

## *Abstract*

This work focuses on communication between applications, especially in the case that they are technologically different. The aim is a way for applications to exchange information securely, in abstraction from their differences and physical location. To do this, you need a cross through the technologies / platforms, capable of hiding the specifics of each actor and make transparent communication between the interlocutors. A message bus is presented here as a means of achieving those needs.

The message bus developed in this project has mechanisms for fault tolerance, routing, transformation and security. The routing supports point-to-point and publish-subscribe communications. The message transformation can be made at the level of the data types, format and transport. Regarding security, is access to every application and secure the information exchanged between customers. The implemented solution provides several extensibility points regarding the features, commands and protocols used to communicate with clients.

The message bus implemented was tested and evaluated under different load scenarios that verify compliance of the features developed and allowed to measure their level of service.

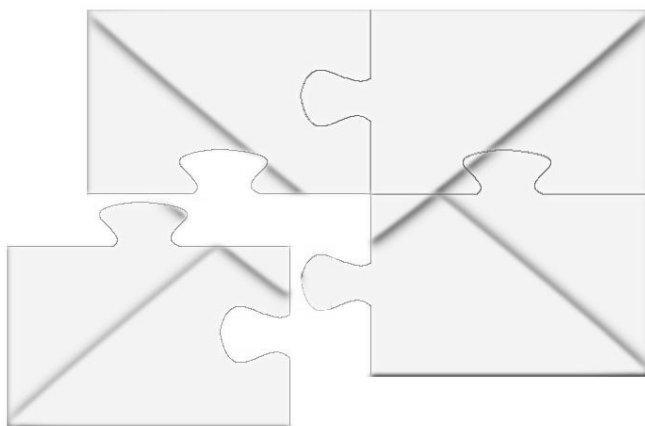
**Keywords:** Integration, middleware, messaging, models and communication protocols



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# Bus de mensagens



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