# **RabbitMQ for .Net Developers – Part 2**

**Messaging Frameworks** 

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# **Agenda**

- WCF
- Spring
- Summary

**WCF & RabbitMQ** 

## **Overview**

- What is it?
- Why would you use it?
- Messaging Patterns
  - One way
  - Two way RPC
  - Duplex
- WCF Usage
  - Code driven
  - Configuration Driven

### WCF ABC's

- Address
  - □ soap.amp:///<ServiceName>

### Binding

#### Contract

```
<client>
     <endpoint address="soap.amqp:///Test"
          binding="rabbitMQBinding"
          bindingConfiguration="rabbitMQConfig"
          contract="Contract.ITestContract"
          name="TestService" />
</client>
```

```
[ServiceContract]
public interface ITestContract
{
     [OperationContract]
     string TestPing(string message);
}
```

## **Limitations**

- Direct Exchange Only
  - amq.direct
- Dynamic Queues Only
- Non persistent queues
- Two Way Doesn't really work with multiple listeners

**Demo – WCF & RabbitMQ** 

**Spring.net AMQP** 

## **Overview**

- What is it?
- Why use it?
  - Messaging Patterns
    - □ All
  - Usage
    - Configuration Driven
    - □ Removes lots of code

# **Key Elements**

#### Client

- Connection Factory
- Rabbit Template
- Message Converter
- Type Mapper
- Service Gateways

#### Server

- Connection Factory
- Message Listener
- Message Adapter/Handler
- Message Converter
- Type Mapper

**Demo – Spring.net AMQP** 

# **Summary**

### ■ Frameworks → Simplify messaging

- Serialization
- Message Identification
- Message format

### There are many frameworks

- Spring.net AMQP

#### Others to note

- NServiceBus
- EasynetQ
- Rebus
- □ RabbitBus
- Burrow.net
- Mass Transit