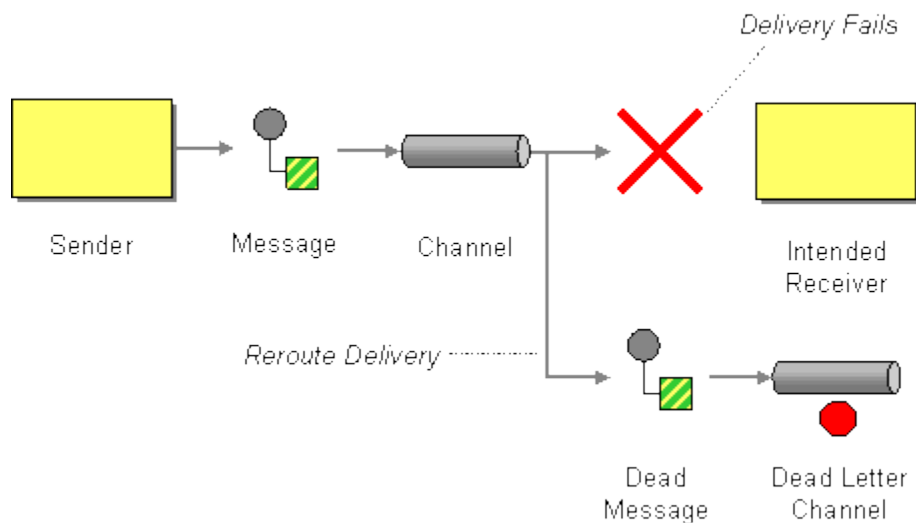


DEAD LETTER CHANNEL AND GUARANTEED DELIVERY

Dead Letter Channel

An enterprise is using *Messaging* to integrate applications.

What will the messaging system do with a message it cannot deliver?



When a messaging system determines that it cannot or should not deliver a message, it may elect to move the message to a *Dead Letter Channel*.

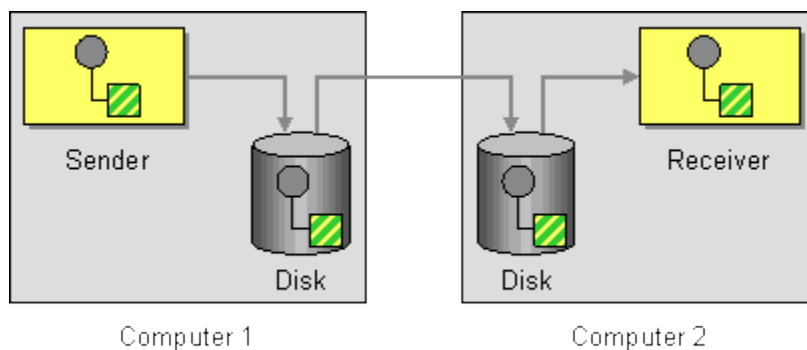
The specific way a *Dead Letter Channel* works depends on the specific messaging system's implementation, if it provides one at all. The channel may be called a "dead message queue" or "dead letter queue." Typically, each machine the messaging system is installed on has its own local *Dead Letter Channel* so that whatever machine a message dies on, it can be moved from one local queue to another without any networking uncertainties.

This also records what machine the message died on. When the messaging system moves the message, it may also record the original channel the message was supposed to be delivered on.

Guaranteed Delivery

An enterprise is using *Messaging* to integrate applications.

How can the sender make sure that a message will be delivered, even if the messaging system fails?



Use *Guaranteed Delivery* to make messages persistent so that they are not lost even if the messaging system crashes.

With *Guaranteed Delivery*, the messaging system uses a built-in data store to persist messages. Each computer the messaging system is installed on has its own data store so that the messages can be stored locally. When the sender sends a message, the send operation does not complete successfully until the message is safely stored in the sender's data store. Subsequently, the message is not deleted from one data store until it is successfully forwarded to and stored in the next data store.

In this way, once the sender successfully sends the message, it is always stored on disk on at least one computer until it is successfully delivered to and acknowledged by the receiver.

Source:

<http://www.enterpriseintegrationpatterns.com/patterns/messaging/GuaranteedMessaging.html>