DDD & Microservices

At last, some boundaries!

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Why do I like microservices?

- Autonomous teams with isolated implementation.
- Acknowledge the rough and tumble of enterprises.
- Cattle not pets.
- A philosophical break from the past gives us a chance to shake assumptions.

Possibly, some other people mean something else: What I'm saying may not apply to that!

Services and Messages







How do they understand the messages?

Bounded Context

- context The setting in which a word or statement appears that determines its meaning
- bounded context The conditions under which a particular model is defined and applicable.



Context Map





Context Map



Asymmetrical Relationships





Context Map

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Models need to be clear, not big.

- Useful models need crisp definitions.
- Definitions require clear context.
- Useful models need simple assertions.
- Assertions require boundaries.

There are always multiple models.

Not all of a large system will be well designed.

Interchange context

Why not logical boundaries?

- Smart people point out that most of what I want is the logical partitioning of the system.
- We've had decades to get that to work.
- Some techniques are too subtle to survive the rough and tumble.

Wrap up

- Subtle design (such as DDD) requires concrete boundaries.
- Lots of services recreate some of the old problems.
- Context Maps help visualize and communicate about those problems.
- Modest use of interchange contexts is one way of organizing coherent services.

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