Software connectors are used in component-based systems for realization of inter-component communication. A connector generator serves for their generation. It is able to create particular connector based on definitions in a high-level configuration file. At design time the connector generator allows for specifying how components interoperate, at run time created connectors are responsible for communication between application's components as it was specified in the configuration file. They typically utilize some middleware for realization of the communication and they can be supposed as a higher level of abstraction which covers the differences between various underlying middlewares. The aim of the thesis is to extend the existing connector generator [1] and provide support for generating and deploying RMI and CORBA-based connectors and also connectors using other communication styles (particularly messaging). Besides the actual implementation of various middlewares in the connector generator the thesis also addresses some advanced topics like passing references and handling of complex types within remote communication.