

Solution Approach (1)

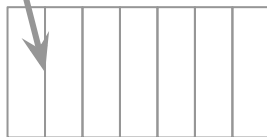
We decided to use **Artery with Akka Streams**.

1. Sender:
 - a. The generic object is serialized into a `byte[]` array using Kryo
 - b. An `Stream Source` is created containing the array
 - c. A `BytesMessage` is created containing references to the `Source (SourceRef)`, receiver and sender actor (`ActorRef`)
 - d. The message is sent to the receiver proxy. Akka Streams streams the `Source` on a separate **Artery** channel
2. Receiver:
 - a. From the received `SourceRef` in the `BytesMessage`, a sequence `Sink` is created to collect the streamed bytes.
 - b. The collected bytes are deserialized into an `Object`
 - c. The object is passed to the actual receiver

Solution Approach (2)

BytesMessage

```
SourceRef<Byte> byteStream;  
ActorRef sender;  
ActorRef receiver;
```



Artery Stream