

The X Platform

Eagle

September 4, 2015

Application Authoring - Design Elements

	Message Model	State Model	Dependency Injection	Message Handlers	Collaboration Routing	Messaging Patterns
Talon	X-ADML	X-ADML/POJO	None	Annotated	Channel based Hand crafted	Streaming
Lark	X-ADML	X-ADML/POJO	None (support for DI app)	Annotated	Topic based, Rich topic namespace, Declarative	Streaming
Eagle	X-ADML	X-ADML/POJO	Google Guice	Generated, DI Injected	Service based, Fixed topics per service	Streaming Request-Reply

	CnC	Alerting	Statistics
Talon	Annotated	Hand Crafted	Heartbeats
Lark	Annotated	Hand Crafted	Heartbeats
Eagle	Annotated + Canned Commands	DI Injected	Heartbeats

Eagle Application

**X-ADML
(Messages)**

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**X-ADML
(State)
[Optional]**

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```
@EventHandler
final public void onNewOrder(final NewOrderMessage message) {
    // instantiate a new order
    final Order order = orderPool.get(null);

    // extract from into the order
    NewOrderMessageExtractor.extract(message, order);

    // initialize order state
    order.setState(OrderState.New);

    // add to the application's order collection
    orders.put(order.getId(), order);

    // create a new order event
    final OrderEvent event = OrderEvent.create();

    // populate the event
    OrderEventPopulator.populate(event, order);

    // send the event
    sendMessage(event);
}
```

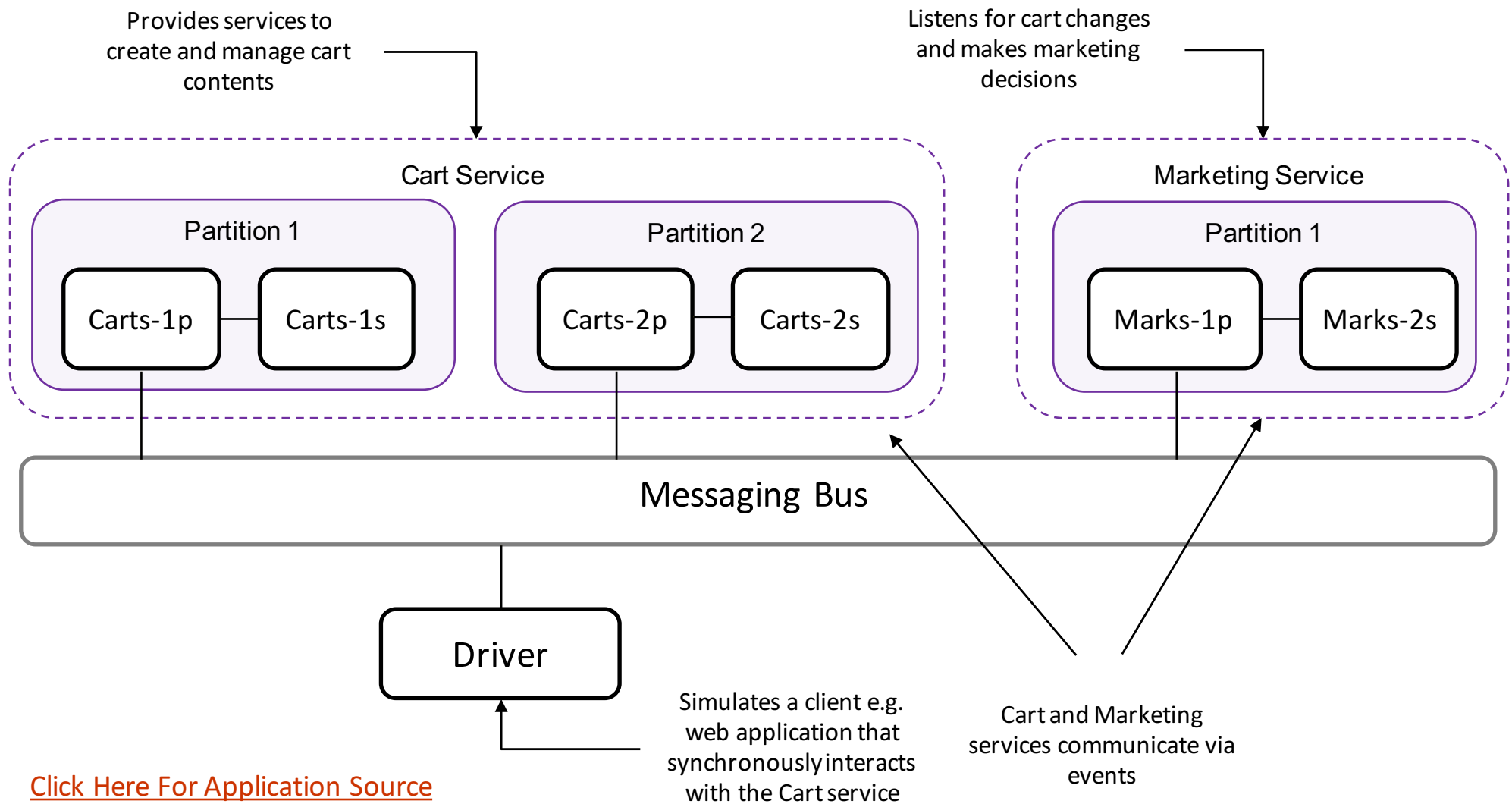
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**X-DDL
(Configuration)**

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**X-ASML
(Service)**

Bookstore Application



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