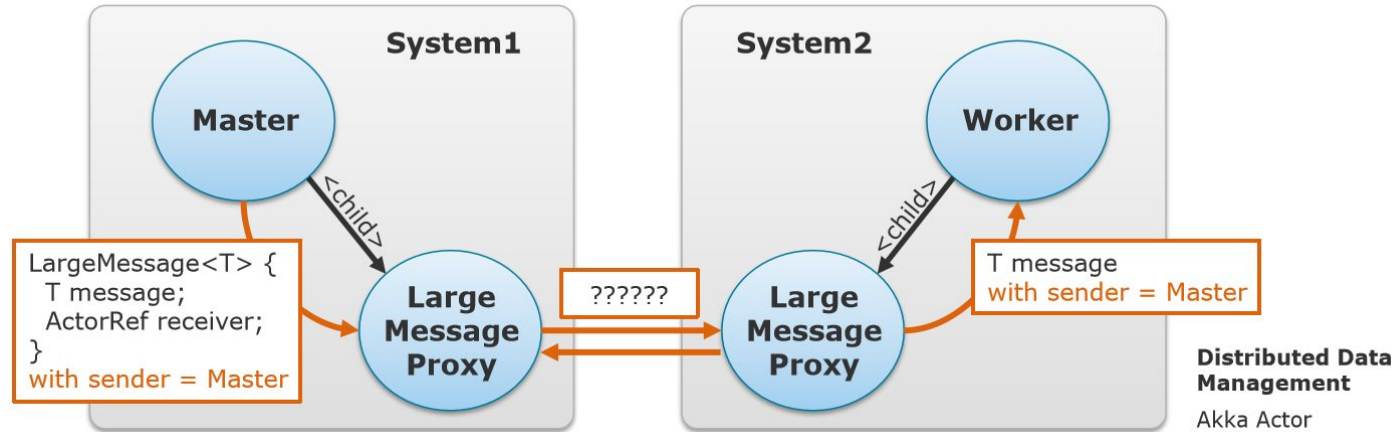


Akka Homework – Task 1

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Distributed Data Management SS 2020

Task 1: Large Message Proxy



Distributed Data Management

Akka Actor Programming

ThorstenPapenbrock
Slide **130**

Task

- Implement the `LargeMessageProxy` actor!

Task 1: Our Approach Step By Step: Batch Solution

1. serialize the Large Message into Byte Array
2. split the array into batches
3. send Pre-message with buffer-size in order to tell the receiving side how many bytes will be expected
4. send the Large message batch-wise
5. send Post-Message to re-construct byte array
6. deserialize byte array into large message and forward it to Receiver

Notes:

- We can rely on the sender/receiver order (all messages between specific sender-receiver pairs are ordered) to make sure we are able to correctly re-construct the Large Message.
- *serializerID* and *manifest* have to be available on both sender and receiver side in order to serialize/deserialize correctly