

Enterprise Integration Patterns - Messaging Patterns Overview

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class=„bodyText“>This pattern catalog describes 65 integration patterns, collected from many
integration projects since 2002. The patterns provide technology-independent design guidance for
developers and architects to describe and develop robust integration solutions. The inspiration to
document these patterns came when we struggled through multiple integration vendors' product
documentation just to realize later that many of the underlying concepts were quite similar.
</p><h2>Why Enterprise Integration Patterns?</h2> <p class=„bodyText“>Enterprise integration is
too complex to be solved with a simple 'cookbook' approach. Instead, patterns can provide guidance
by documenting the kind of experience that usually lives only in architects' heads: they are accepted
solutions to recurring problems within a given context. Patterns are abstract enough to apply to most
integration technologies, but specific enough to provide hands-on guidance to designers and
architects. Patterns also provide a vocabulary for developers to efficiently describe their solution.</p>
<p class=„bodyText“>Patterns are not 'invented'; they are harvested from repeated use in practice.
If you have built integration solutions, it is likely that you have used some of these patterns, maybe in
slight variations and maybe calling them by a different name. The purpose of this site is not to
„invent“ new approaches, but to present a coherent collection of relevant and proven patterns, which
in total form an integration pattern language.</p> <p class=„bodyText“>Despite the 700+ pages,
our book covers only a fraction of patterns (and the problems to be solved) in the integration space.
The current patterns focus on <a
href=„http://www.enterpriseintegrationpatterns.com/patterns/messaging/Messaging.html“><i>Messa
ging</i></a>, which forms the basis of most other integration patterns. We have started to <a
href=„http://www.enterpriseintegrationpatterns.com/ramblings/72_eipvolumes.html“>harvest more
patterns</a> but are realizing (once again) how much work documenting these patterns really is. So
please stay tuned.</p><h2>Messaging Patterns</h2> <p class=„bodyText“>We have documented
<a href=„http://www.enterpriseintegrationpatterns.com/patterns/messaging/toc.html“>65 messaging
patterns</a>, organized as follows:</p><div readability=„0“>
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<p><a
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href="http://www.enterpriseintegrationpatterns.com/patterns/messaging/Message
ConstructionIntro.html">Message Construct.</a></p>
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[Message](http://www.enterpriseintegrationpatterns.com/patterns/messaging/Message.html)

[Command Message](http://www.enterpriseintegrationpatterns.com/patterns/messaging/CommandMessage.html)

[Document Message](http://www.enterpriseintegrationpatterns.com/patterns/messaging/DocumentMessage.html)

[Event Message](http://www.enterpriseintegrationpatterns.com/patterns/messaging/EventMessage.html)

[Request-Reply](http://www.enterpriseintegrationpatterns.com/patterns/messaging/RequestReply.html)

[Return Address](http://www.enterpriseintegrationpatterns.com/patterns/messaging/ReturnAddress.html)

[Correlation Identifier](http://www.enterpriseintegrationpatterns.com/patterns/messaging/CorrelationIdentifier.html)

[Message Sequence](http://www.enterpriseintegrationpatterns.com/patterns/messaging/MessageSequence.html)

[Message Expiration](http://www.enterpriseintegrationpatterns.com/patterns/messaging/MessageExpiration.html)

[Format Indicator](http://www.enterpriseintegrationpatterns.com/patterns/messaging/FormatIndicator.html)

[Message Routing](http://www.enterpriseintegrationpatterns.com/patterns/messaging/MessageRoutingIntro.html)

[Pipes-and-Filters](http://www.enterpriseintegrationpatterns.com/patterns/messaging/PipesAndFilters.html)

[Message Router](http://www.enterpriseintegrationpatterns.com/patterns/messaging/MessageRouter.html)

[Content-based Router](http://www.enterpriseintegrationpatterns.com/patterns/messaging/ContentBasedRouter.html)

[Message Filter](http://www.enterpriseintegrationpatterns.com/patterns/messaging/Filter.html)

[Dynamic Router](http://www.enterpriseintegrationpatterns.com/patterns/messaging/DynamicRouter.html)

[https://schnipsel.qgelm.de/](http://www.enterpriseintegrationpatterns.com/patterns/messaging/Recipi</p></div><div data-bbox=)

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[Message Endpoint.html">Message Endpoint](#)

[Messaging Gateway.html">Messaging Gateway](#)

[Messaging Mapper.html">Messaging Mapper](#)

[TransactionalClient.html">Transactional Client](#)

[Polling Consumer.html">Polling Consumer](#)

[EventDrivenConsumer.html">Event-driven Consumer](#)

[CompetingConsumers.html">Competing Consumers](#)

[Message Dispatcher.html">Message Dispatcher](#)

[MessageSelector.html">Selective Consumer](#)

[Durable Subscription.html">Durable Subscriber](#)

[IdempotentReceiver.html">Idempotent Receiver](#)

[MessagingAdapter.html">Service Activator](#)

[MessagingChannelsIntro.html">Messaging Channels](#)

[MessageChannel.html">Message Channel](#)

[PointToPointChannel.html">Point-to-Point Channel](#)

[PublishSubscribeChannel.html">Publish-Subscr. Channel](#)

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<ul class=„bodyText“>

Integration Styles document different ways applications can be integrated, providing a historical account of integration technologies. All subsequent patterns follow the <i>Messaging</i> style.

Channel Patterns describe how messages are transported across a <i>Message Channel</i>. These patterns are implemented by most commercial and open source messaging systems.

Message Construction Patterns describe the intent, form and content of the messages that travel across the messaging system. The base pattern for this section is the <i>Message</i> pattern.

Routing Patterns discuss how messages are routed from a sender to the correct receiver. Message routing patterns consume a message from one channel and republish it message, usually without modification, to another channel based on a set of conditions. The patterns presented in this section are specializations of the <i>Message Router</i> pattern.

Transformation Patterns change the content of a message, for example to accommodate different data formats used by the sending and the receiving system. Data may have to be added, taken away or existing data may have to be rearranged. The base pattern for this section is the <i>Message Translator</i>.

Endpoint Patterns describe how messaging system clients produce or consume messages.

System Management Patterns describe the tools to keep a complex message-based system running, including dealing with error conditions, performance bottlenecks and changes in the participating

What Products Implement or Use Enterprise Integration Patterns?

The patterns are not tied to a specific implementation. They help you design better solutions, whether you use any of the following platforms:

- EAI and SOA platforms**, such as [IBM WebSphere MQ](http://www.ibm.com/software/mqseries), [TIBCO](http://www.tibco.com), [Vitria](http://www.vitria.com), [Oracle Service Bus](http://www.oracle.com/technetwork/middleware/service-bus), [WebMethods](http://www.softwareag.com/corporate/products/webmethods_integration/integration/overview/default.asp) (now Software AG), [Microsoft BizTalk](http://www.microsoft.com/biztalk), or [Fiorano](http://www.fiorano.com).
- Open source ESB's** like [Mule ESB](http://www.mulesoft.org), [JBoss Fuse](http://www.jboss.org/products/fuse/overview/), [Open ESB](http://www.open-esb.net/), [WSO2](http://wso2.com/), [Spring Integration](http://projects.spring.io/spring-integration/), or [Talend ESB](http://www.talend.com/)
- Message Brokers** like [ActiveMQ](http://activemq.apache.org), [Apache Kafka](https://kafka.apache.org), or [RabbitMQ](https://www.rabbitmq.com)
- Web service- or REST-based integration**, including [Amazon Simple Queue Service \(SQS\)](http://aws.amazon.com/sqs/) or [Google Cloud Pub/Sub](https://cloud.google.com/pubsub/)
- JMS-based messaging systems**
- Microsoft technologies** like [MSMQ](https://msdn.microsoft.com/en-us/library/ms711472) or [Windows Communication Foundation \(WCF\)](https://msdn.microsoft.com/library/vstudio/ms735119)

How Can You Use the Patterns?

We want to encourage widespread use of the integration pattern language. We have therefore provided a variety of ways to access them:

- Reference**. A [summary of each pattern](http://www.enterpriseintegrationpatterns.com/patterns/messaging/toc.html) from the book is available on this site.
- Read**. Of course, [the book](http://amazon.com/o/asin/0321200683/ref=nosim/enterpriseint-20) *Enterprise Integration Patterns* (Addison-Wesley, ISBN 0321200683) contains the full catalog of patterns with a much more detailed discussion and examples - over 700 pages worth of material. You can also read the full text [on-line on Safari](http://safari.informit.com/0321200683) (with membership).
- Document**. You can create design documents using our icon language by downloading the [Visio stencil](http://www.enterpriseintegrationpatterns.com/patterns/messaging/downloads.html) or using the [OmniGraffle stencil](http://www.graffletopia.com/stencils/137) created by one of our readers.
- Reuse**. You are also welcome to build on top of what we have done. We made the pattern name, icon, problem and solution statements, as well as the sketches (the diagram below the solution statement) available under the [Creative Commons Attribution](http://creativecommons.org/licenses/by/4.0/) license.

In brief, this license allows you share, use and modify these passages as long as you give proper attribution. In our case, this would mean a link to the site and a reference to the book title and authors. If you have questions regarding this requirement, please [contact us](http://www.enterpriseintegrationpatterns.com/patterns/messaging/gregor.html).

- Build**. A number of open-source frameworks, such as [contact us](http://www.enterpriseintegrationpatterns.com/patterns/messaging/gregor.html).

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href="http://mule.codehaus.org/display/MULE/Architecture+Guide">Mule</a>, <a
href="http://activemq.apache.org/camel/">Apache Camel</a>, or <a
href="http://projects.spring.io/spring-integration/">Spring Integration</a>
incorporate our patterns. Now you can not only think in integration
patterns, but also to code in them!</li><li><b>Teach</b>. A number of
professors use our material in lectures. If you are interested in getting
access to material for academic purposes, please <a
href="http://www.enterpriseintegrationpatterns.com/patterns/messaging/gregor
.html">contact us</a>.</li></ul><h2>What about REST / SOA / Web Service
Patterns?</h2>
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The book is now over 10 years old. Yet, the integration problems we have to solve every day remain frustratingly similar. Because the patterns encapsulate design knowledge, this knowledge does not age nearly as quickly as a specific technology. For more on applying the patterns to recent integration technologies like REST or Google Cloud Pub/Sub, follow our Ramblings.</p><h2>Be Part of the Community</h2> <p class="bodyText">We welcome your feedback at: info@enterpriseintegrationpatterns.com.</p><h2>Contributors</h2> <p class="bodyText">The patterns on this site are the result of discussions involving numerous individuals. Kyle Brown (co-author of „Enterprise Java Programming for IBM WebSphere“ and „The Design Patterns Smalltalk Companion“), John Crupi (co-author of „Core J2EE Patterns“), Martin Fowler (author of too many books to mention here), Rachel Reinitz, Mark Weitzel were part of the original discussions. Conrad D'Cruz, Sean Neville, Mike Rettig, Jonathan Simon ended up authoring examples, case studies and a chapter on the future of integration.</p><hr/><p><i>Want to keep up-to-date?</i> Follow My Blog.</p><p><i>Want to read more in depth?</i> Check out My Articles.</p><p><i>Want to see me live?</i> See where I am speaking next.</p><hr/><table border="0" cellpadding="1" cellspacing="2" align="left" width="100%" readability="8"><tr readability="11"><td width="60%">

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Find the full description of this pattern in:<br/><a
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target="_blank">Enterprise Integration Patterns</a><br/>Gregor Hohpe and
Bobby Woolf<br/>ISBN 0321200683<br/>650 pages<br/>Addison-Wesley
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href="https://www.leanpub.com/37things" target="_blank" onclick="ga('send',
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Parts of this page are made available under the <a href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution</a> license. You can reuse the pattern icon, the pattern name, the problem and solution statements (in bold), and the sketch under this license. Other portions of the text, such as text chapters or the full pattern text, are protected by copyright.

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