Implementing Publish-Subscribe Messaging

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Overview

Point-to-point messaging

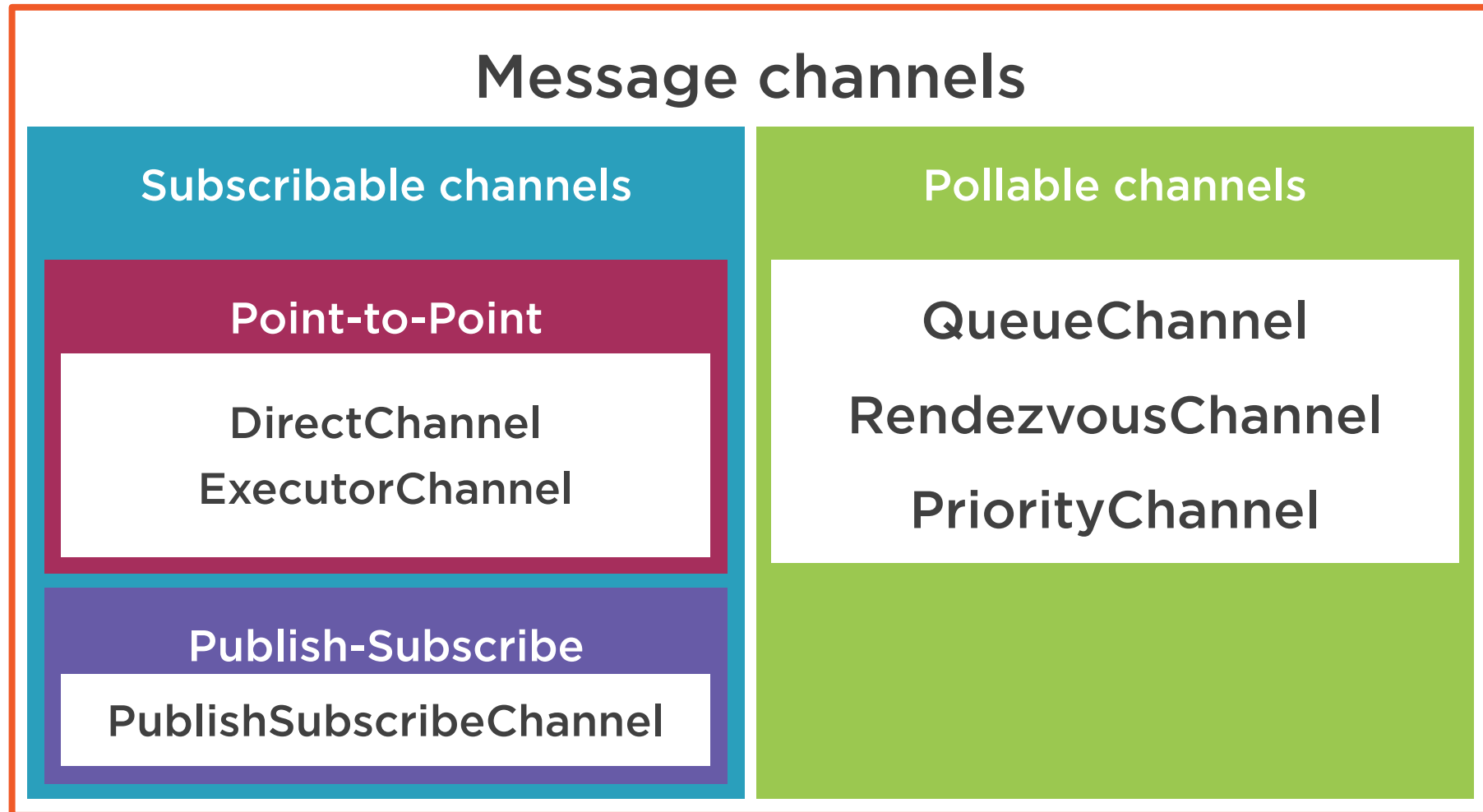**Publish-subscribe messaging**

Extend the demo application
- Add a pub-sub channel
- Add two subscribers

Publish-Subscribe Messaging

Message Channel Implementations

Message channels

Subscribable channels

Point-to-Point

DirectChannel
ExecutorChannel

Publish-Subscribe

PublishSubscribeChannel

Pollable channels

QueueChannel

RendezvousChannel

PriorityChannel

Subscribable Message Channels

Subscribable message channels

Unicasting dispatcher

DirectChannel

ExecutorChannel

Point-to-Point Channel
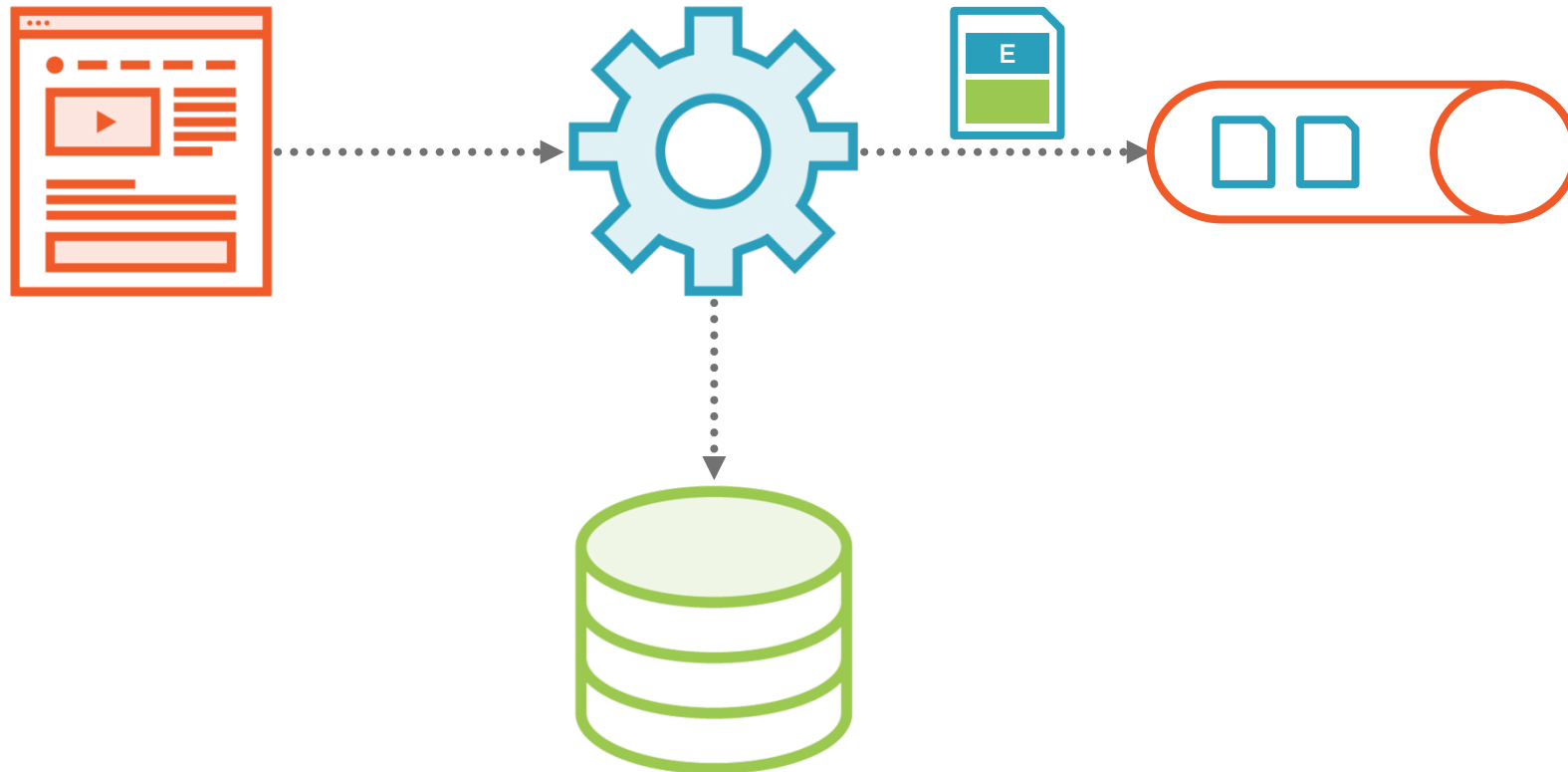
Broadcasting dispatcher
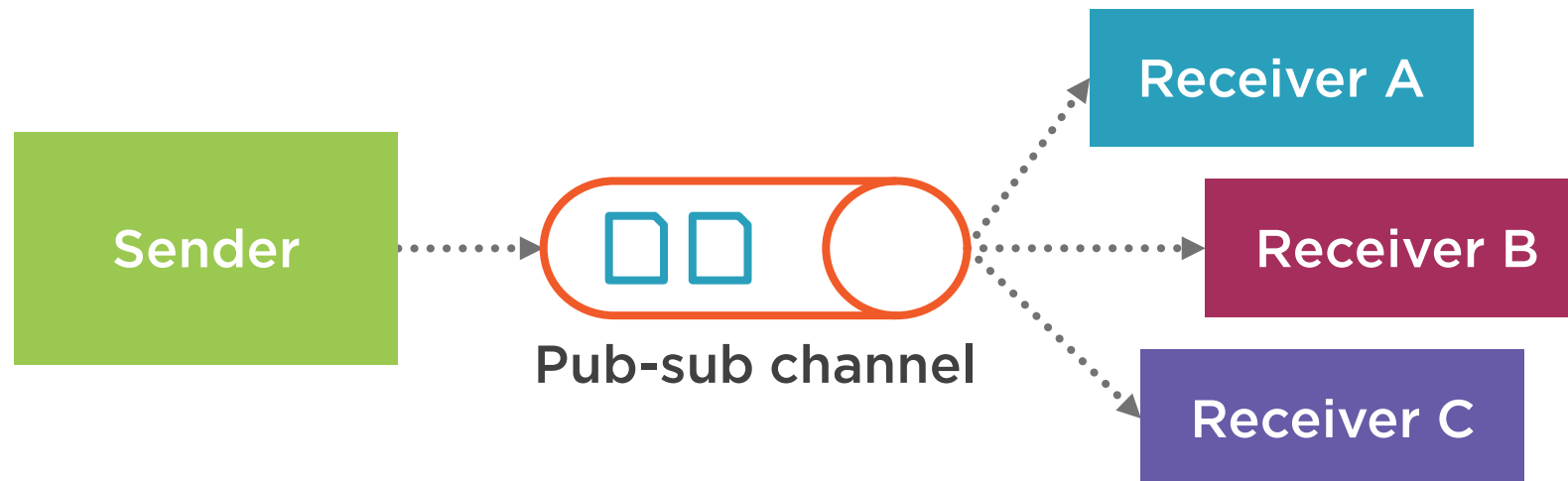
PublishSubscribeChannel

Publish-Subscribe Channel

Publish-Subscribe Channel

Common use case: Event notifications

Publish-Subscribe Channel

Higher degree of decoupling

Message Role Patterns

Command Message — Point-to-point channel

Document Message — Point-to-point channel

Event Message — Publish-subscribe channel

Configuring a Publish-Subscribe Channel

Sending a Registration Confirmation Email

Connecting the Billing System

Summary

Enterprise Integration Patterns

Spring Integration

Point-to-point messaging

RabbitMQ

Publish-subscribe messaging

Message handler chains

Channel adapters

Next: Error handling