

# Event Sourcing

Greg Young

## QCon San Francisco 2007

[Speakers](#)  
[Schedule](#)  
[Tutorials](#)  
[Tracks](#)  
[Keynotes](#)

[Social Events](#)

[Exhibition](#)  
[Sponsors](#)

[Registration](#)  
[Volunteers](#)  
[Venue](#)

[Travel](#)  
[Hotels](#)

[About QCon](#)

[All QCon events](#)

### **Presentation: "Scaling Domain Driven Design"**

**Track:**  [Architecture Quality \(day 2\)](#)

**Time:** Thursday 16:00 - 17:00

**Location:** Metropolitan I

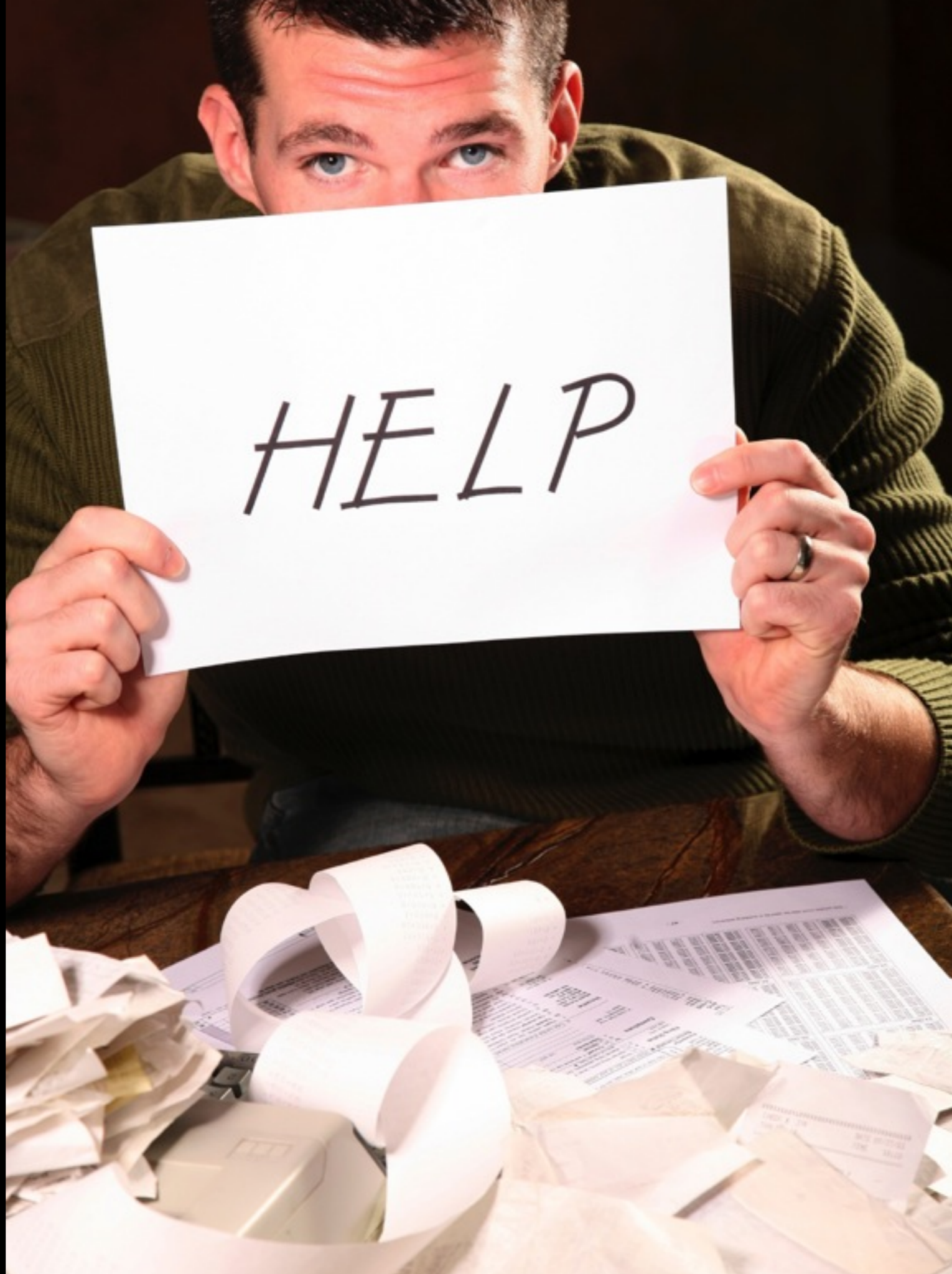
**Abstract:** We've all heard about Domain Driven Design (DDD), but have you seen it applied in a large system? In the session you'll see how DDD was put to work to help design a high performance application processing 2000 sustained transactions per second with over 30GB of data added daily! It was DDD and the new 'Asynchronous Context Mapping' pattern that made this system possible with near linear scaling. Learn how to apply these techniques in your applications and how to overcome the challenges of DDD, such as reporting. This session makes large scale DDD make sense.

 [Download slides](#)

### **Greg Young, IMIS**



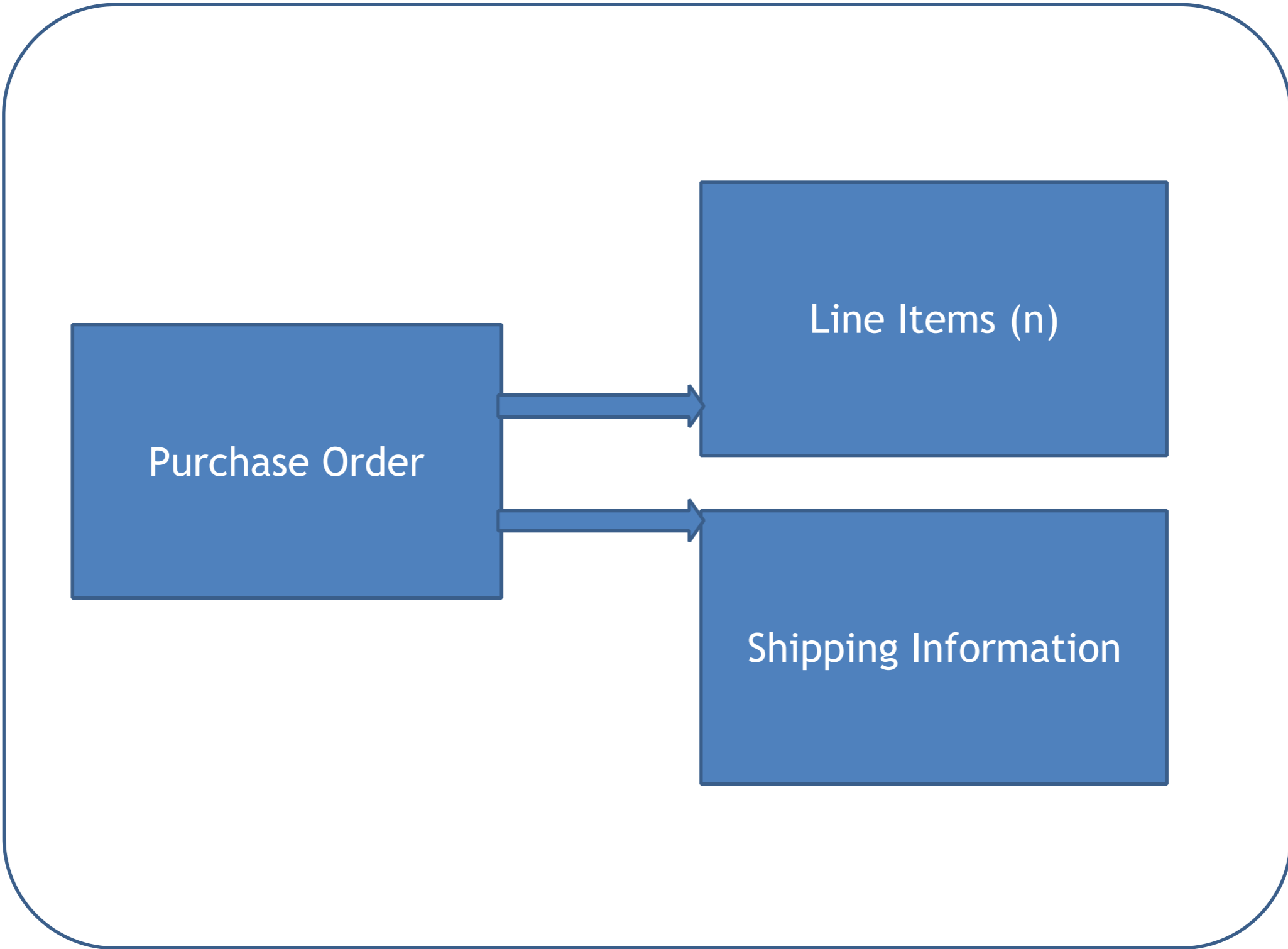
writing articles for InfoQ throughout the south east northwest, or floating up kayak.



HELP



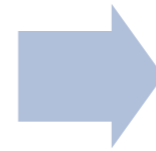
Event Sourcing says all state is transient and you only store facts.



Cart  
Created



3 Items  
Added



Shipping  
Informati  
on Added





Cart  
Created



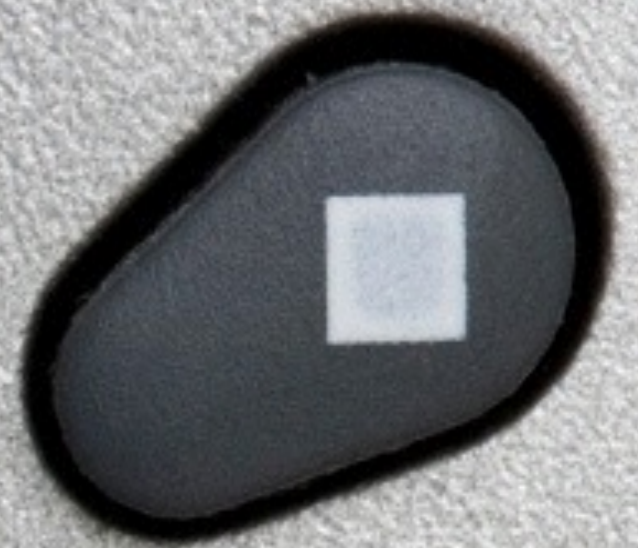
3 Items  
Added



1 Item  
Removed



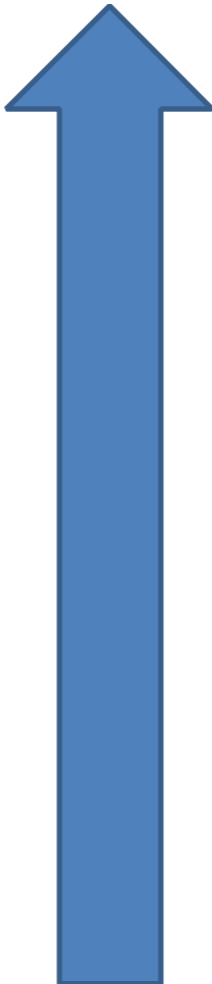
Shipping  
Informati  
on Added

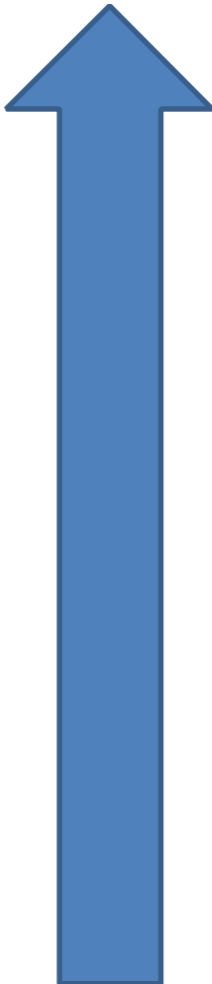


**Replay**

**Skip**









I can't query a series  
of events



**Cassandra**



mongoDB

Redis



 **riak**

**CouchDB**  
relax

 WILEY

# Succeeding with Object Databases

A Practical  
Look at Today's  
Implementations  
with Java<sup>™</sup>  
and XML

Akmal B. Chaudhri  
Roberto Zicari





There is no “Best”  
storage

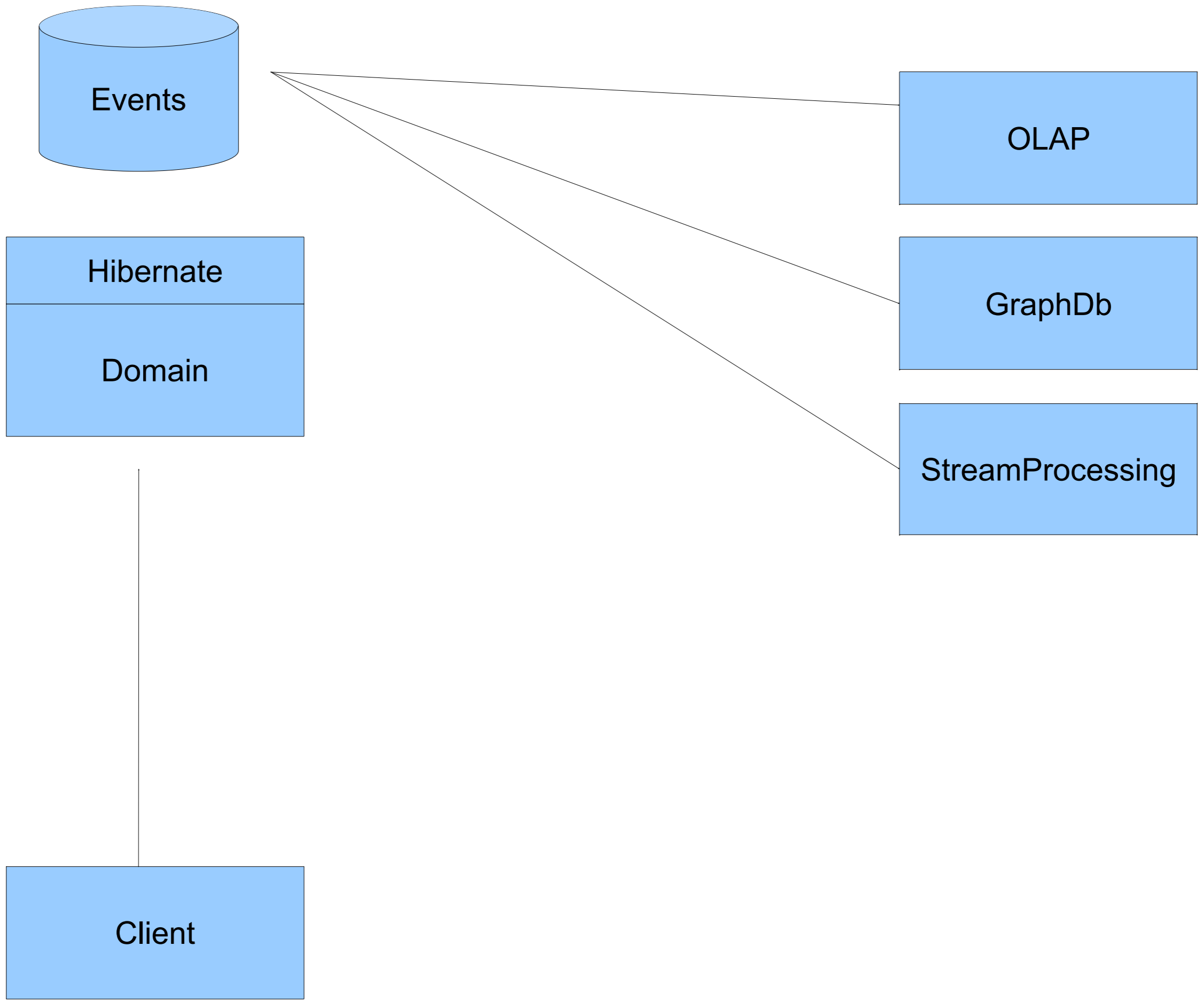


twitter

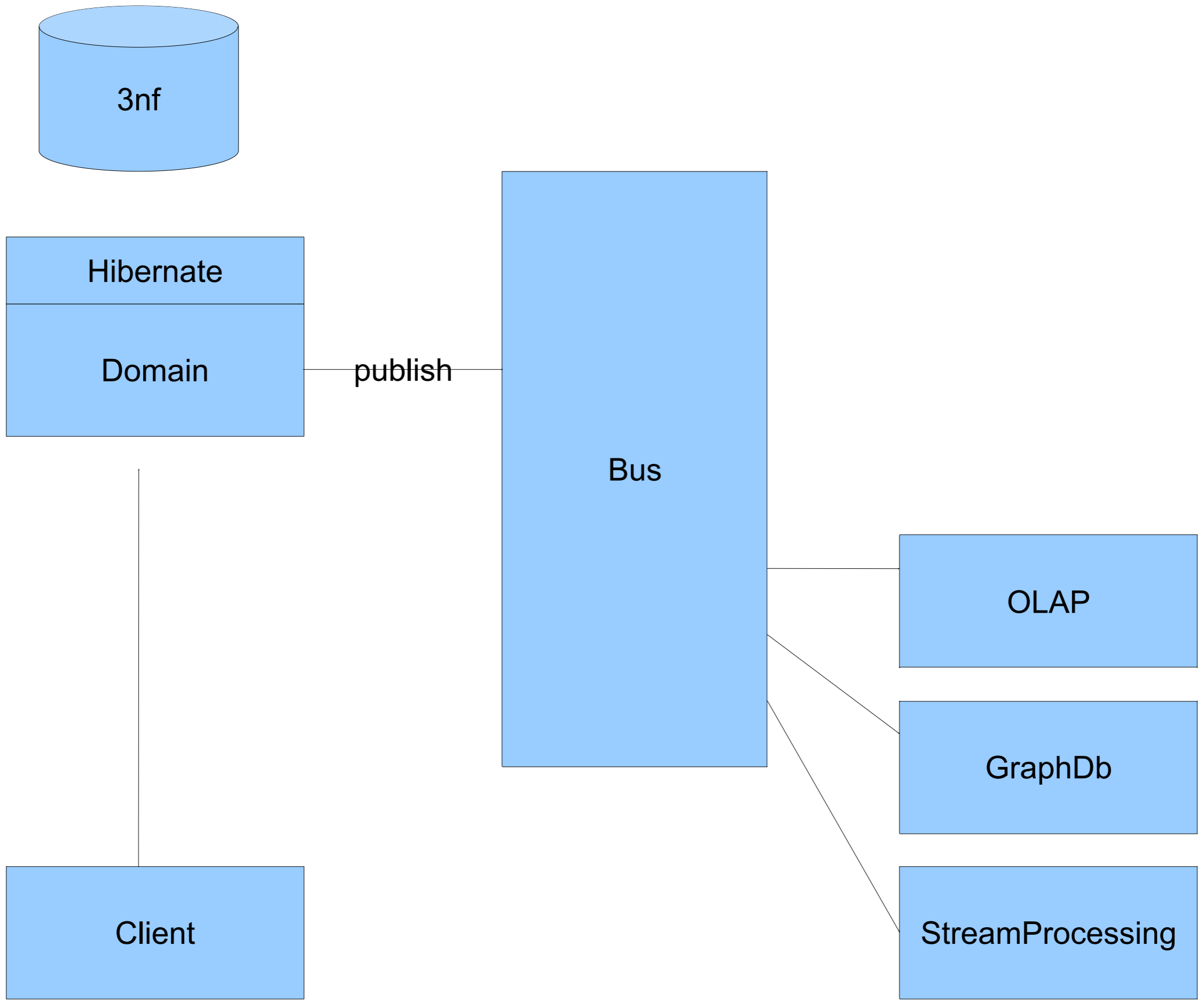
Id	ParentId	Data
1	0	Parent
2	1	Child1
3	1	Child2

Id	ParentId0	ParentId1	ParentId2	ParentId3	ParentId4	Data
1	0	0	0	0	0	Parent
2	1	0	0	0	0	Child1
3	1	2	0	0	0	Child2

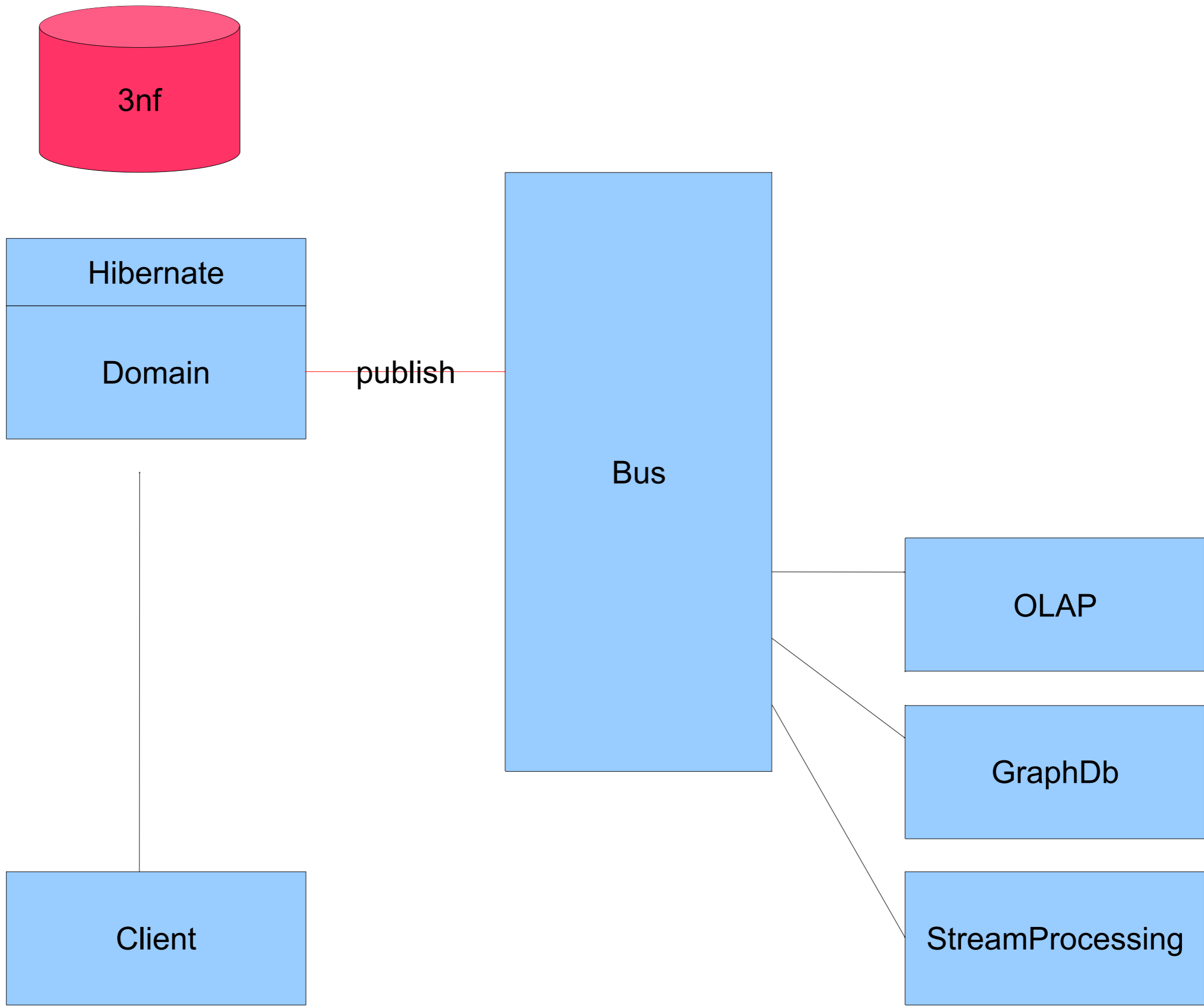
Wrong models cause  
accidental complexity

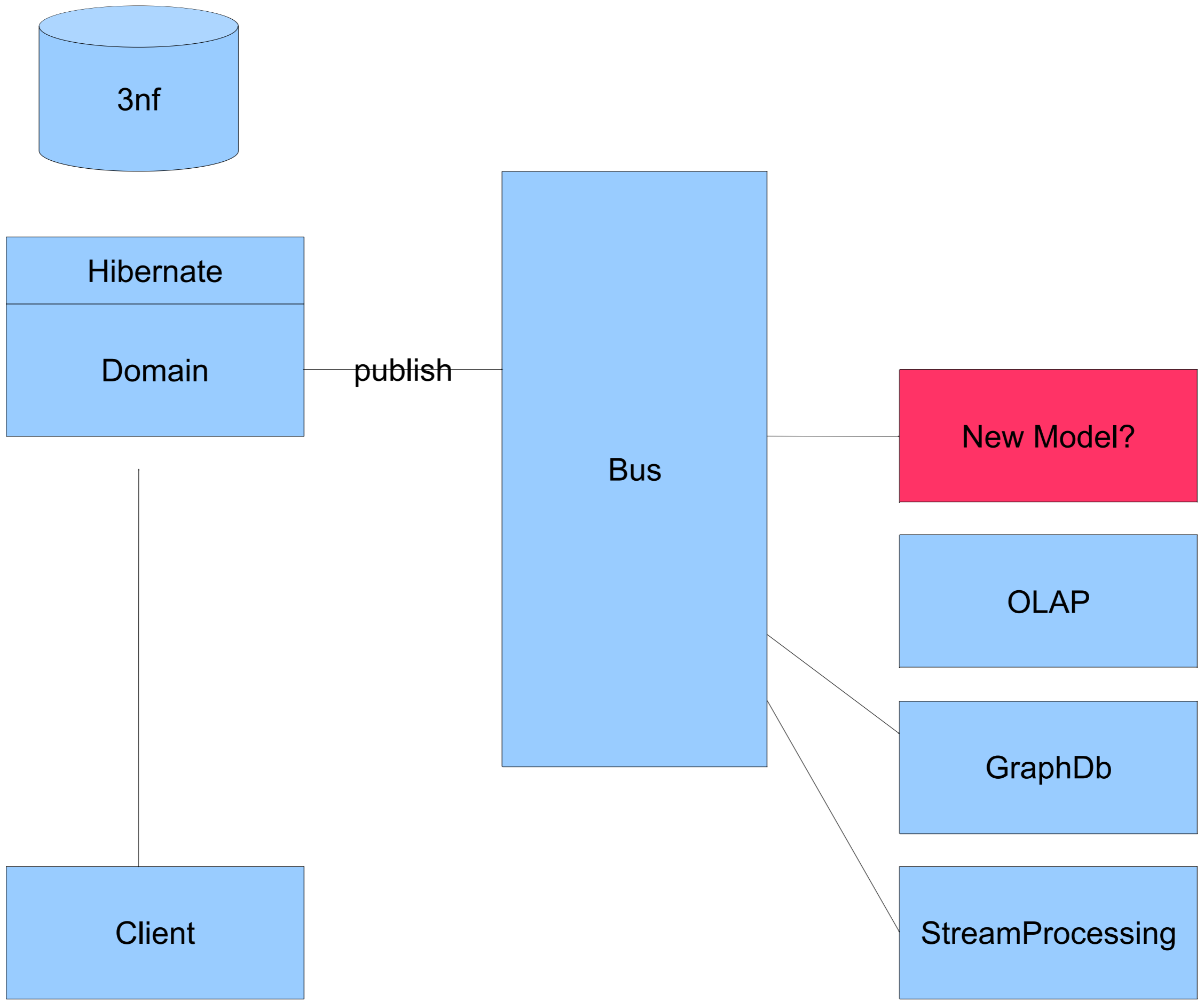


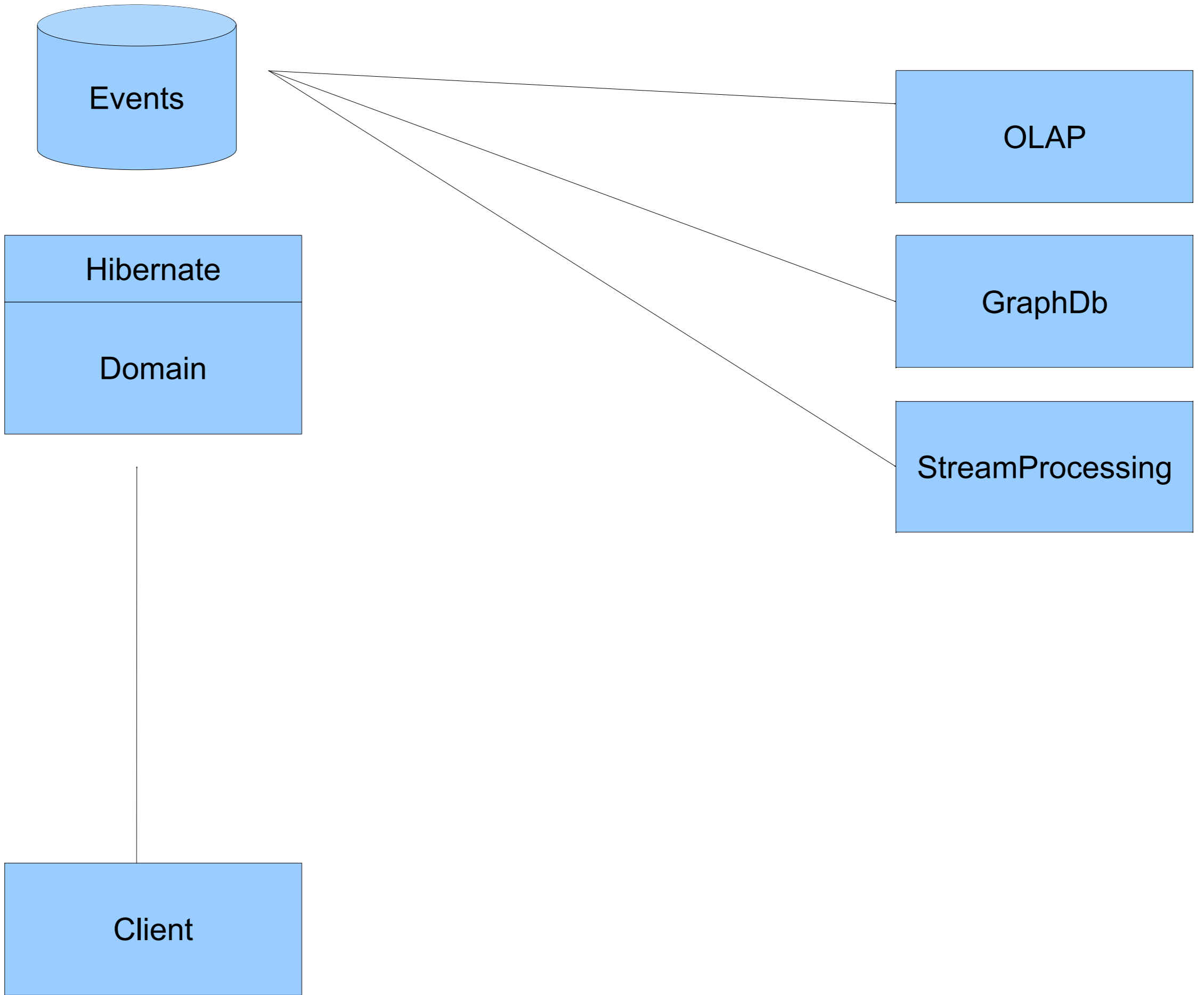
Event Sourced Systems  
need a service bus

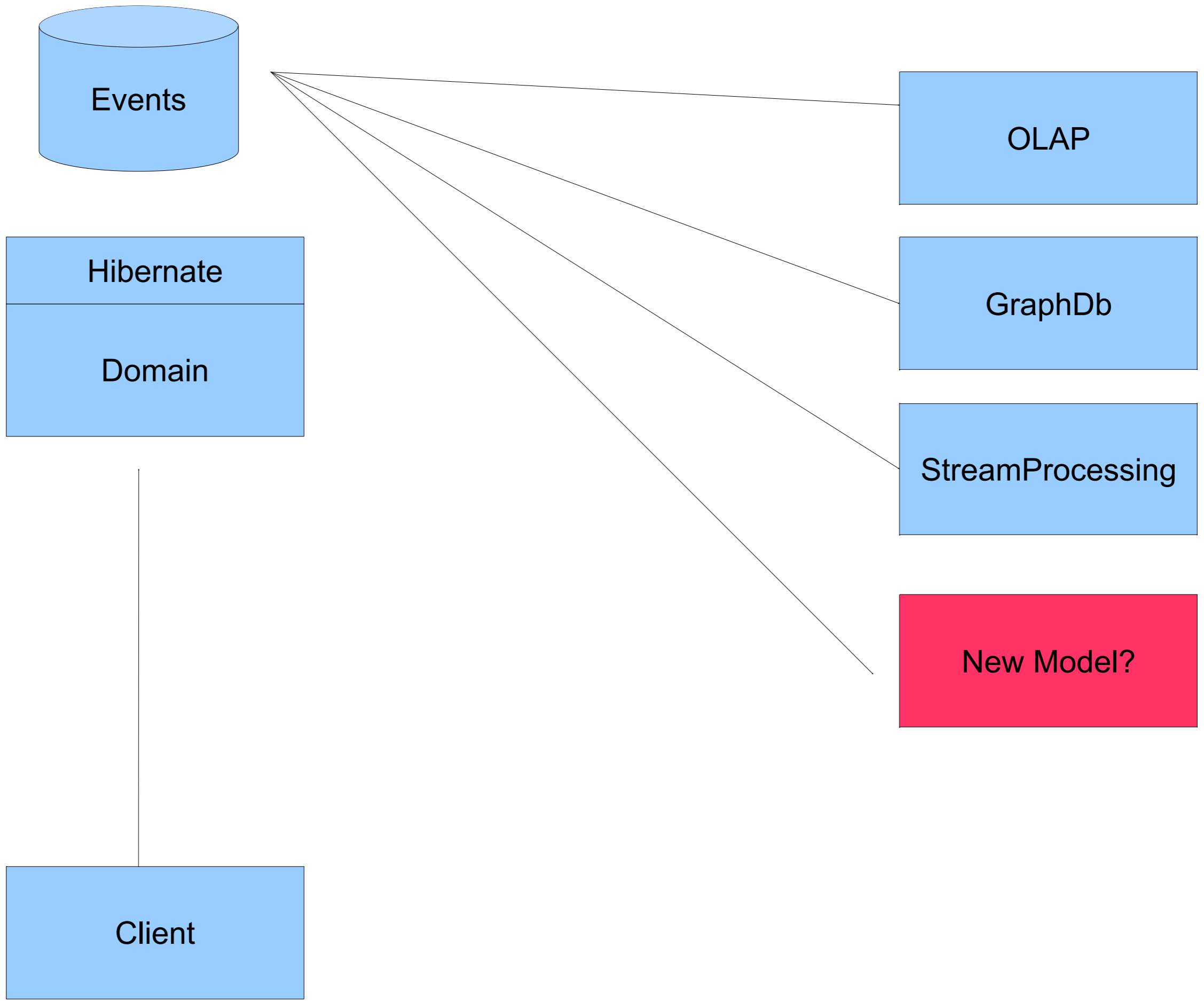












Event Sourcing is  
more complex!

# What big companies are using Event Sourcing?

Because obviously we make our decisions this way!

Event Sourced  
systems must be slow

Event Sourced systems  
must be object oriented



What is the “bestest”  
Event Sourcing  
framework ever?

But what about all my  
data with Event Sourcing  
it must be huge!

If it fits on a micro-SD its not big data.

CQRS is just a  
teaching pattern!

Event Sourced  
systems must be slow

Event Sourced systems  
must be object oriented

But what about all my  
data with Event Sourcing  
it must be huge!

Event Sourcing isn't  
“enterprisey”

Event Sourcing isn't  
“enterprisey”

THANKS!



No really Thanks!