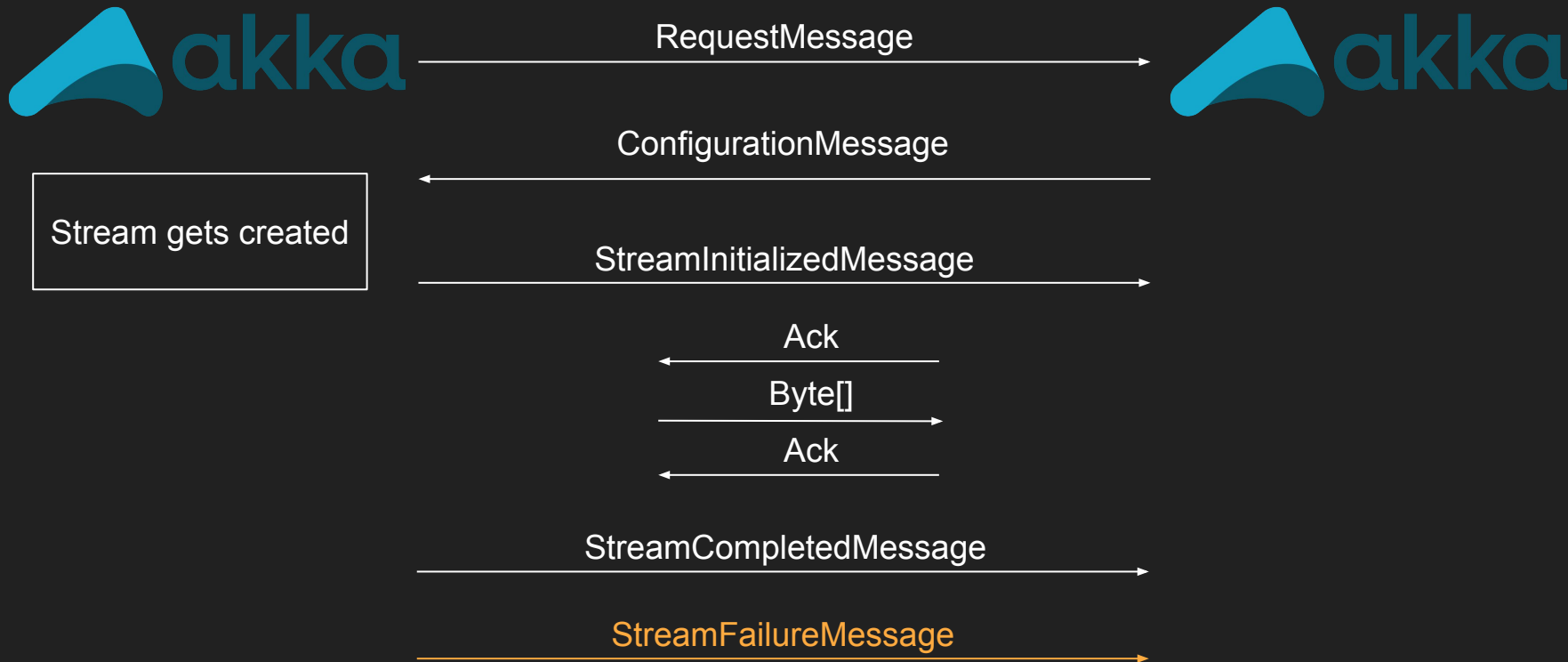


# Large Message Proxy

Using akka-streams

# Protocol Setup



# Serialization

```
// serializing with kryo and the architecture given
this.outgoingRequest = KryoPoolSingleton.get().toBytesWithClass(message.getMessage());
```

```
// Creating sink with protocol
Sink sink = Sink.actorRefWithAck(
    message.getSender(),
    new StreamInitializedMessage(),
    Ack.INSTANCE,
    new StreamCompletedMessage(),
    err -> new StreamFailureMessage(err)
);
```

Source

```
.fromIterator(creator)
.runWith(sink, ActorMaterializer.create(this.context()));
```

# Challenges

- Identifying actors
- Streaming BufferOverflow
- Chunking

# Solutions

- Request- and ConfigurationMessage
- Stream with Backpressure
- Creator for Iterator