Hand-in 5: PS10

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# Introduction

This report concerns the exercise PS10.

# UML / Package Diagrams before changes

Diagrams are created using Enterprise Architect.

## Class diagram

Only public attributes/methods are visible in this class diagram.



## Package diagram



## Scenario for user buying ticket:

Scenario:  
*A user of pay station 1 enters four 25 cent coins and presses 'Buy' to receive a receipt. As the sale is processed the two monitor applications updates their displays with the proper total earning and number of vacant parking lots.*



# PS10 using RMI

The class diagram below shows the changes made to support an RMI implementation of the paystation system.



Important changes are:

* StatusObservable / StatusListener / StatusEvent are placed in a “common” package as they are shared classes (defines paystation monitoring protocol) between client and server.
* Implementation of the interface StatusObservable is moved from PayStation to PayStationImpl to avoid exposing the PayStation on RMI.
* StatusObservable / StatusListener are exported by reference
* Instances of StatusEvent are in reality immutable object and is exported by value.