

# Requirement Specification MoneyService HQ

## Reports from site

All sites in the network should send daily reports to HQ consisting of a List of Transaction using serialization technique. The Transaction class that must reside at HQ and at the various sites should have the following definition:

```
package affix.java.effective.moneyservice;
...

/**
 * This class represents a transaction in the MoneyService system.
 * A transaction is described by Currency, amount, and buy/sell mode.
 * A time stamp is needed to recreate the Order based on stored rates
 * Bookkeeping requires that all transaction also holds a unique id.
 * It is only used internally so default serialization will do
 */
final class Transaction implements java.io.Serializable {

    private static final long serialVersionUID = 1L;

    private final int id;
    private final LocalDateTime timeStamp;
    private final String currencyCode;
    private final int amount;
    private final TransactionMode mode;

    private static int uniqueId = 1;
    ...
}
```

Serialized files should be sent to HQ using a name standard as follows:

Report\_<SITE>\_<DATE>.ser

Example: From site North reporting transactions for 2020-04-06 filename should be:

Report\_NORTH\_2020-04-06.ser

All files should be kept at HQ in separate folders, one for each site

## Statistics

At HQ of MoneyService various statistics should be calculated based on data from sites and presented in format appropriately ordered for easy overview.

An operator should be using a CLI/GUI for handling of available data as stored in the system.

## Deviation

At delivery of the system deviation followed that report files from each site were not kept in separate folders, and only CLI version of the application are available