Introduction

CGI Studio Courier Overview

- Courier framework implements Model-View-Control architecture pattern.
- It has defined extension points for 3rd party state machine integration.
- Courier is focusing on Message Handling and Data Binding.
- Depends on CGI Studio Candera graphics functionality.

Message Handling

- It defines the information flow in the system.
- Additionally it supports XML based message definition and C++ code generation.
- Static and dynamic message distribution path definition.

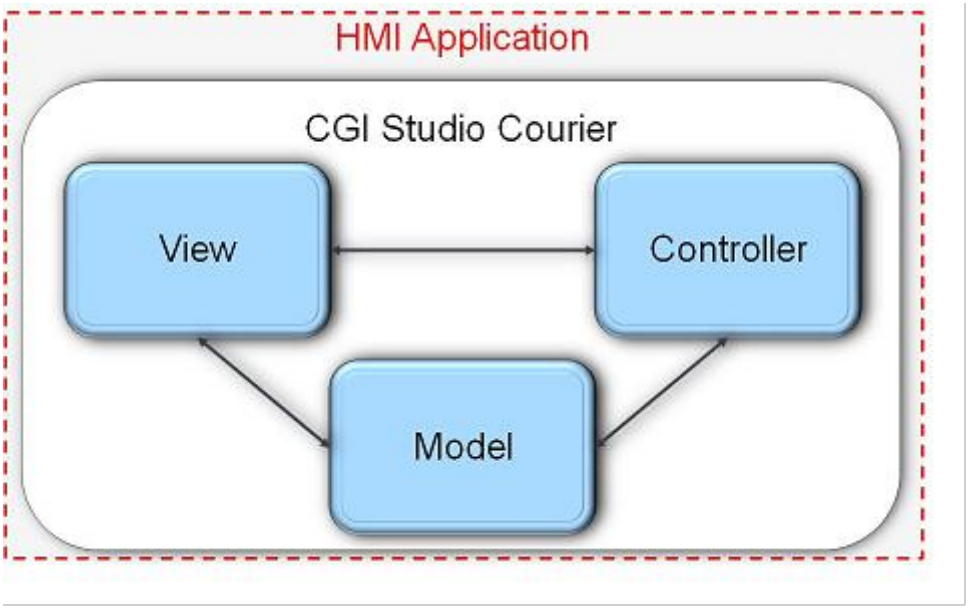
Data Binding

- It binds model data items to visual entities in the view component (i.e. widget properties).
- Changes in the data model trigger automatic update of bound entities in the user interface.

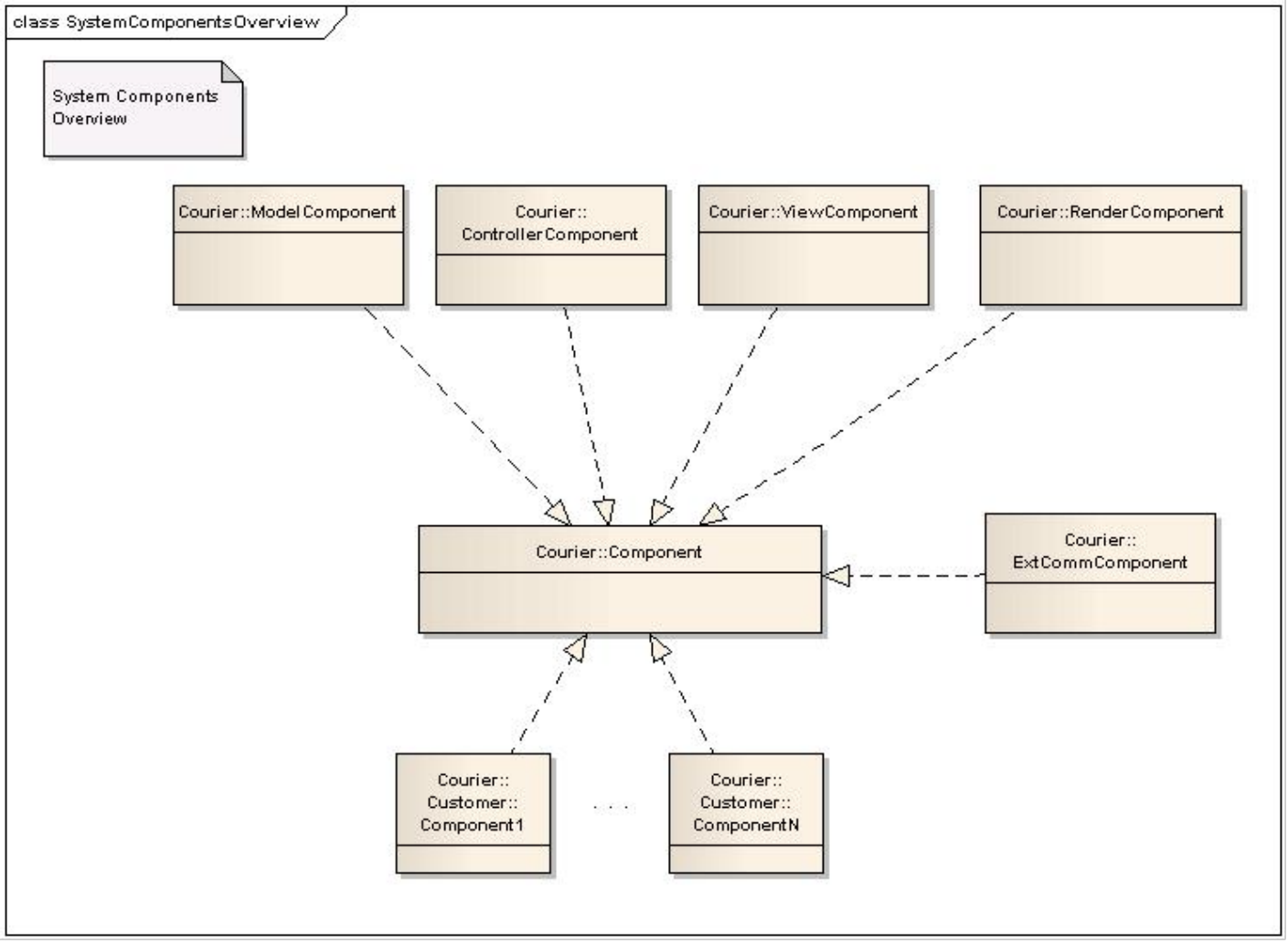
Model-View-Controller

For details on this well known pattern please refer to the following explanation: MVC.

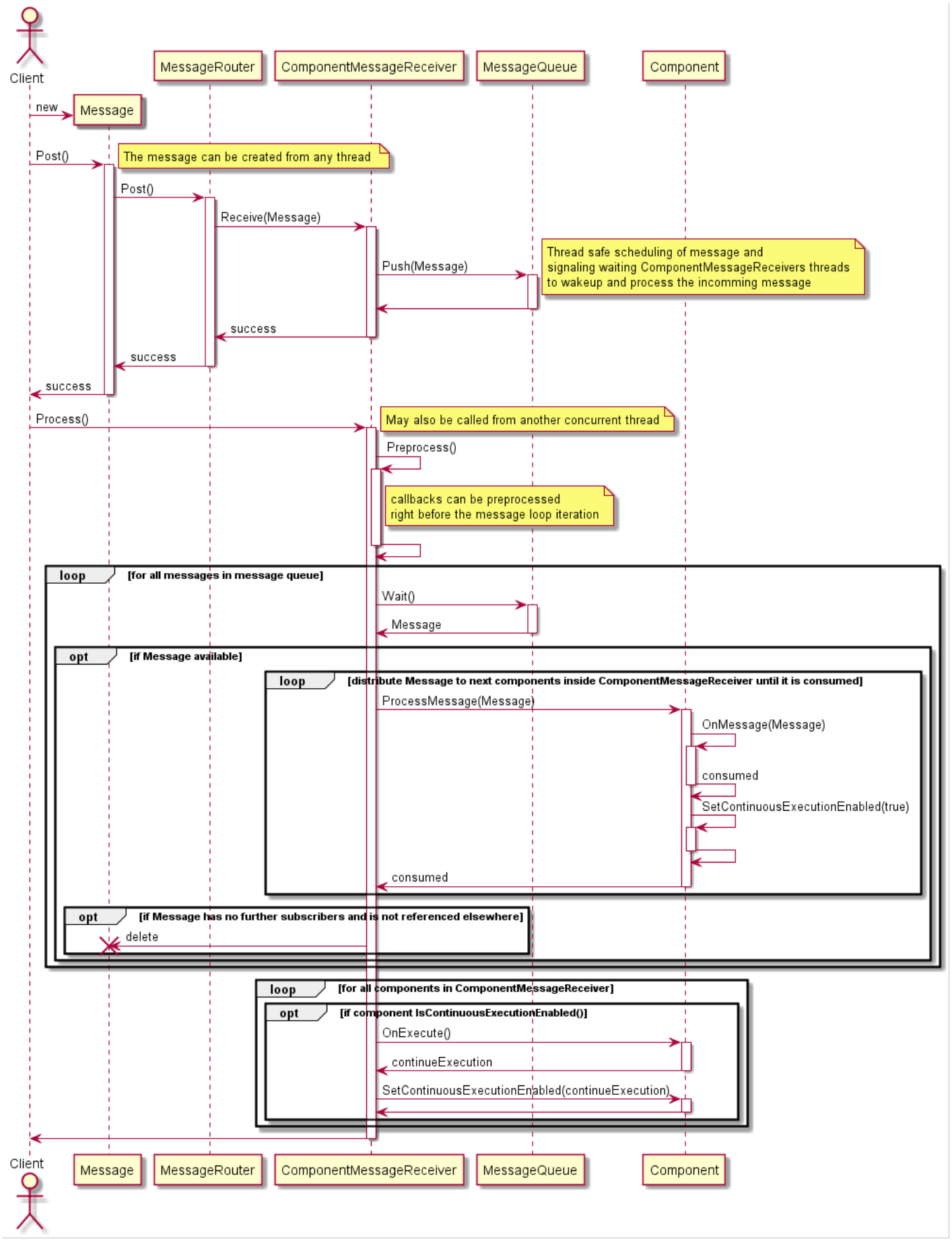
- View
  - Controls CGI Studio Candera rendering engine
  - Supports multiple, hierarchical view objects
- Controller
  - Embedding of state machine
  - Mapping of Courier messages to state machine events
- Model
  - Data management logic (application specific)
  - Generic interface to data items for DataBinding function



The MVC pattern plus additional components are reflected by the following Courier classes:



Courier Message Lifecycle



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