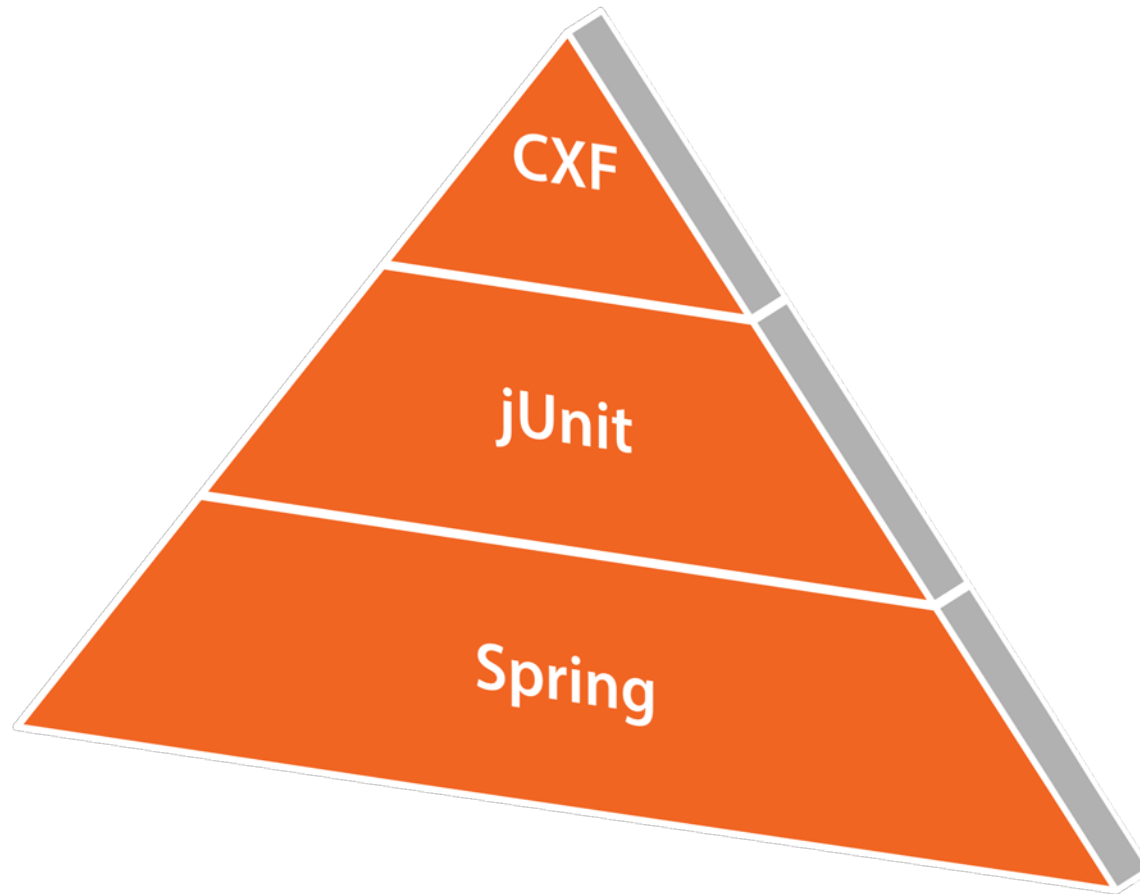# Testing a CXF Web Service

Michael Hoffman
@mhi_inc

pluralsight
hardcore dev and IT training

Module Objectives
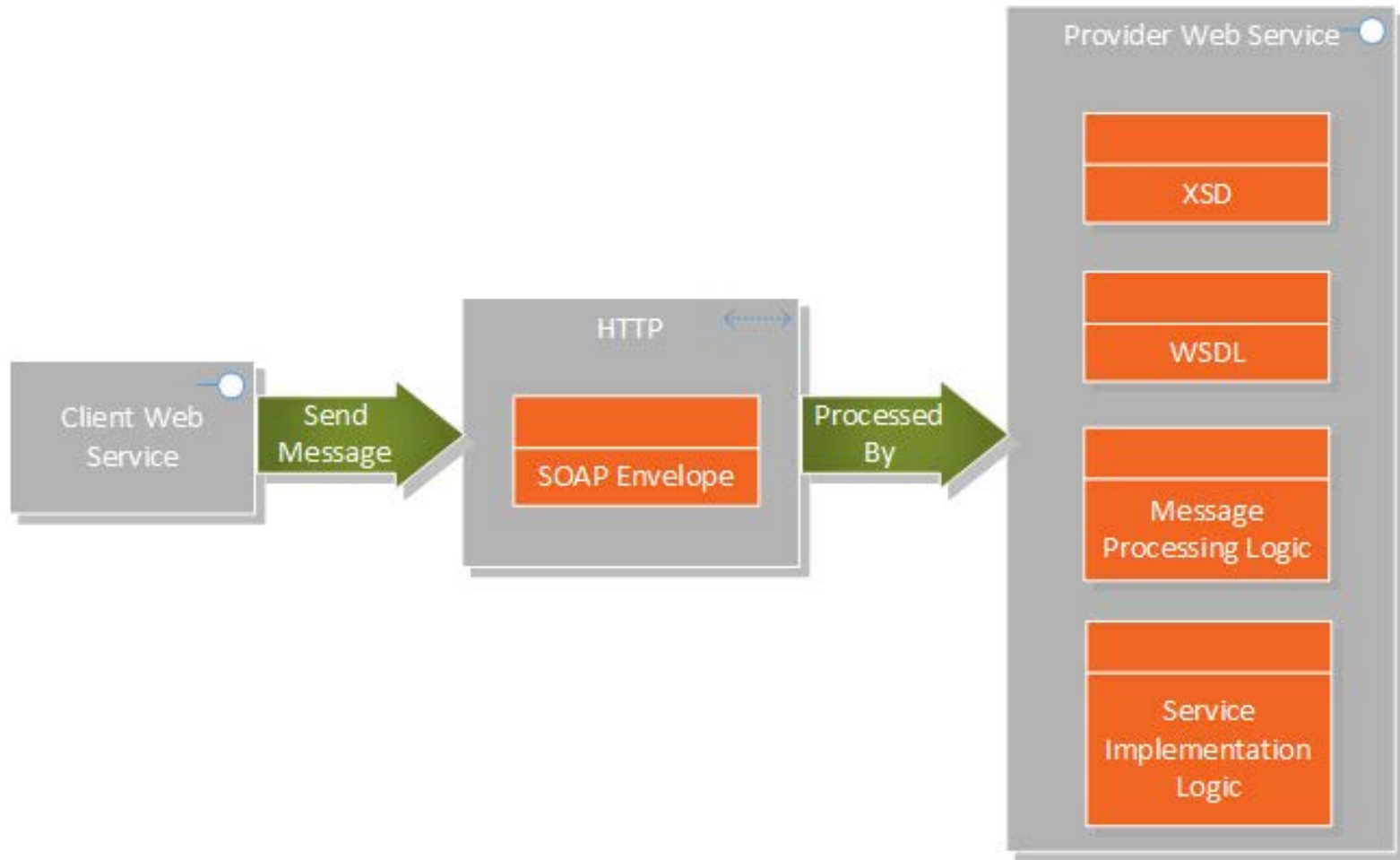
Spring Test

- Supports loading Spring's application context

- Framework agnostic

- Annotations for test case support

jUnit

- **Common framework for supporting Java testing**

- **Full support in IDEs and frameworks**

- **Supports testing at the unit and integration test level**

Testing the Web Service
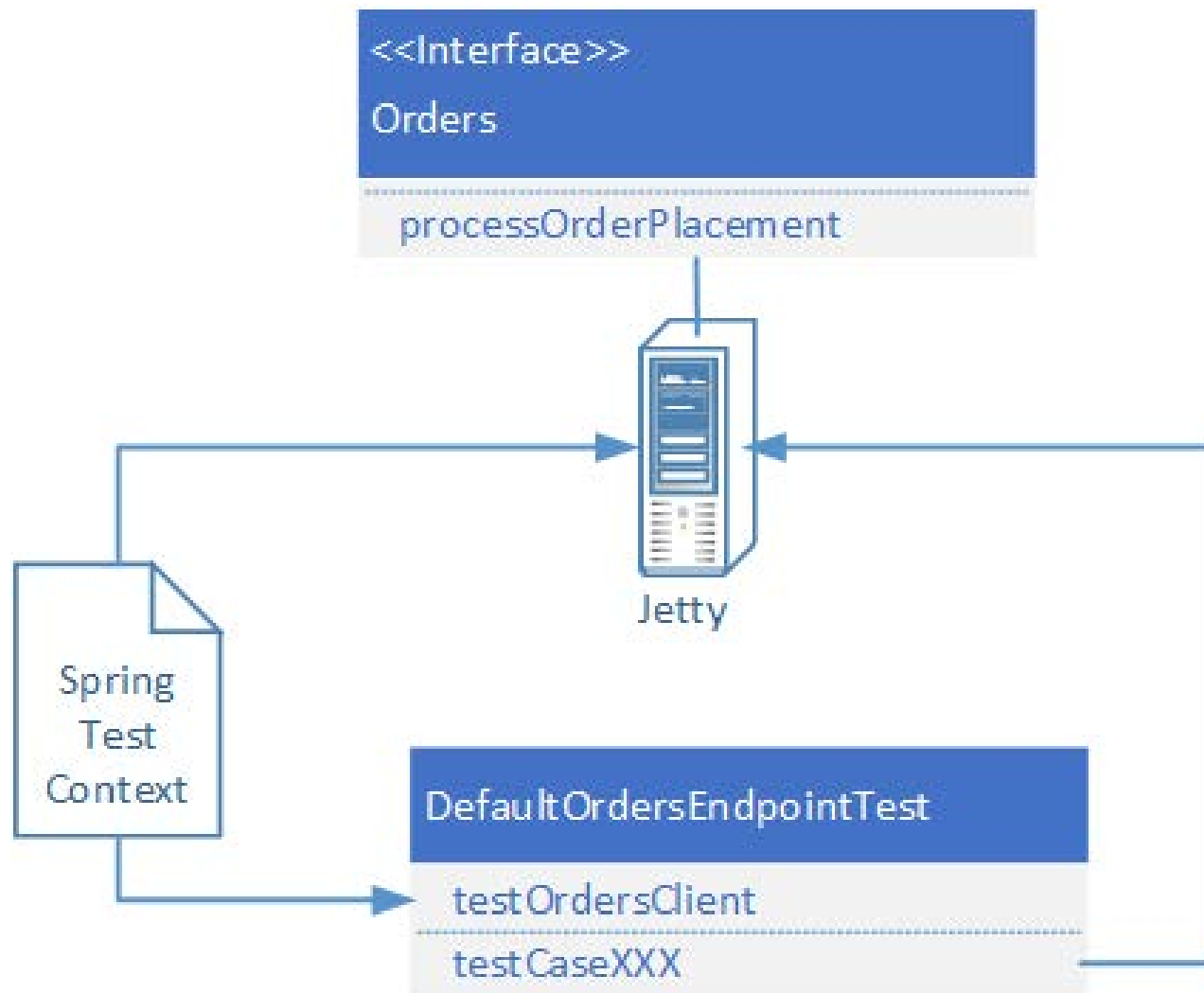
JAX-WS Server Bean Configuration

```xml
<jaxws:server

    id="testOrdersServer"

    address="http://localhost:9000/apache-cxf-jax-ws-
    demo/services/orders"

    serviceBean="#defaultOrdersEndpoint"

    serviceClass="com.pluralsight.service.orders.Orders">

</jaxws:server>
```

JAX-WS Client Bean Configuration

```
<jaxws:client

    id="testOrdersClient"

    address="http://localhost:9000/apache-cxf-jax-ws-
    demo/services/orders"

    serviceClass="com.pluralsight.service.orders.Orders">

</jaxws:client>
```

Test Case Setup

<<Interface>>
Orders

processOrderPlacement

Jetty

Spring Test Context

DefaultOrdersEndpointTest

testOrdersClient

testCaseXXX

Types of Tests

SOAP Fault

- **Contains errors and status information in a standard format**
  - Fault code tells the nature of the error
  - Fault string tells the description of the error

- **Wrapped by CXF into an exception**

Module Summary