

# Writing Applications - EntireX Java ACI

This chapter covers the following topics:

- Introduction
  - Required Steps
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## Introduction

Interaction with the API occurs through instantiating objects of different classes, invoking their methods and manipulating their inner state. Not all features are necessary for all applications, depending on whether you are writing a client or a server application. The following is a general list of basic steps you have to perform. For details, see the examples which are delivered as part of EntireX, *Delivered ACI Examples*.

## Required Steps

- Instantiate a `Broker` object. This is the central object you will work with. One object instance represents one session to an EntireX Broker on your network. If you want to work with multiple EntireX Brokers or with multiple sessions, create one object for each session to an EntireX Broker.
- Use the `Broker` object to log on the application to EntireX Broker.
- Instantiate a `BrokerService` object. If you are writing a server application, use the `BrokerService` object to register your service with the EntireX Broker.
- Declare a `BrokerMessage` variable. If you want to send a message, instantiate a new `BrokerMessage` object, complete it with your message and send it using one of the send methods. Messages received from the Broker are received in a newly created `BrokerMessage` object.
- Non-conversational communication is handled by the `BrokerService` and `BrokerMessage` objects. Use the `send`, `sendReceive` and `receive` methods of `BrokerService` for synchronous and asynchronous non-conversational communication. When writing a server, you can use the `reply` method of `BrokerMessage`.
- Conversational communication is handled by the `Conversation` and `BrokerMessage` objects.
- Unit-of-work communication is handled by the `UnitofWork` and `BrokerMessage` objects.
- Perform all your business logic processing on the message contents.
- When finished, end your conversations, deregister your service (if you are writing a server) and log off from EntireX Broker.