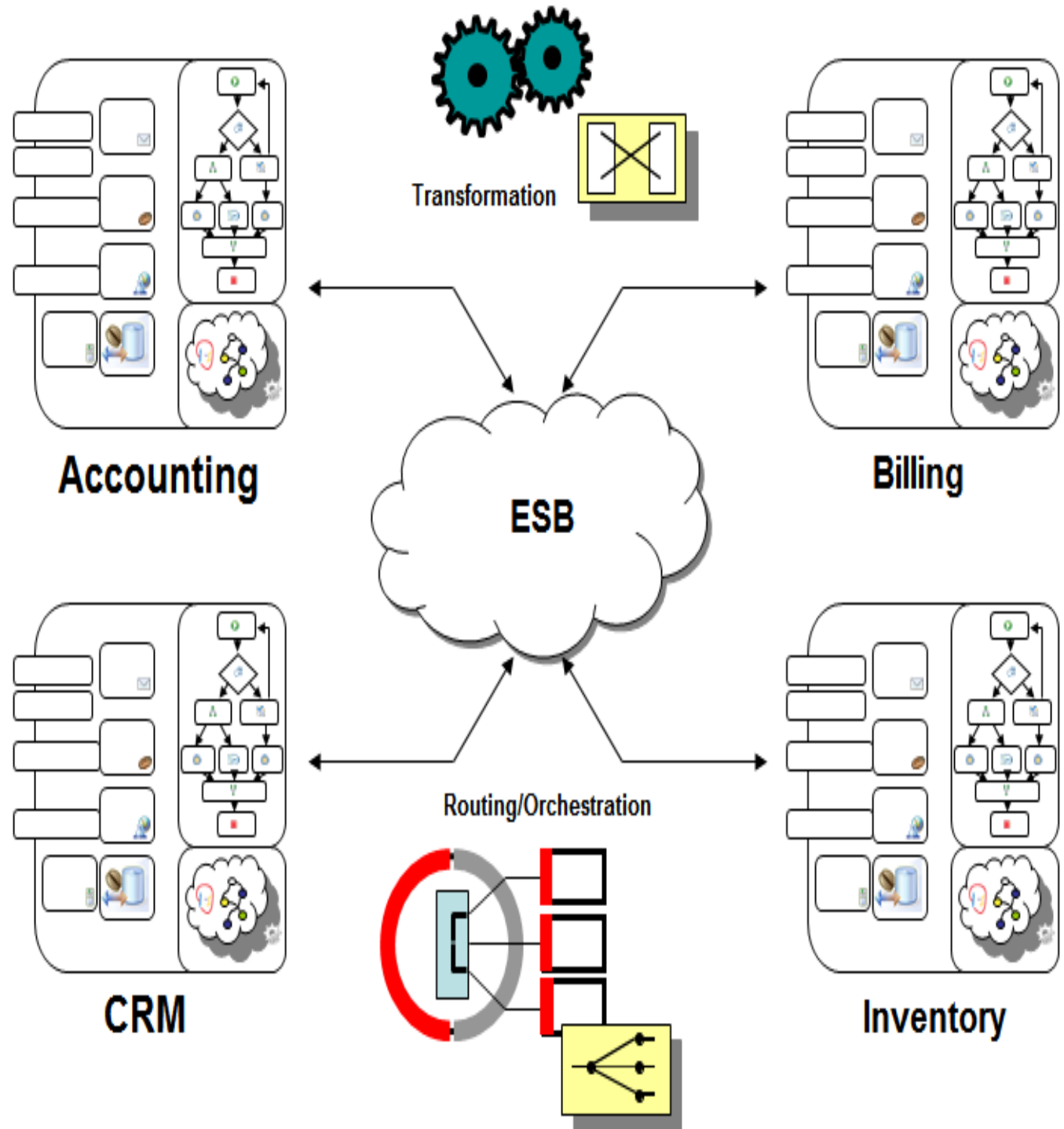
Without ESB

-) Scalability
-) Maintainability
-) Troubleshooting
-) Is nightmares

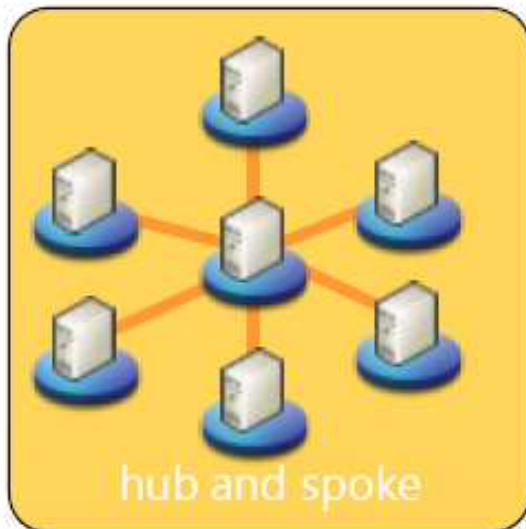


Using ESB

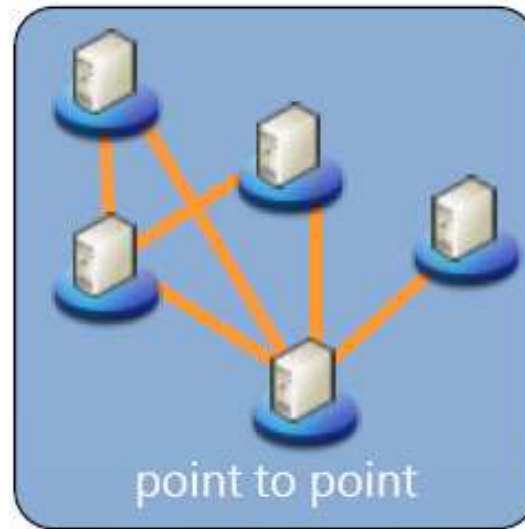
Easily
Scalability
Maintainability
Troubleshooting



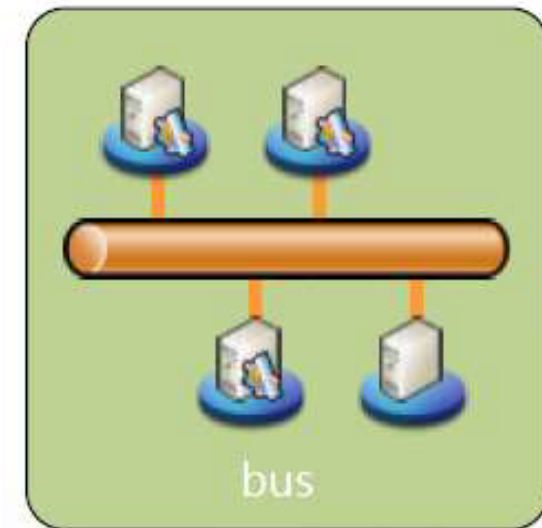
Distributed Communications Approach



"too centralized"



"too decentralized"



"just right"