

The Rules of SOA

A Road to a Successful SOA Implementation

Jeff Genender

Principal



How to Win
Friends &
Influence
People

OVER 70
YEARS IN
PRINT!

THE ORIGINAL IS STILL THE BEST! THE *ONLY*
BOOK YOU NEED TO LEAD YOU TO SUCCESS

DALE
CARNEGIE

One Trick Pony



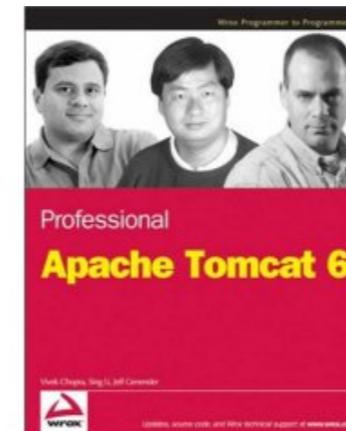
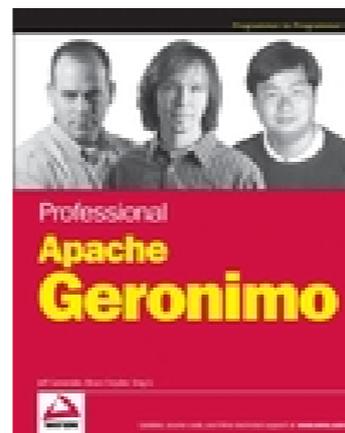
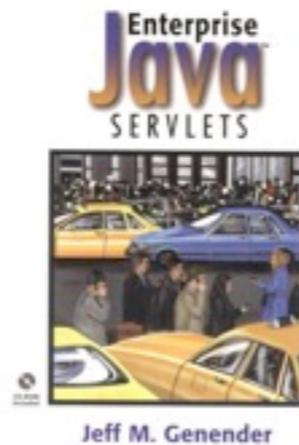
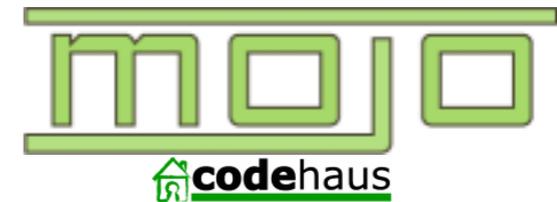
One Trick Pony - Jeff Genender



Apache CXF



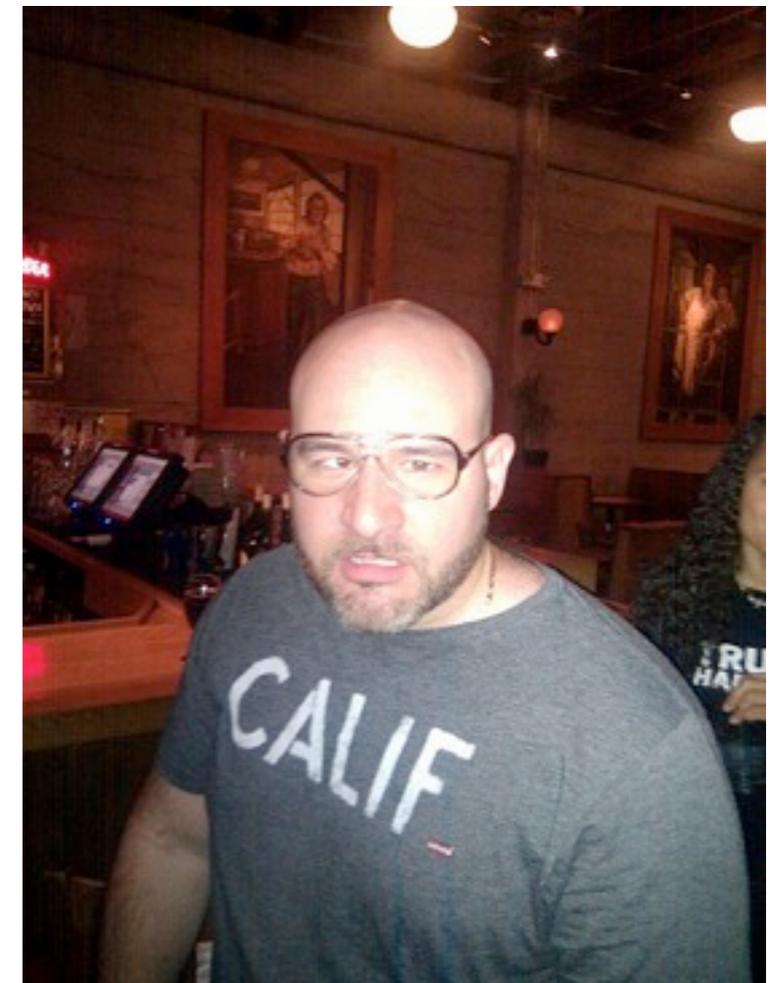
JSR 316 - Java EE 6



Token Marketing Blurb - basementcoders.com



Twitter: @bcoders
<http://www.basementcoders.com>



Rules of Engagement

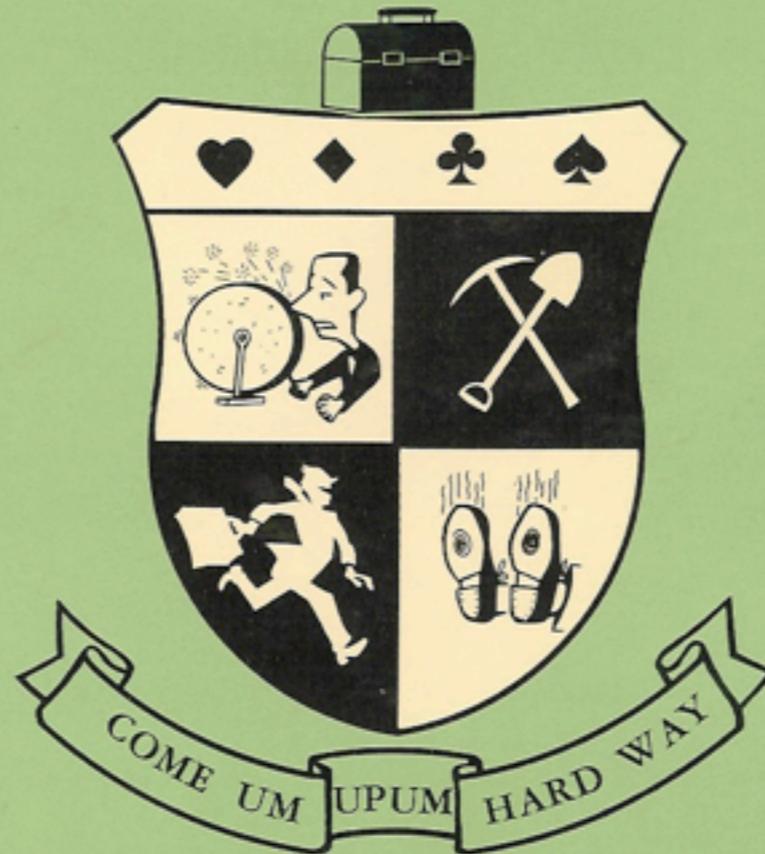




COME UM UPUM HARD WAY



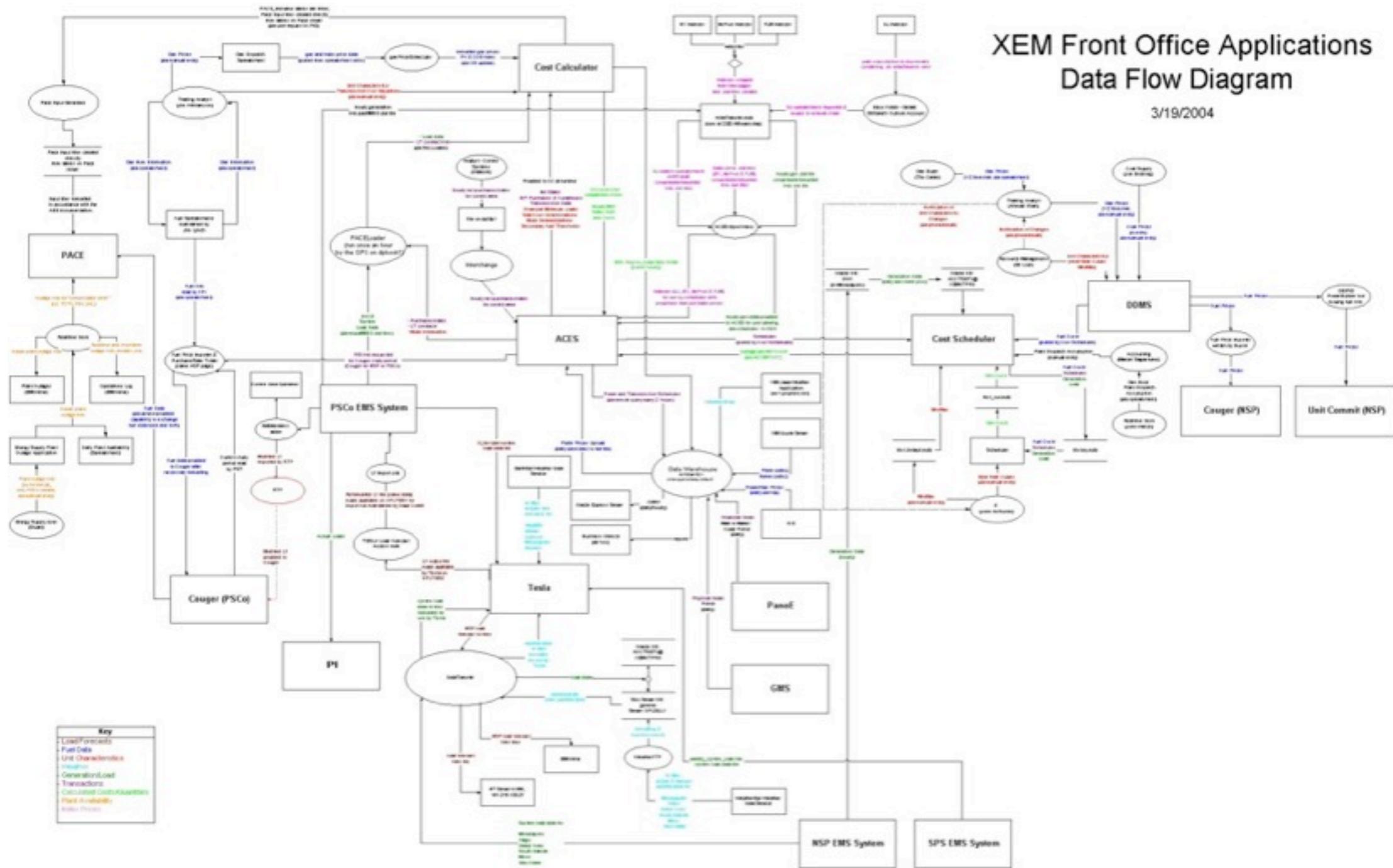
**UNIVERSITY
OF**



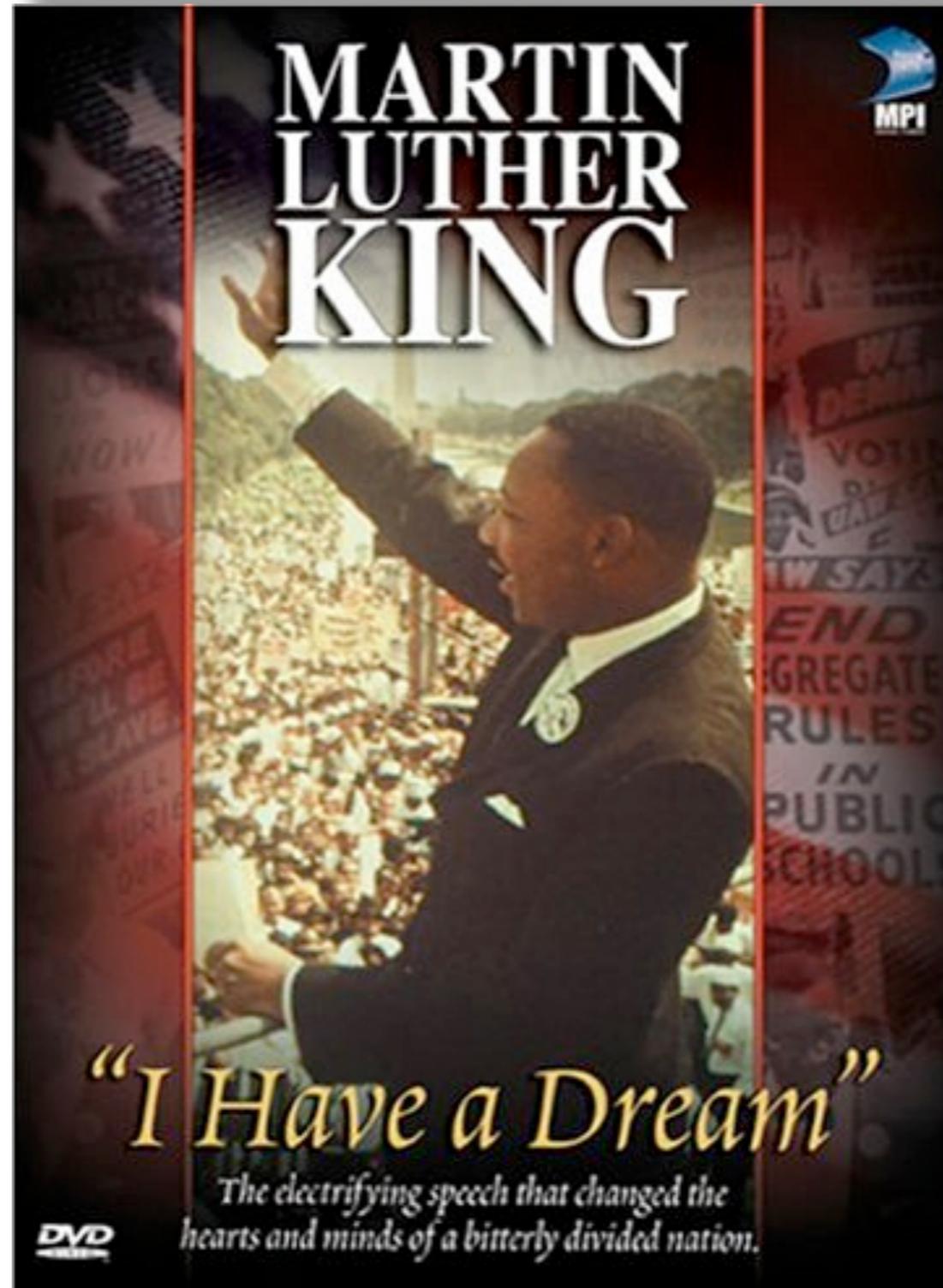
HARD KNOX



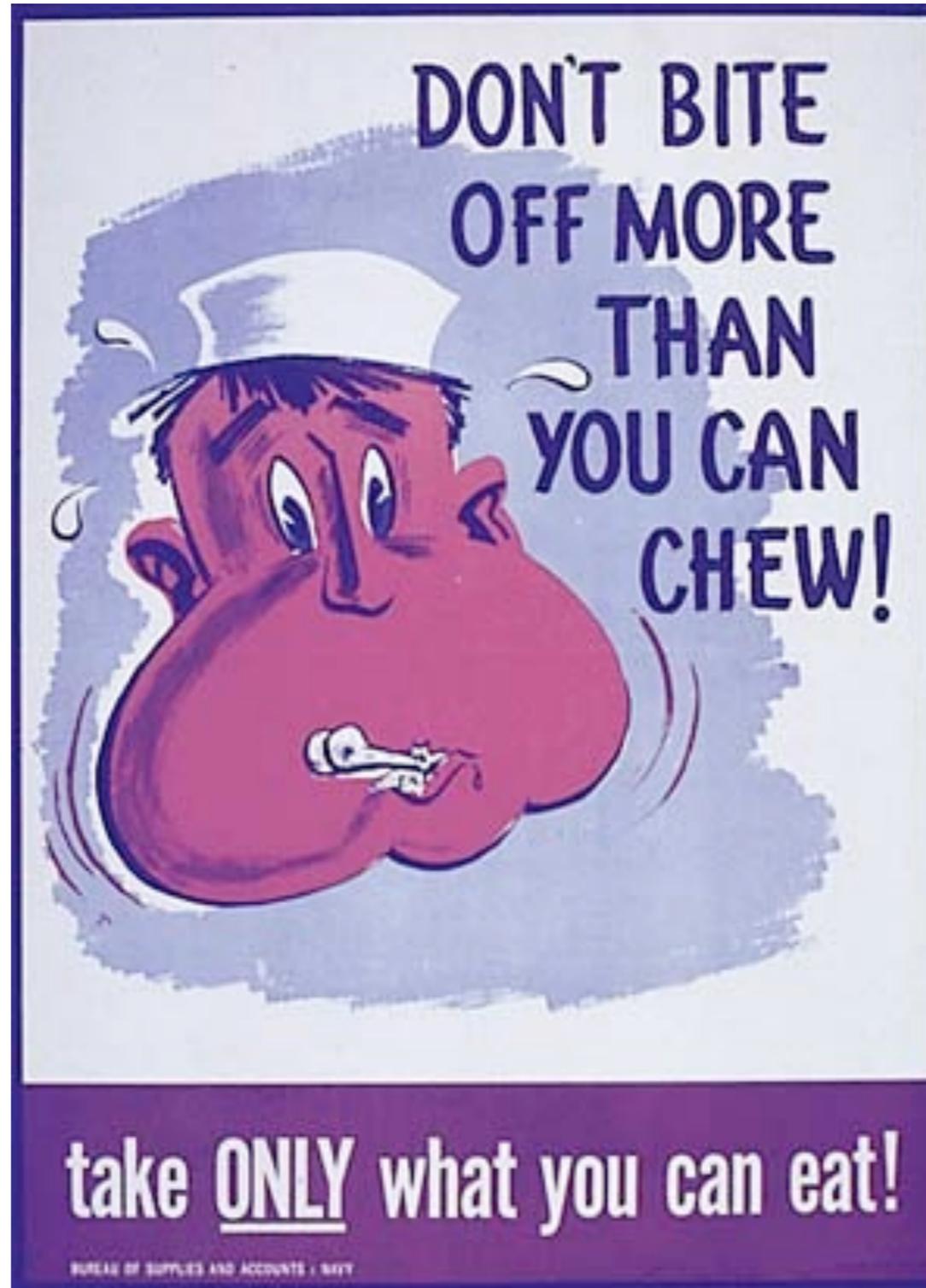
Client's Mess (My real 1 trick pony)



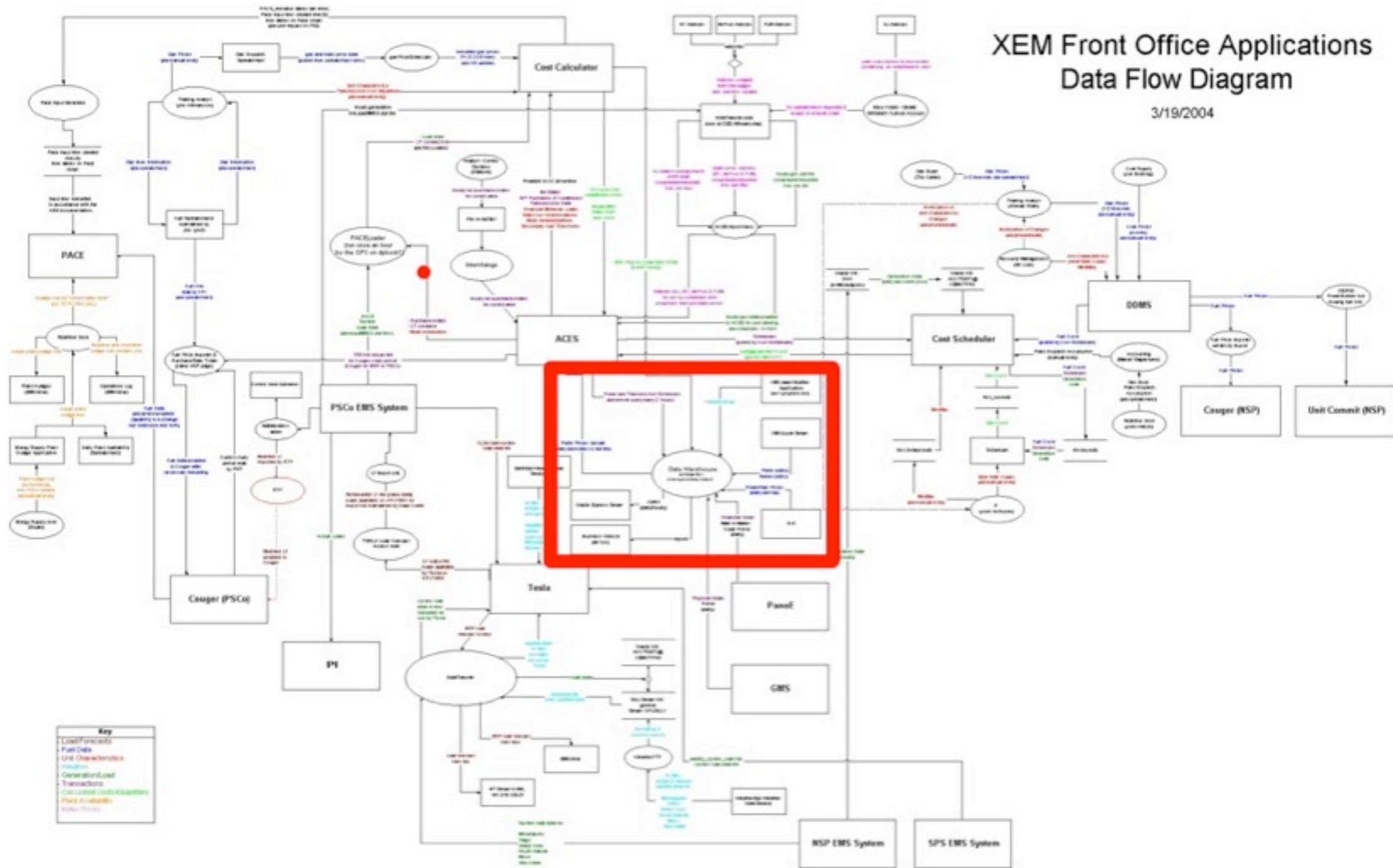
Where a thing is Big?



Tip #1 - Start Small



What we did...



And if you don't...



Who are the As6 guys in a



And if you don't...



What's this? Where are you going? Weapons, govern them



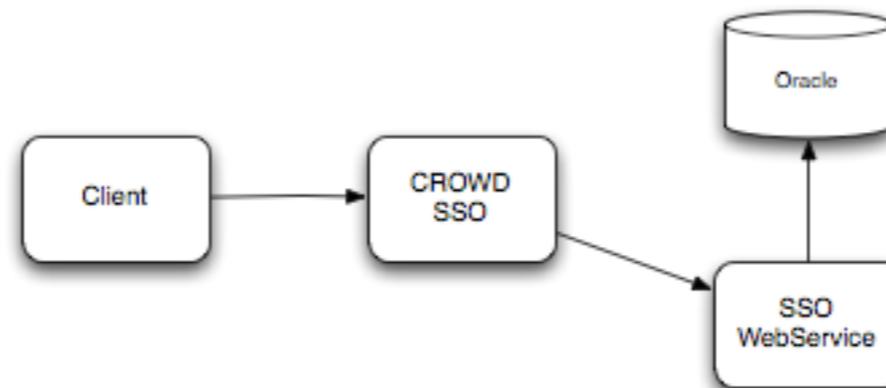
A. Don't use a sledge hammer for a nail



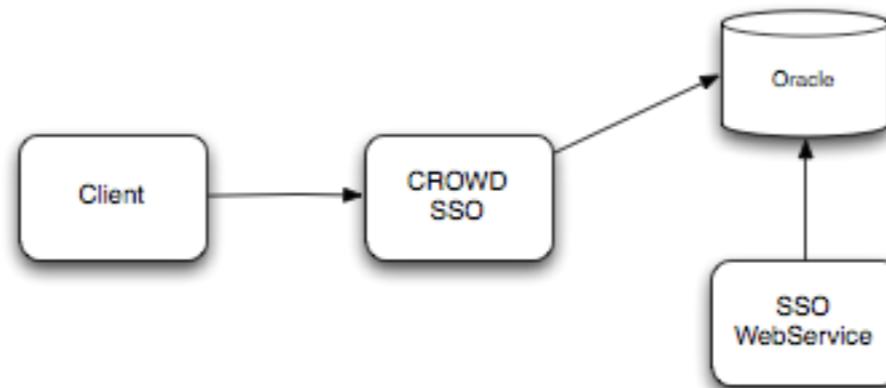
A. Don't use a sledge hammer for a nail

- Locking into one technology does not fix all problems
 - Use WS where you want but don't force everyone...

Bad

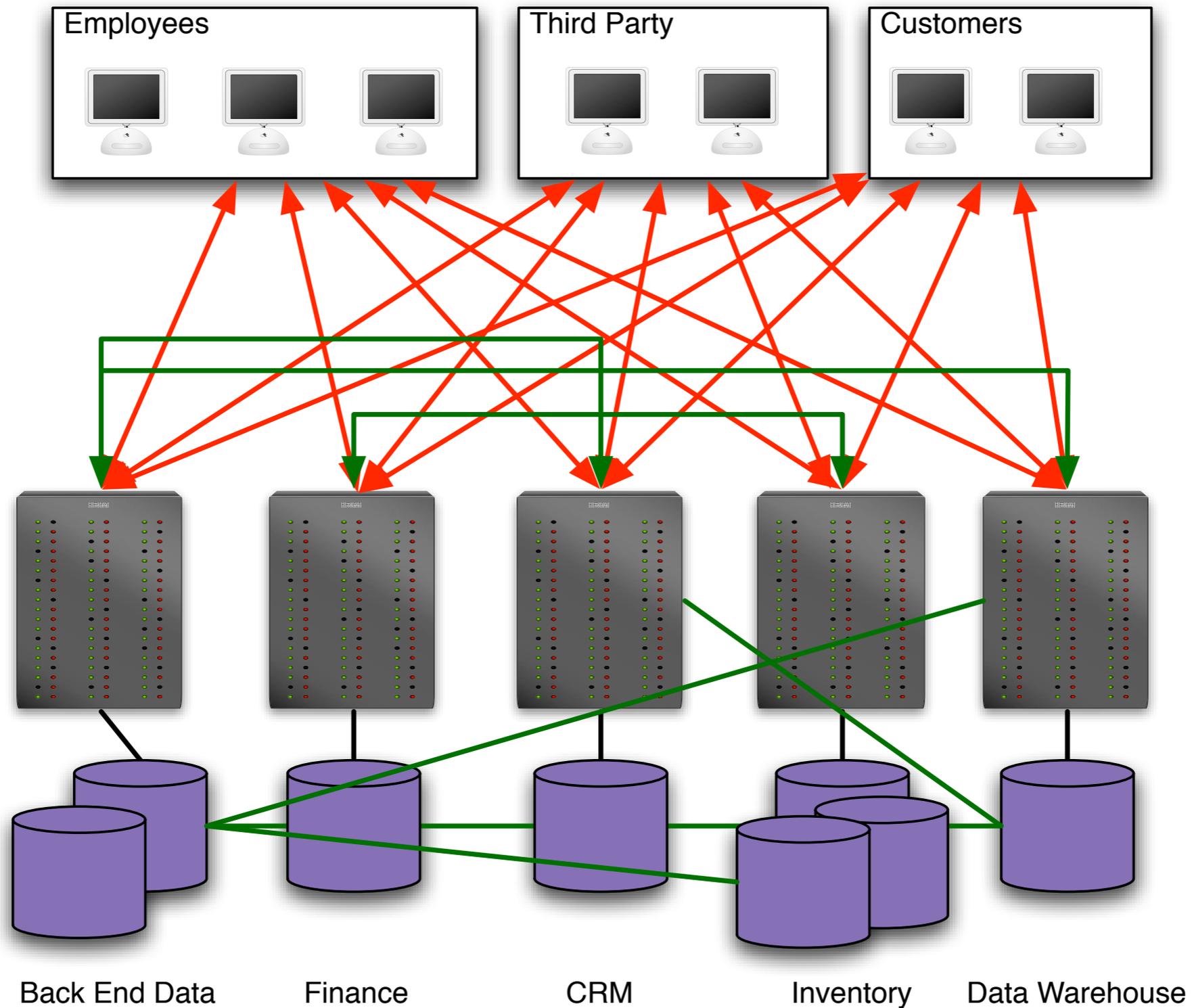


Good

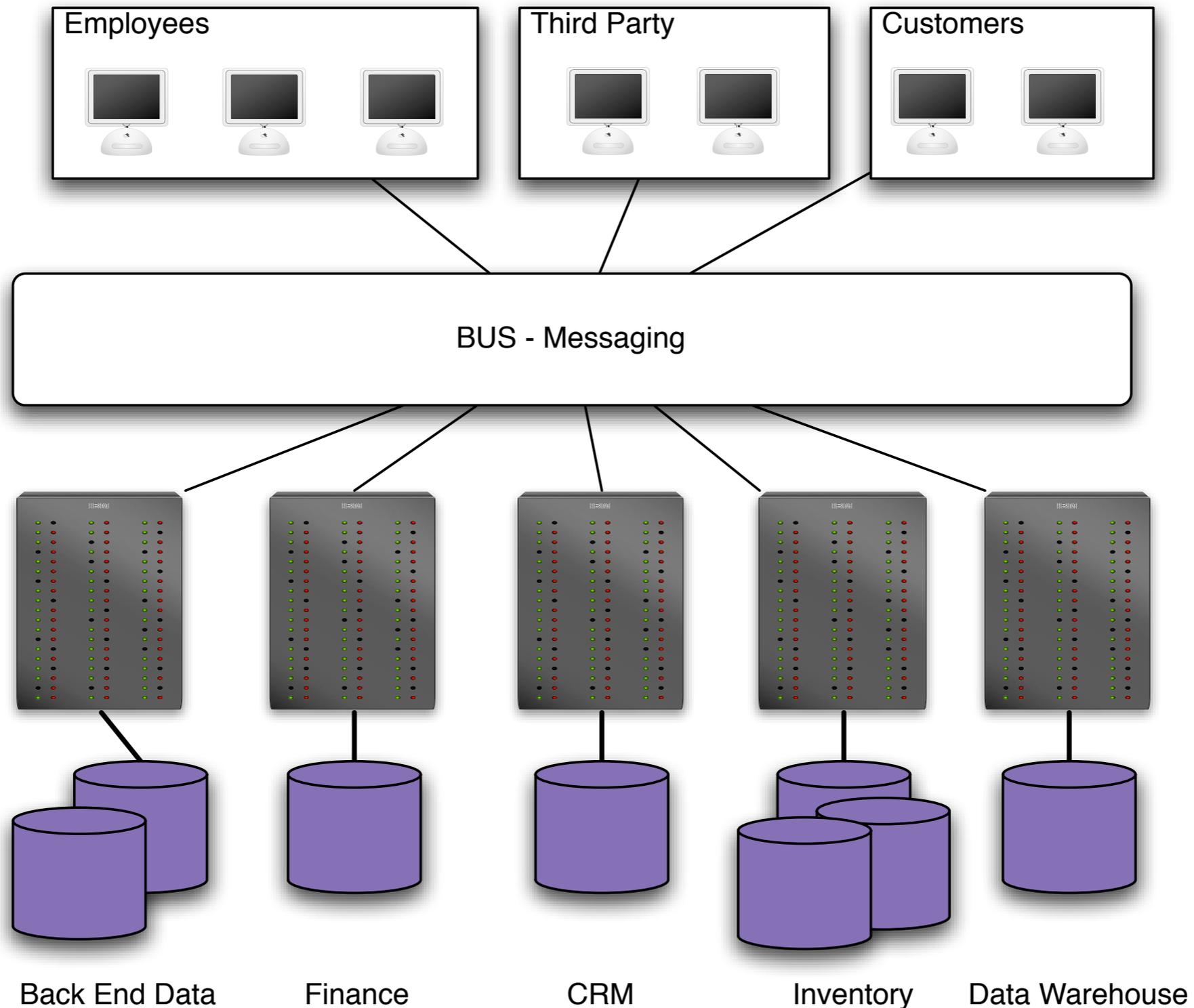


- Misnomer WS != SOA. WS is a component of SOA.

B. Consider an Enterprise Service Bus (ESB)



B. Consider an Enterprise Service Bus (ESB) - Cont



B. Consider an Enterprise Service Bus (ESB) - Cont

● Normalized Messaging

- Components speak with each other in one language

● Pluggable components

- Use any component or technology
- Much more flexible to get components talking to each other

● Message Oriented Middleware (MOM)

- Reliable messaging based on JMS

● Orchestration

- Workflow
- Transactionality
- Routing



C. Consider Open Source Platforms

- **Just as good as the commercial stuff**

- **ESBs/SOA Platforms**
 - **Apache ServiceMix**
 - **Apache Camel**
 - **Apache Tuscany**
 - **Apache Synapse**
 - **OpenESB**
 - **Mule**
 - **FuseSource FUSE**

What is this? Why is it so important?

<http://www.soapatterns.org>

<http://www.eaipatterns.com>

<http://refcardz.dzone.com/refcardz/soa-patterns>



Tip #4 - Know thy basic SOA Patterns

Aggregator

ServiceBus

Dynamic Routing

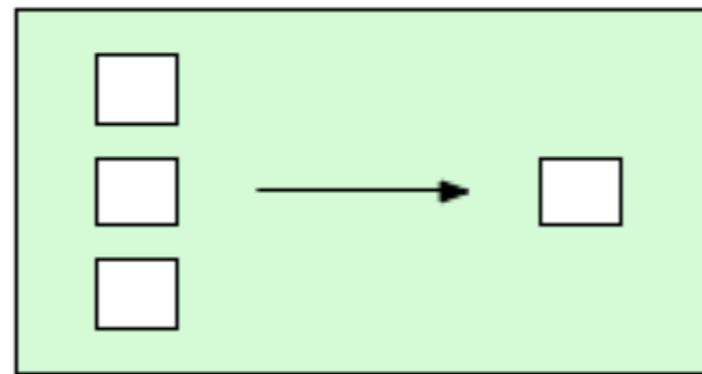
Event Driven Consumer

Pipe/Filter

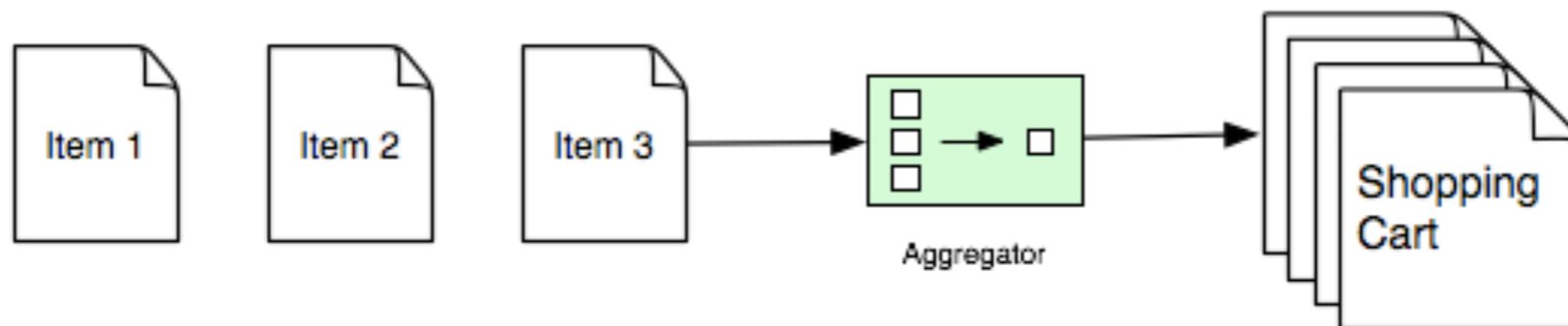
Router

Translator/Transformer

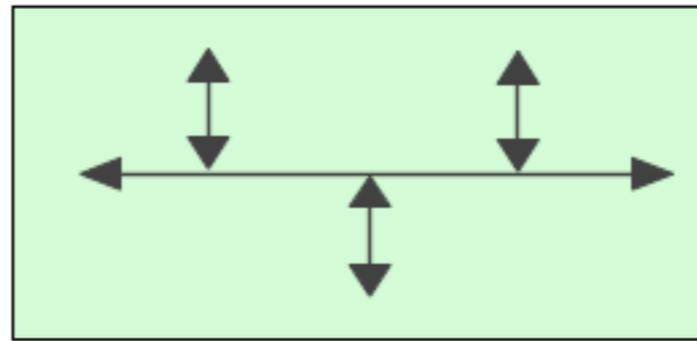
Aggregator



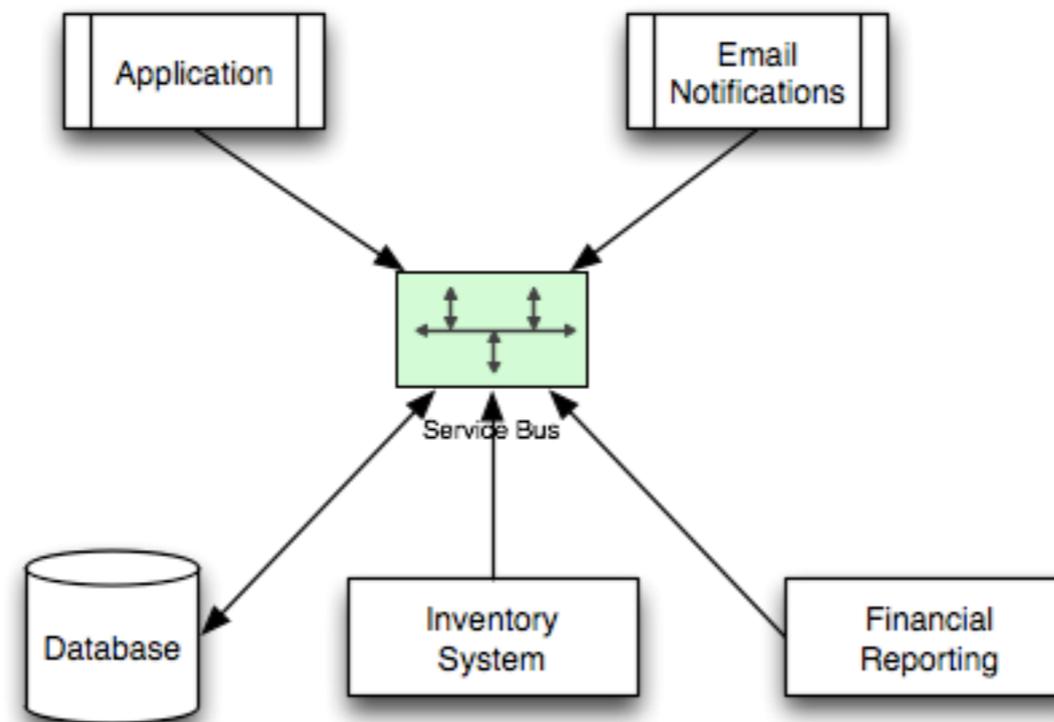
Aggregator



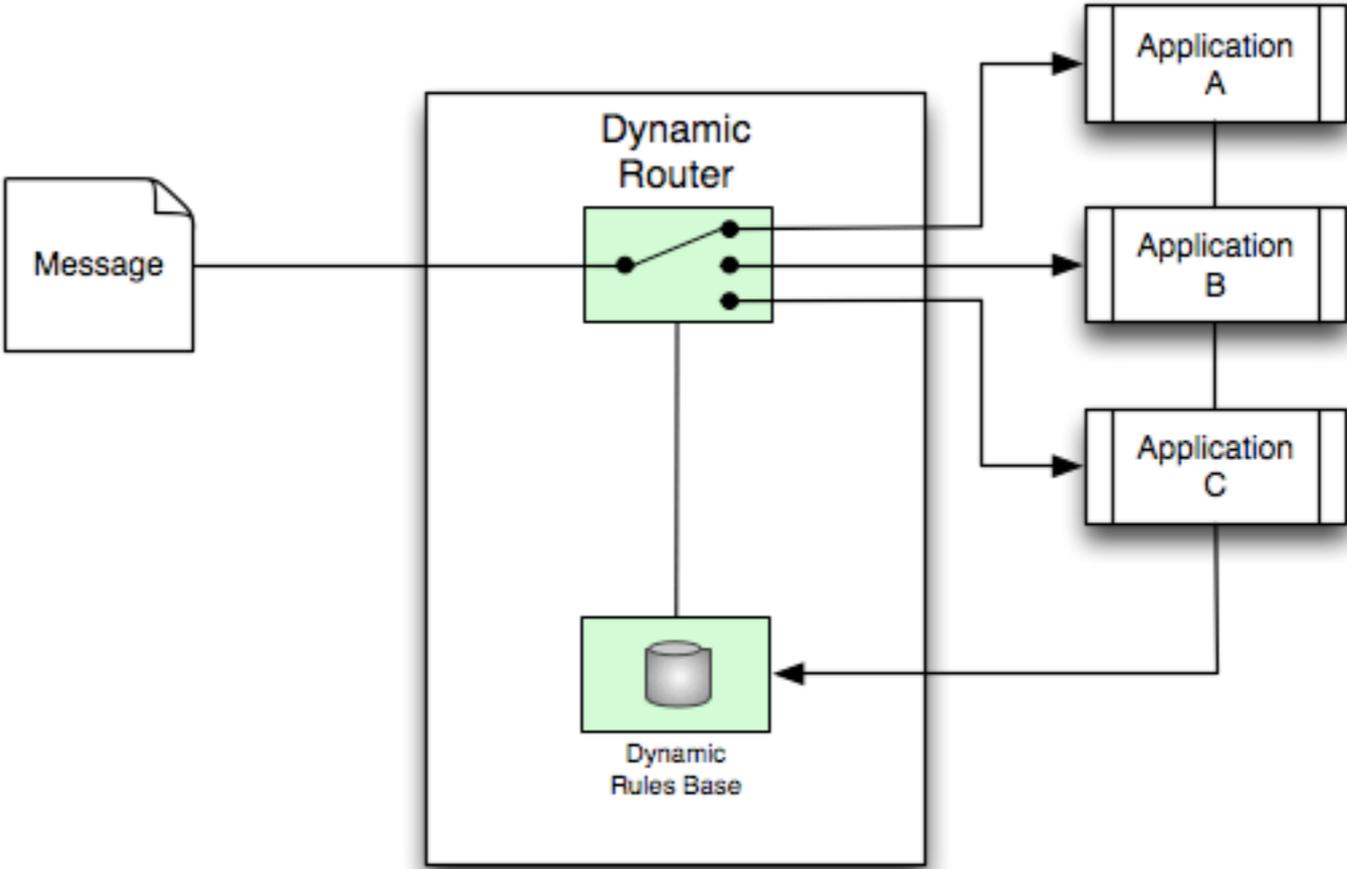
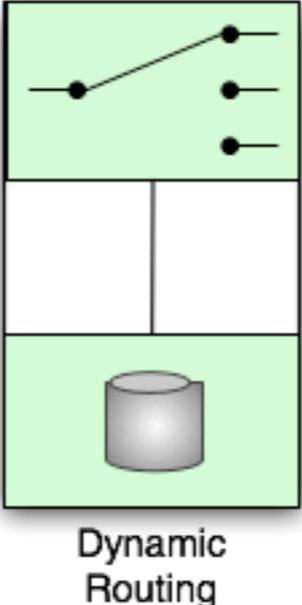
ServiceBus/Messaging Pattern



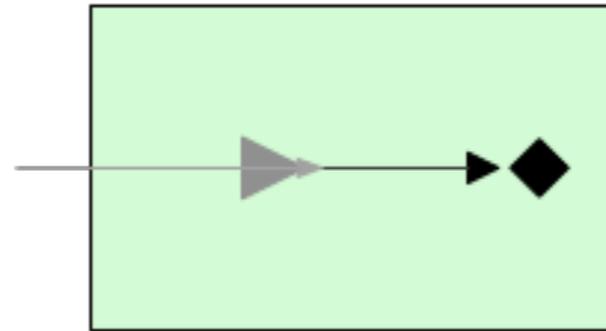
Service Bus



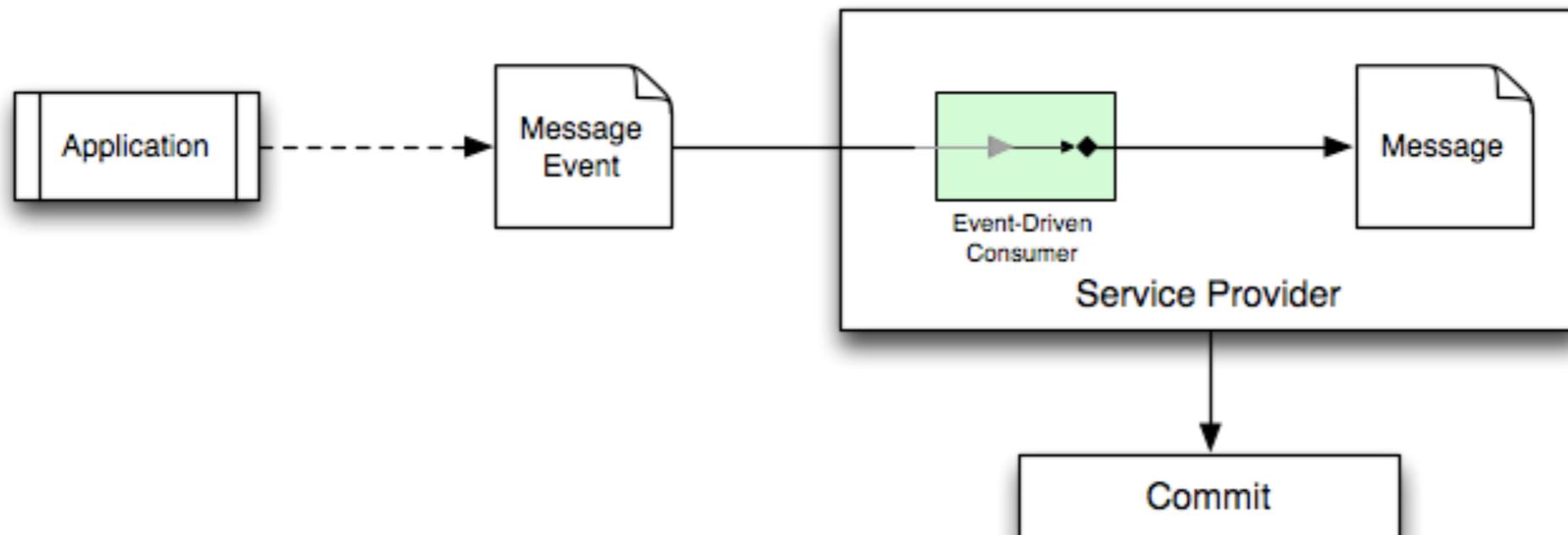
Dynamic Routing



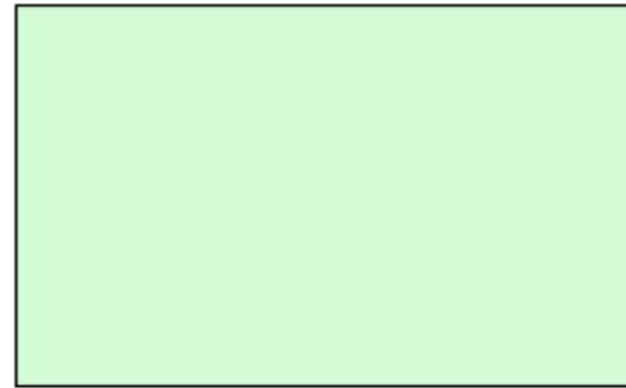
Event Driven Consumer



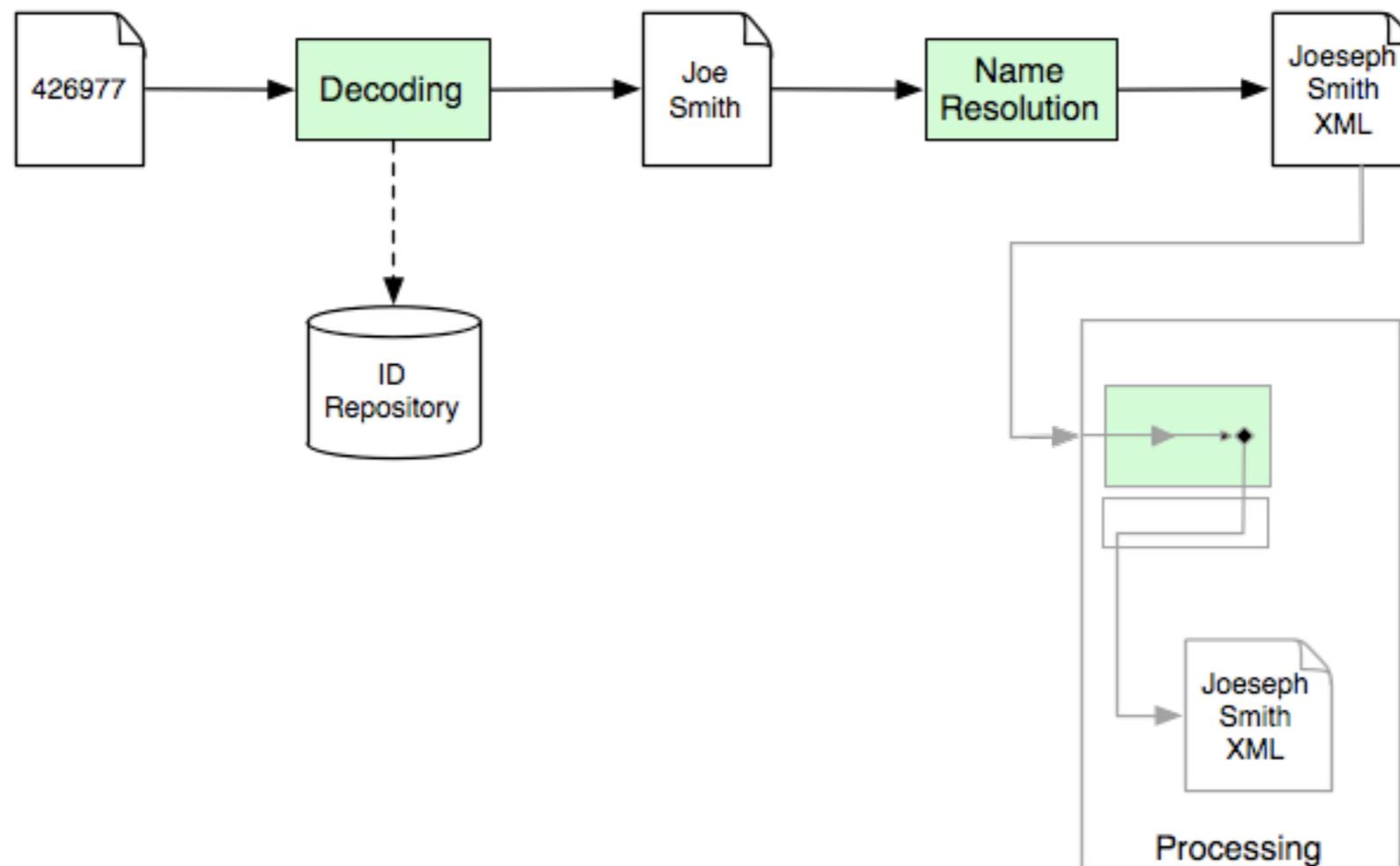
Event-Driven Consumer



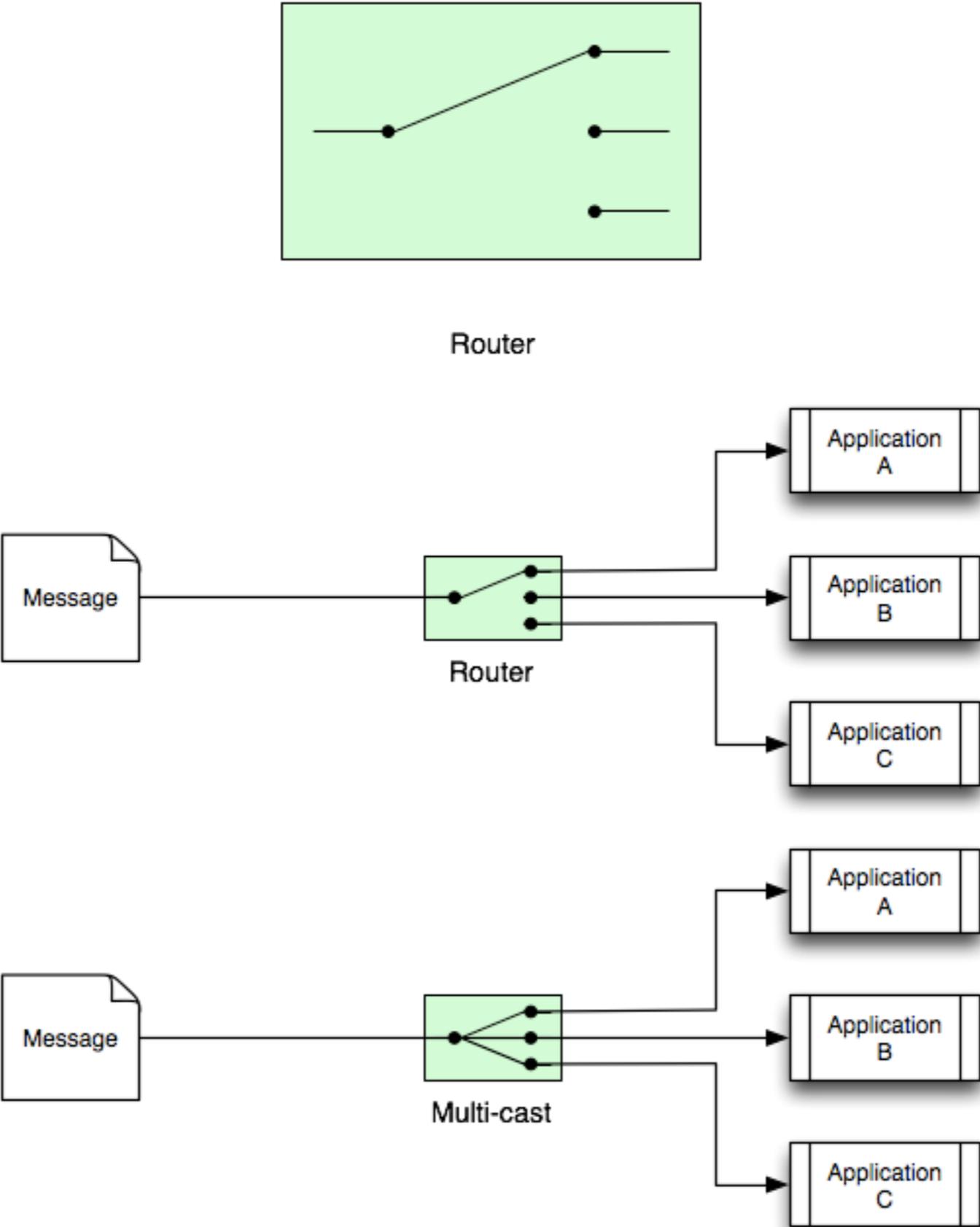
Pipe/Filter



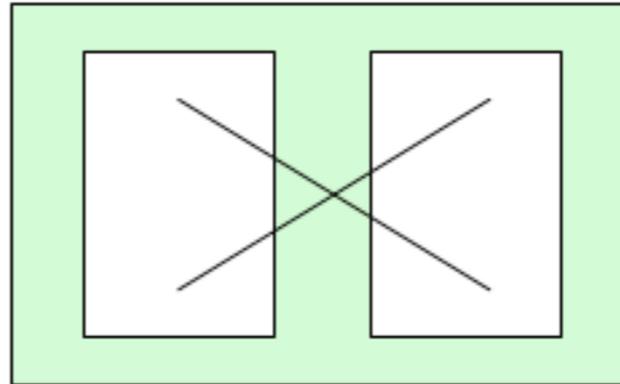
Filter



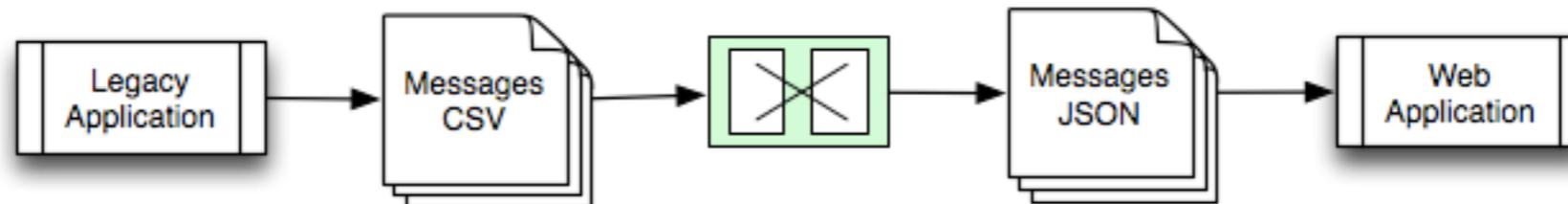
Router



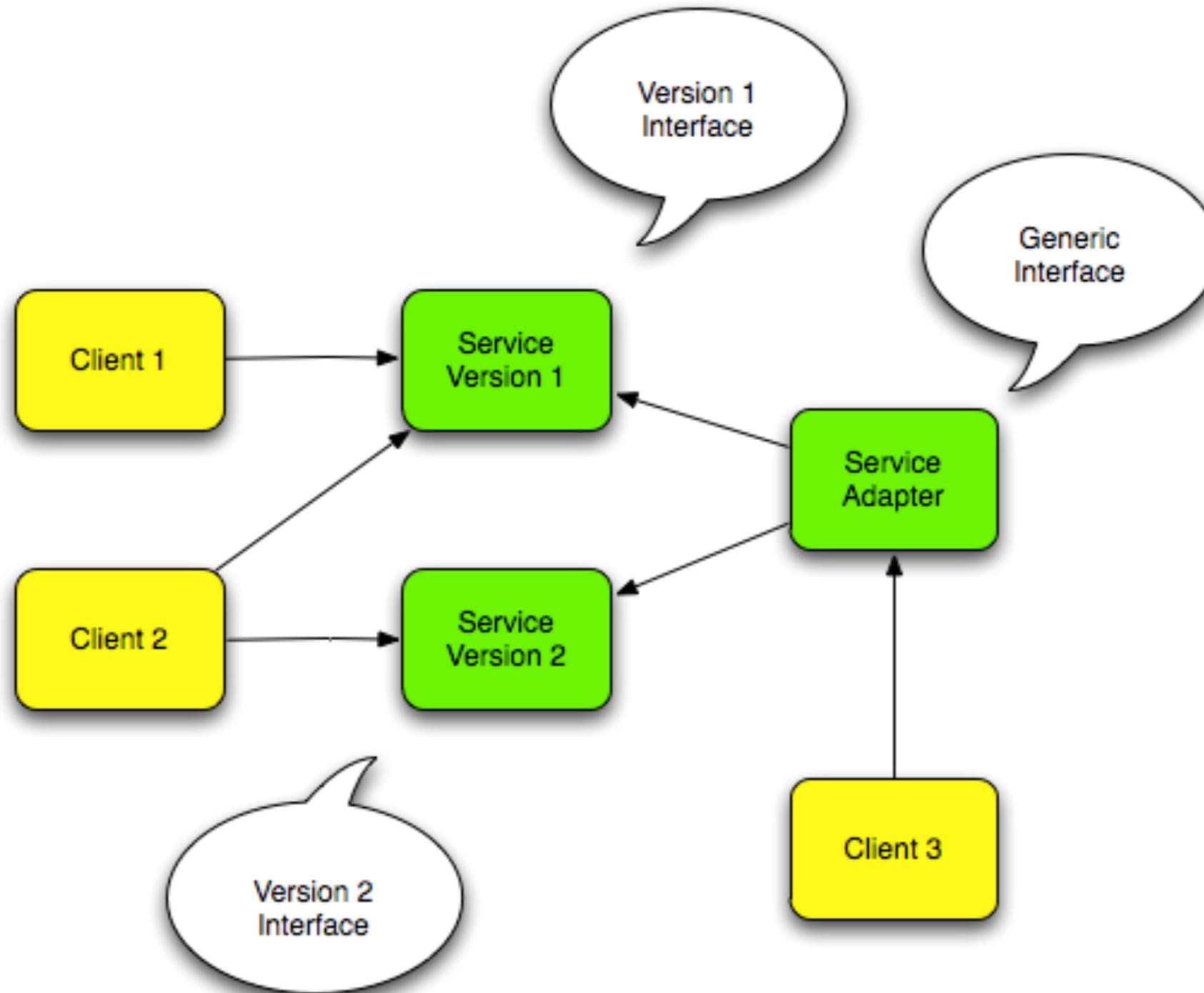
Translator or Transformer



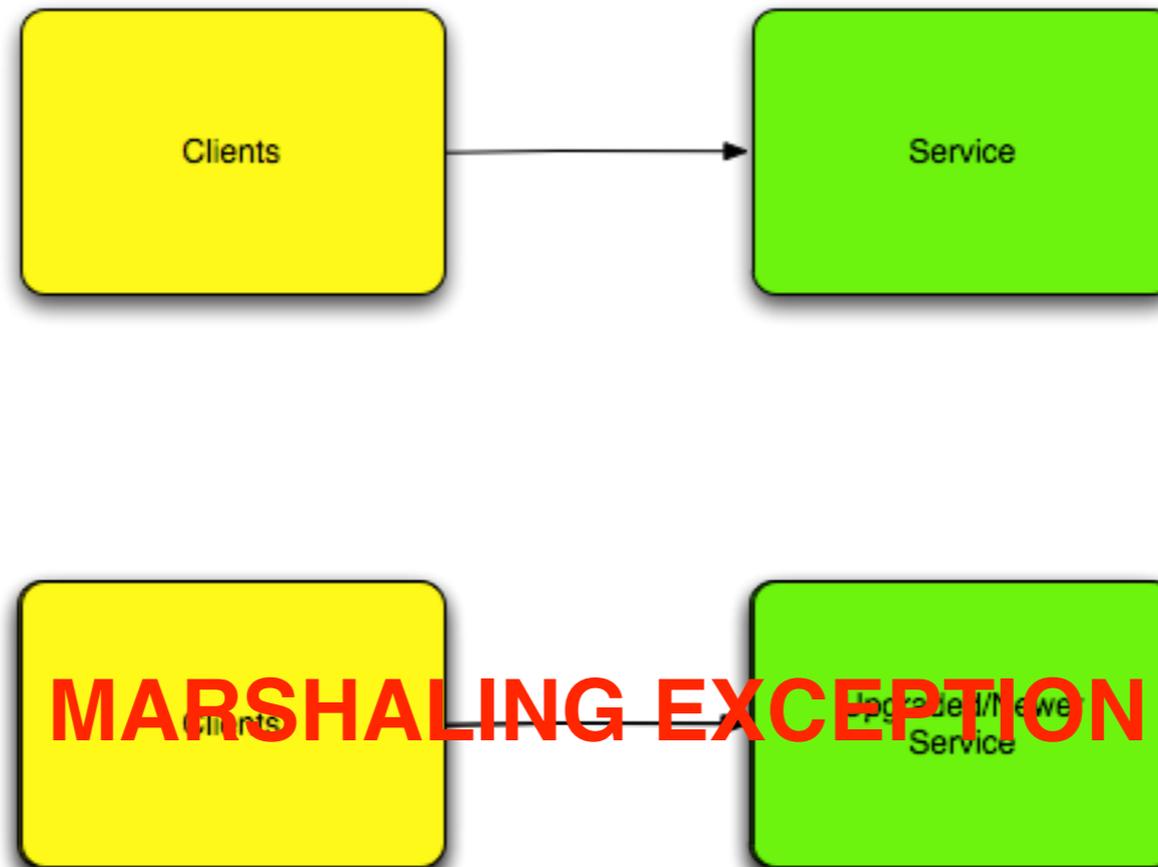
Translator or Transformer



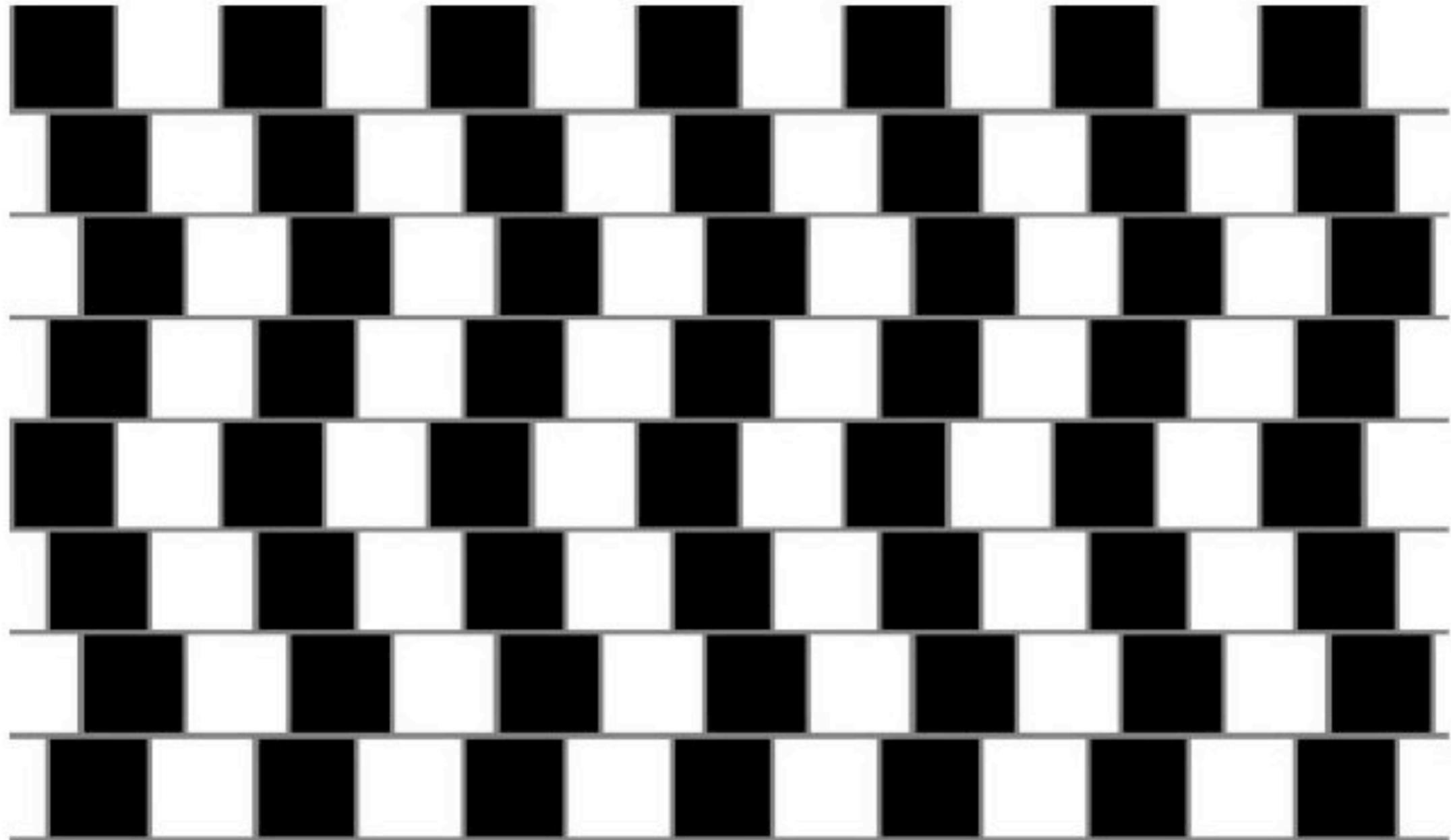
Tip #5 - Version early - Version often



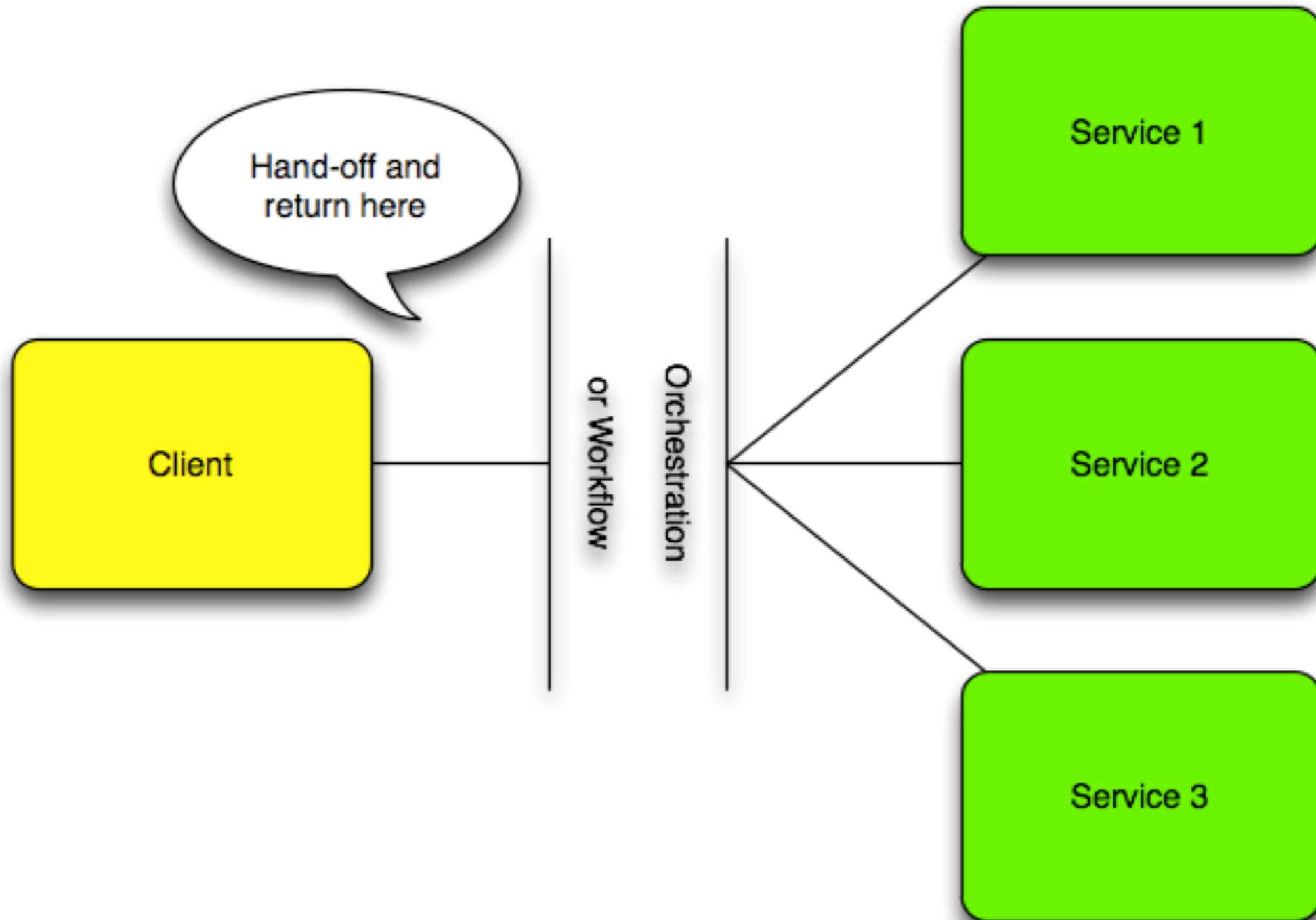
Tip #5 - And if you don't version...



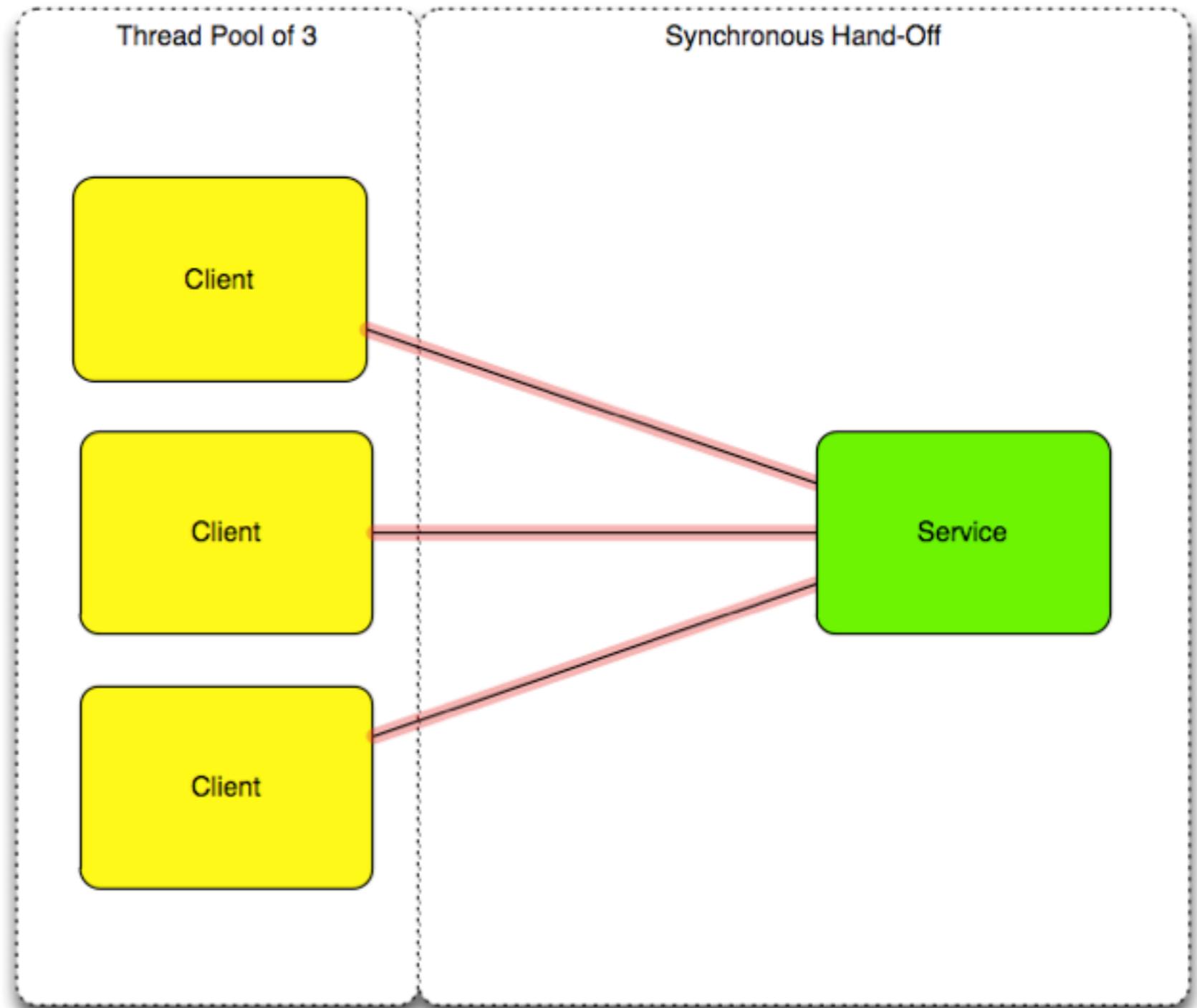
Tip #6: Be as Sloped on quas as Possible



Tip #6 - Be as Asynchronous as Possible



Tip #6 - And if you don't...



What's-What-Where XML's Going Use

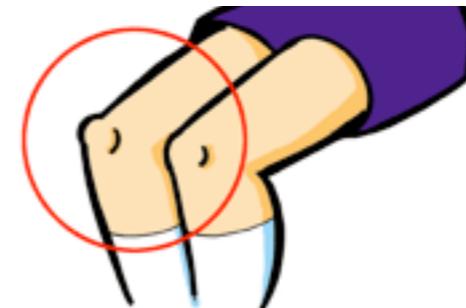
I LOVE SOAP!

I LOVE XML!



Tip #7 - And if you use too much XML...

THOMSON
MICROMEDEX™

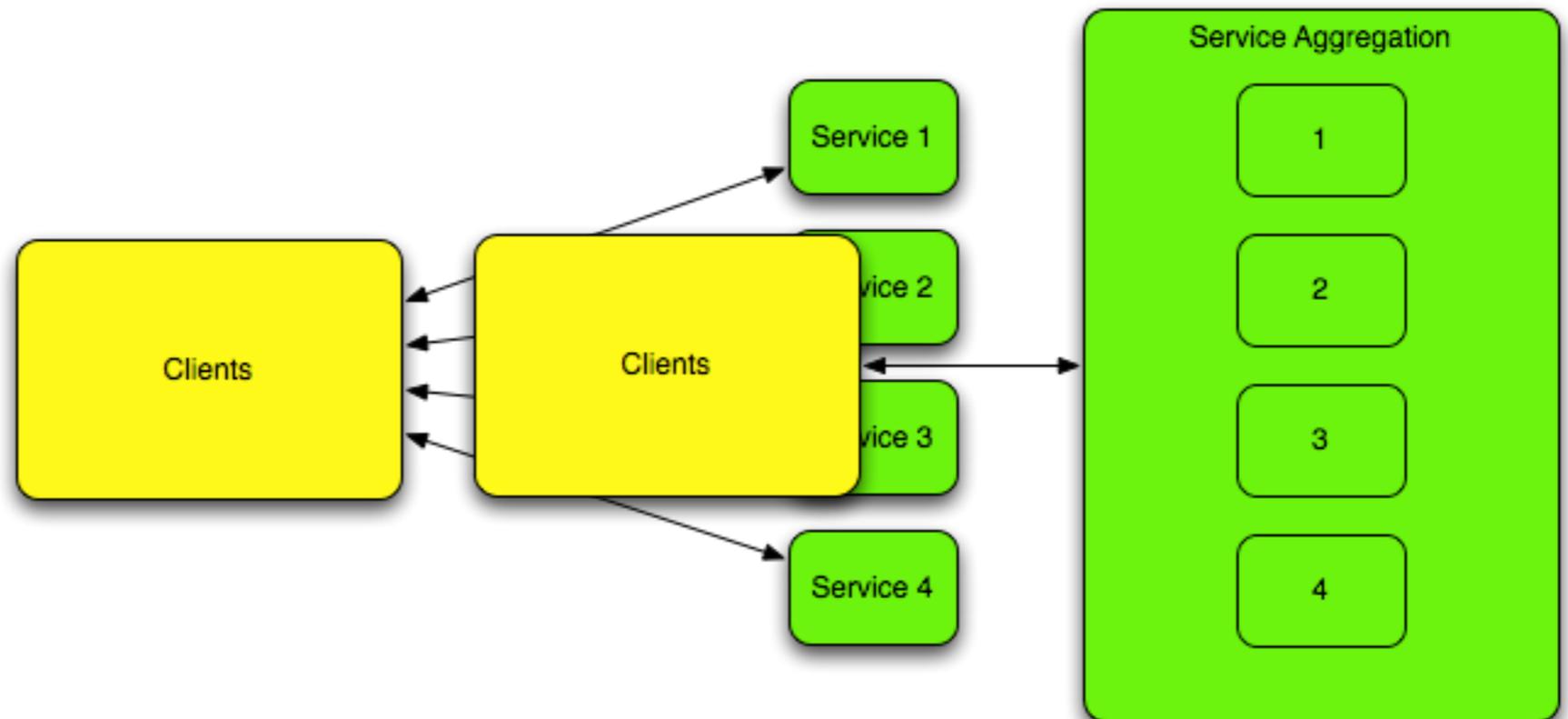


knees

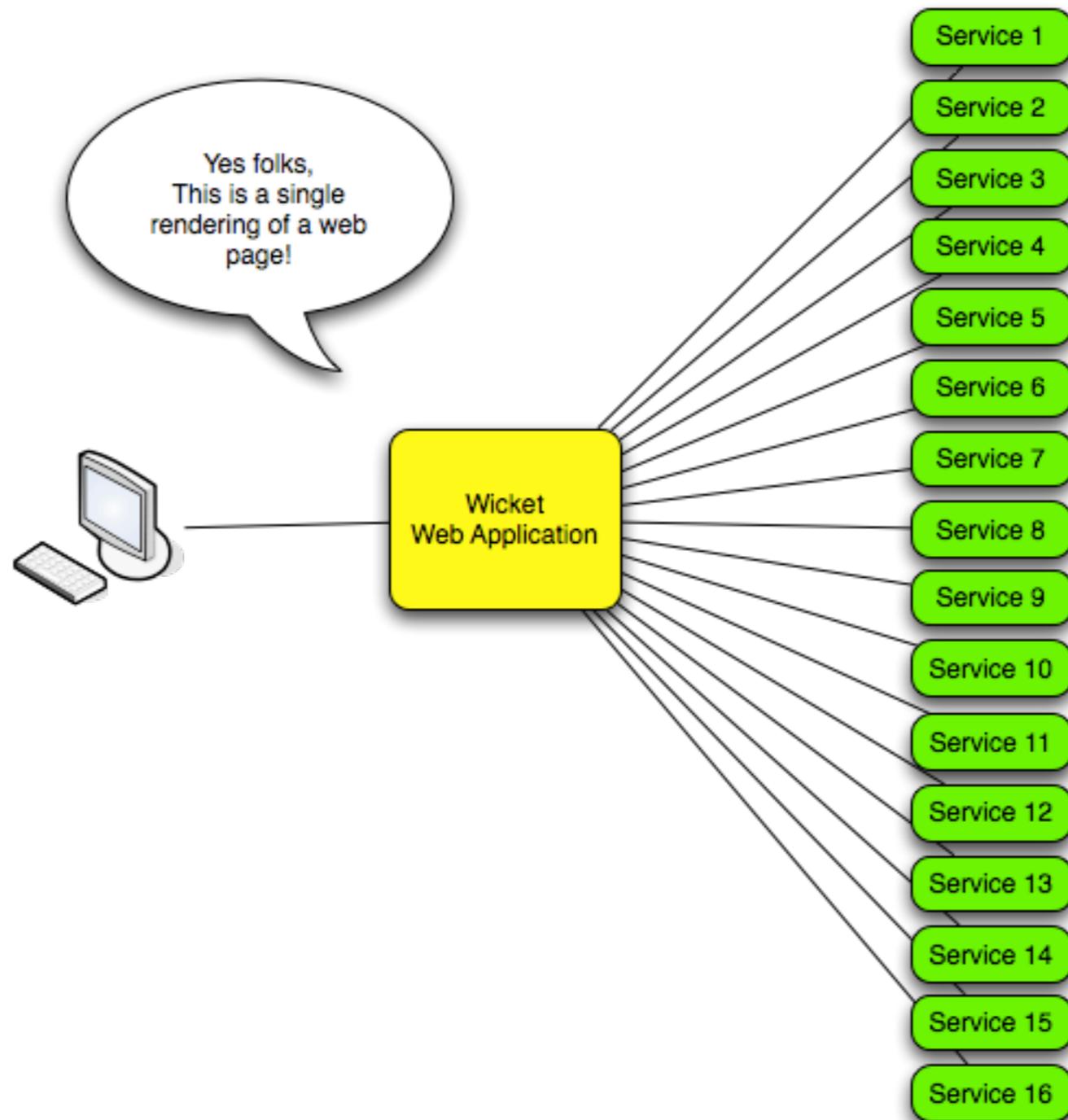
What's Different with the rigging? Anularity



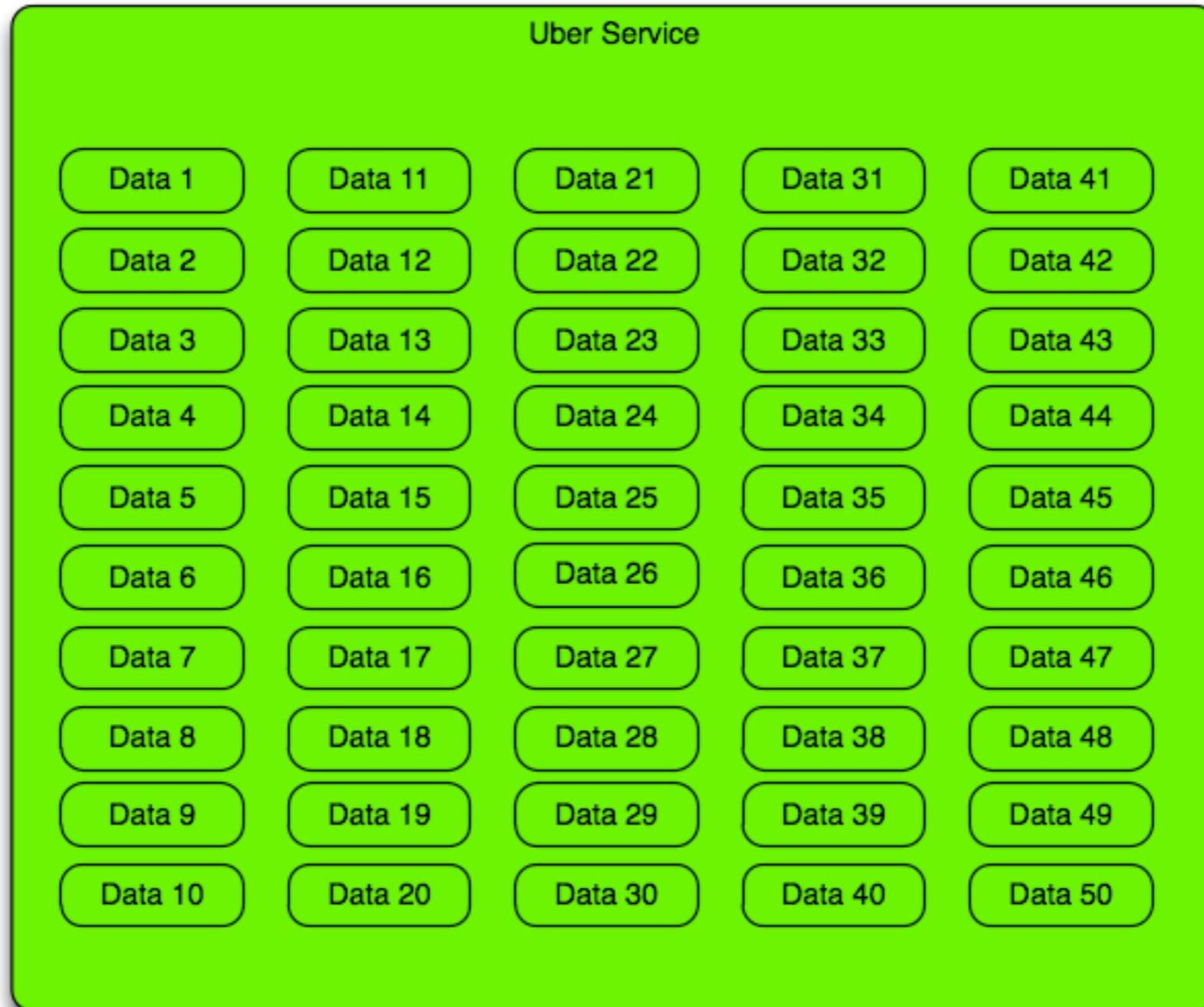
Tip #8 - Design with the right granularity



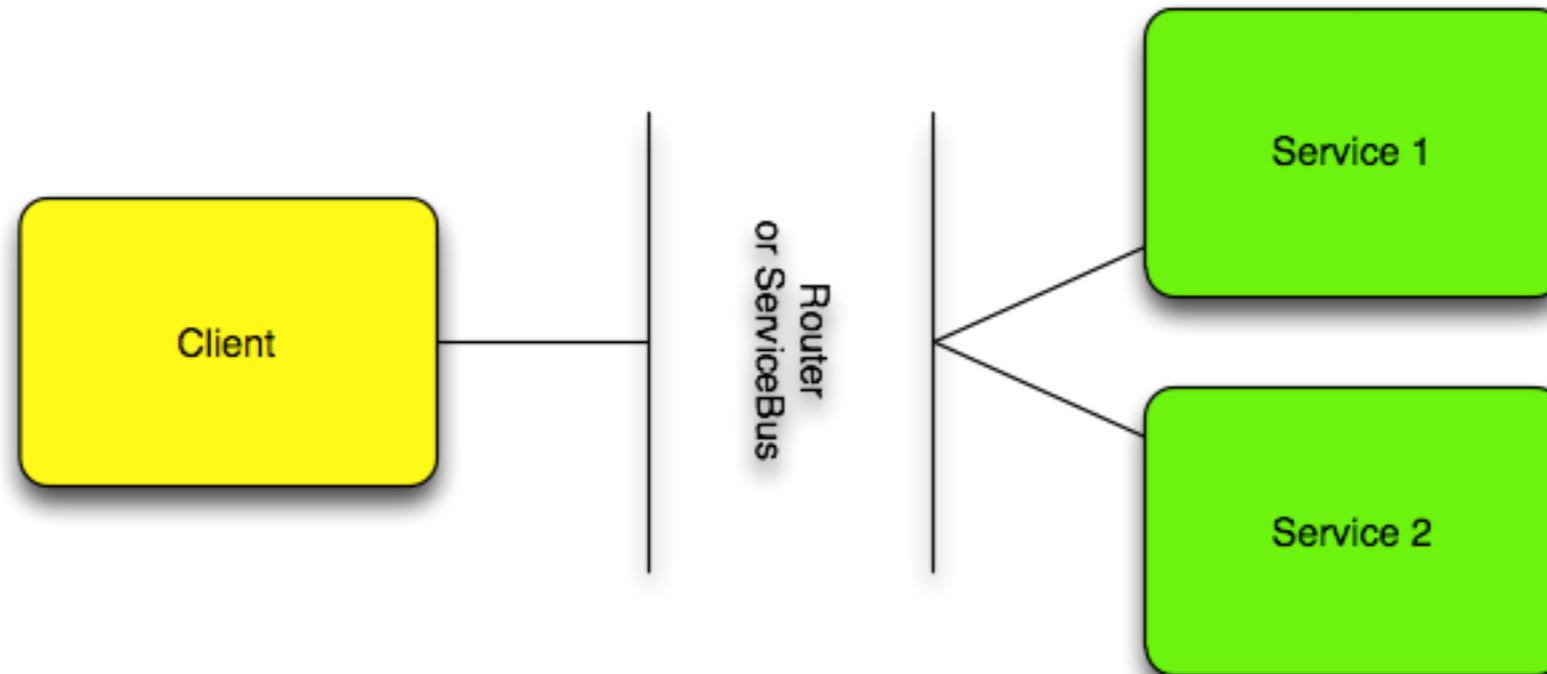
Tip #8 - And if you don't...



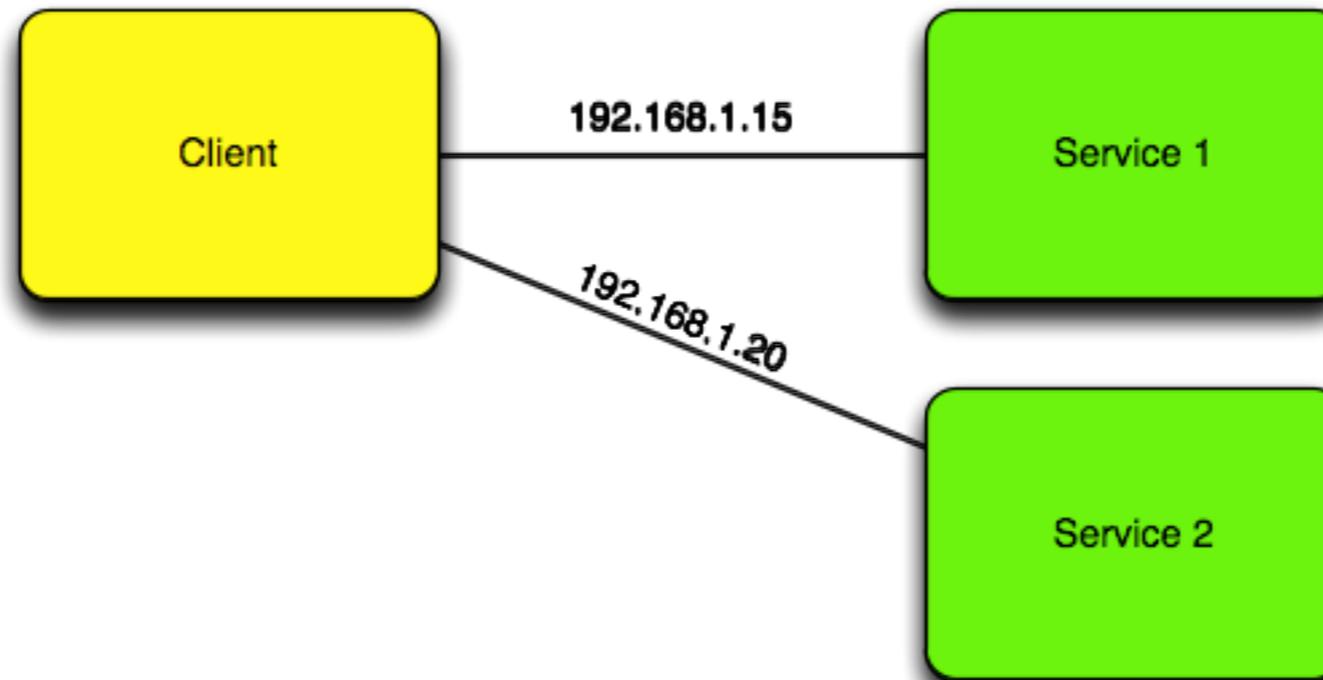
Tip #8 - The Granularity Caveat - The Uber Service



Tip #9 - Point to Point is Bad, Bad, Bad



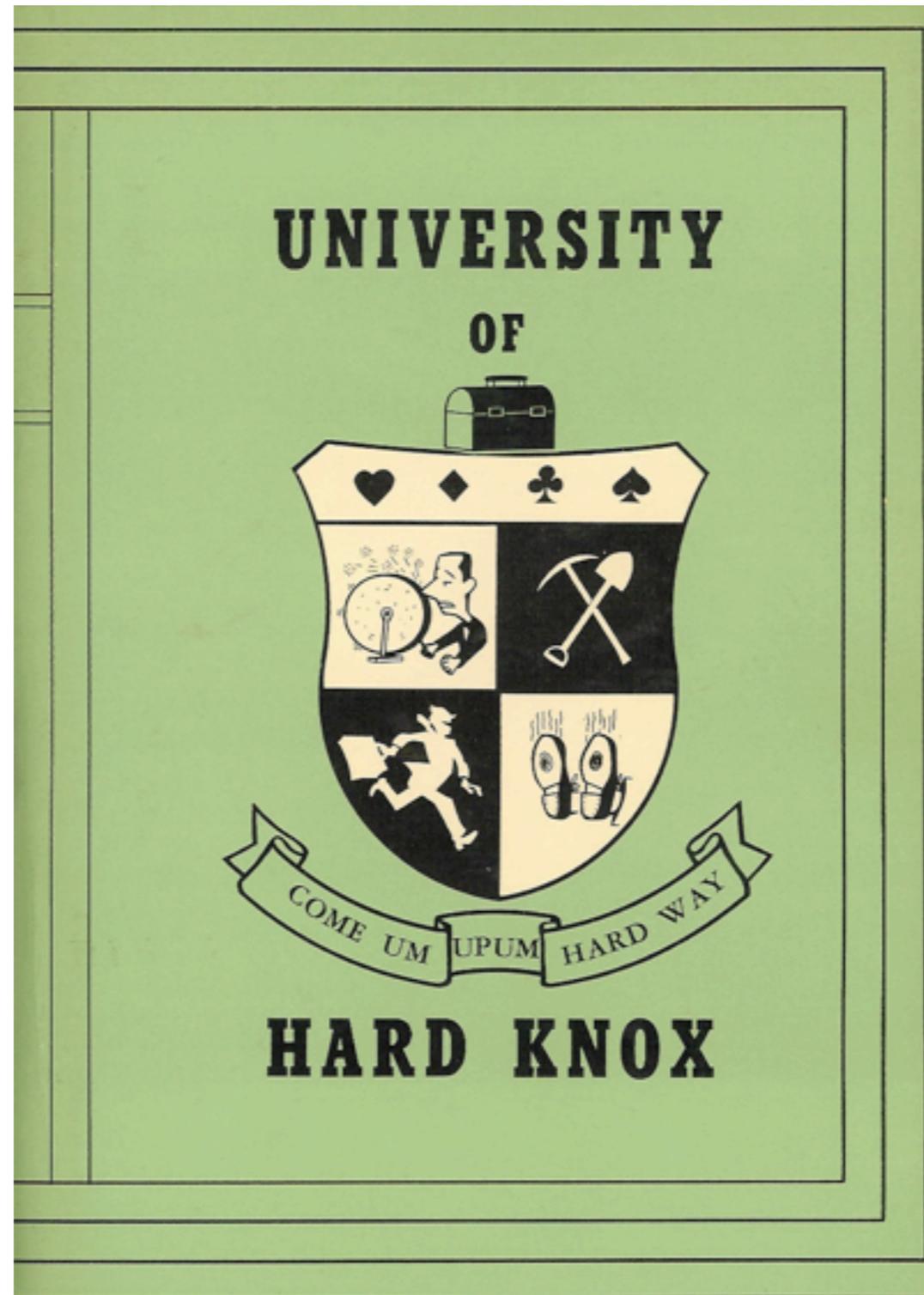
Tip #9 - And if you don't...



What is this? Where would you find it? Why?



Tip #10 - And if you don't...



Questions?





Thank You!

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