This document is subject to change. The latest version may be found at https://github.com/ashawnbandy/cecs491/tree/master/docs

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CSULB Marine Biology Department Software Project

*Functional Analysis (rev 1)*

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# Class Specification

## Server

* SerialPortManager
* Receiver
* Encoder
* Dispatcher
* Modules

## Modules

* Decoder
* ServerUI
* Persistence

## Events

* RealTimeEvent
* NewReceiver
* UnparsedMessage
* DelReceiver
* ExcepReceiver
* NoteReceiver
* ServerStartUp
* ServerStop
* ServerStopped
* RealTimeEventDecoded

## Client

???

# Class Diagrams

## Server



## Modules



## Application Events

## 

## Client

# Entity Attributes

## Server

### Receiver

Attributes

* public string portName
* public int TTL
* private const int DEFULT\_TTL
* private const int COM\_READ\_TIMEOUT\_DEFAULT
* private const int COM\_READ\_TIMEOUT\_SPIRAL
* private const string VR2C\_COMMAND\_FOLDER
* private Encoder encoder
* private Dispatcher dispatcher
* private int firmwareVersion
* private TextReader textReader
* private int goState
* private int write\_wait
* private static char[] crlf

Methods

* public Receiver(SerialPort serialPort, String portName, Dispatcher dispatcher)
* public void init()
* private void \_write(string text)
* public void write(string command, object[] arguments)
* public void write(string command)
* public void shutdown()
* public async Task run()