Routing With SFTP

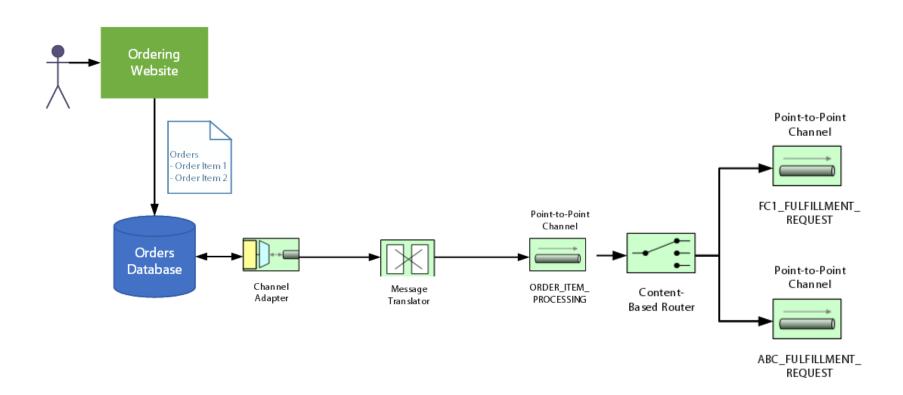
Michael Hoffman @mhi_inc





Routing With SFTP Error Handling File Processing and Case SSH File Transfer Study Camel CSV component Deadletter Channel EIP Aggregator EIP Camel File component CSV file creation onException errorHandler Camel FTP component ✓ SFTP **Error** handling

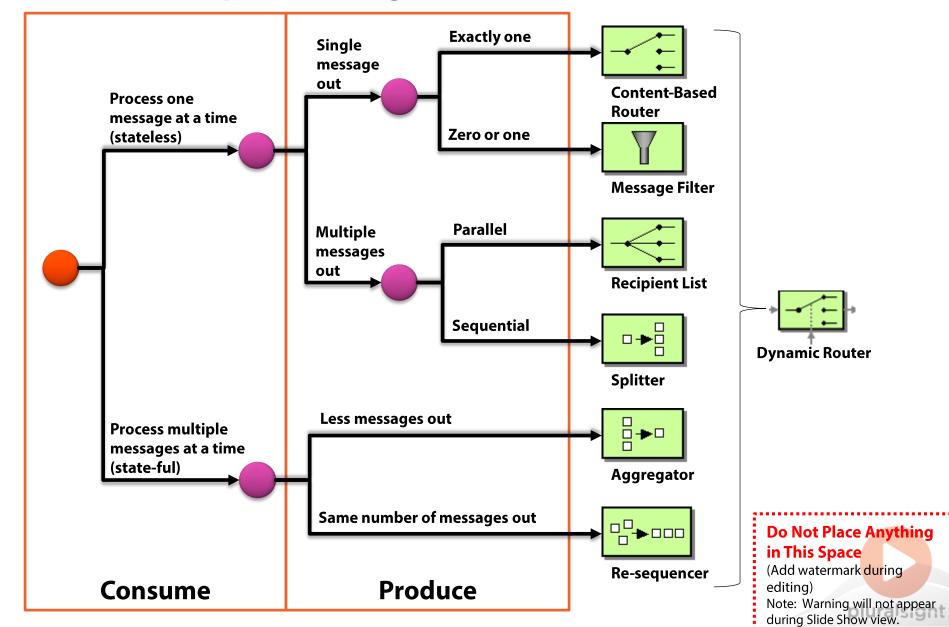
Case Study Project – Route Recap



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Simple Message Router Decision Tree



Aggregator EIP

- Correlation expression
 - □ fulfillmentCenter = "abc"
- Completeness condition
 - Wait for all, timeout, first best, external event
- Aggregation algorithm
- Persistence

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Aggregation In Camel

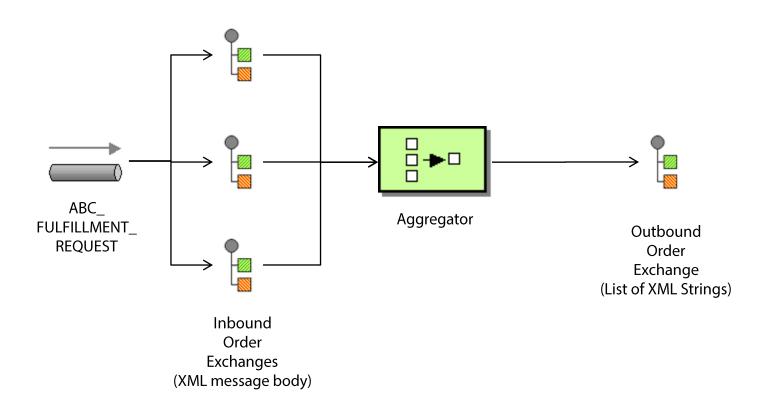
Camel DSL

- Aggregate expression
- Correlation expression
 - CamelExchangeException
- Completeness condition
- Aggregation Strategy
 - AggregationStrategy interface
- Persistence

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Case Study Project – Aggregator



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Camel CSV Component

- CSV component library
 - camel-csv
- Apache Commons CSV
- Marshalling/unmarshalling to CSV

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Camel File Component

- URI
 - file:fileOrDirectoryName[?options]
- Read/write files

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Camel FTP Component

FTP component library

camel-ftp

URI format

- ftp://[username@]hostname[:port]/directory[?options
- sftp://[username@]hostname[:port]/directory[?opt ions
- ftps://[username@]hostname[:port]/directory[?opt ions
- Marshalling/unmarshalling to CSV

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Camel Error Handling

- Camel onException
 - **Error** Dead Letter Channel
 - Message redelivery
 - errorHandler

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Final Camel Route

```
onException(CamelExchangeException.class)
    .to("activemq:queue:ABC FULFILLMENT ERROR");
from("activemq:queue:ABC FULFILLMENT REQUEST")
    .aggregate(new ABCFulfillmentCenterAggregationStrategy())
        .xpath("//*[contains(text(), '" +
            FulfillmentCenter.ABC FULFILLMENT CENTER.value() +
            "')]", String.class, namespace)
        .completionInterval(10000)
    .beanRef("aBCFulfillmentProcessor", "processAggregate")
    .marshal()
        .csv()
    .to("file://C:/dev/abcfulfillmentcenter/out?fileName=abcfc-" +
        dateString + ".csv")
    .setHeader("CamelFileName",
        constant("abcfc-" + dateString + ".csv"))
    .to("sftp://localhost:22?username=test&password=test")
```

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