

MARINA

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# Chapter 1

## Overview

### 1.1 Description

Generated Dec 18 2024 3:09 AM on server dem:TEST2 (IRIS for UNIX (Ubuntu Server 22.04 LTS for x86-64) 2024.1 (Build 262U) Thu Mar 7 2024 15:33:55 EST).



## Chapter 2

# Namespace Index

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## Chapter 3

# Hierarchical Index

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## Chapter 5

# Namespace Documentation

### 5.1 ClearWater Namespace Reference

Documentation for the [ClearWater](#) package.

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- class [AccountsOptions](#)
- class [Address](#)
  - Address of rolec board.*
- class [AddressDetail](#)
- class [AddressForMooring](#)
- class [AddressLog](#)
  - Log of bollard meter readings [Service Routine shmmas450](#).*
- class [Allocation](#)
  - Receipt to [Invoice](#) allocation.*
- class [ApplicationResource](#)
- class [Area](#)
- class [Attribute](#)
- class [AUDDISError](#)
  - A file of all customer bank details in error.*
- class [AUDDISStatus](#)
- class [AUDDISSubmission](#)
- class [Audit](#)
- class [AuditHistory](#)
  - Audit Properties for Persistent Classes.*
- class [AvailableResource](#)
  - Available Resources are stored in here.*
- class [BankAccount](#)
- class [BankDetails](#)
- class [BankingType](#)
- class [Boat](#)
- class [BoatInMooring](#)
- class [BoatMovements](#)
  - A workfile class built by a query from the [Utility](#) class and used for reporting only.*
- class [BoatProperties](#)

- class [BoatType](#)
- class [Bollard](#)
- class [Car](#)
- class [CardType](#)
- class [ChargeCode](#)
- class [ChargeType](#)
- class [ChargeTypeValue](#)
- class [ConstructionMaterial](#)
  - What is the boat made of Wood, fibreglass...*
- class [Contract](#)
- class [ContractCharge](#)
  - Service routine is smmas180.mac*
- class [CreditCardPayment](#)
- class [Currency](#)
- class [CurrentMoorings](#)
  - WorkFile class used for reporting It only contains data when the current Moorings report is run.*
- class [CWUser](#)
- class [DDError](#)
  - Log of Errors during a DD run.*
- class [Diary](#)
- class [DirectDebit](#)
  - Work file for pre-processing direct debit bacs file.*
- class [ECredit](#)
- class [EInvoice](#)
- class [ElectricityWorkFile](#)
  - WorkFile for the import of Electricity readings.*
- class [Email](#)
  - Email options etc.*
- class [EngineConfiguration](#)
- class [EngineType](#)
- class [Event](#)
  - Event to be held at the marina - e.g.*
- class [ExchangeRate](#)
- class [ImportLog](#)
  - Errors generated by the Export of data to Exchequer for Import.*
- class [Invoice](#)
  - This class is really a transaction class.*
- class [InvoiceAnalysis](#)
- class [InvoiceLine](#)
- class [JoiningSource](#)
- class [Keel](#)
- class [Keypad](#)
  - The Keypad on which a licensee will type in their pin number.*
- class [Language](#)
  - Languages used for display text.*
- class [LCDMessage](#)
  - common messages sent to the LCD display*
- class [LeavingReason](#)
- class [Length](#)
- class [Letter](#)
  - Contains letters written in the letter writer interface.*

- class [Licensee](#)
- class [Location](#)
  - Eg.*
- class [MasSystem](#)
- class [MessageText](#)
- class [Mooring](#)
- class [MooringCaption](#)
- class [MooringCharge](#)
  - Charging type for mooring fees.*
- class [Options](#)
  - System settings.*
- class [PaymentLine](#)
- class [PaymentMethod](#)
  - for receipts eg Cash, Cheque etc*
- class [PaymentVatSchedule](#)
- class [PinNumber](#)
  - Pin Number linked to boat.*
- class [PriceBand](#)
- class [PriceBandTariff](#)
- class [Print](#)
- class [PrintHistory](#)
- class [RequiredFields](#)
- class [Resource](#)
  - A discrete resource which can be allocated/deallocated\neg:\nMooring: 101\nBerth: 101/102\nRoom: 408\nClinic: SmithWednesday\nHardware: SN12008989 (Serial Number)  
Generated from Mooring/Berth classes by running ^shmmas140.*
- class [ResourceRightForUserRole](#)
- class [ScheduledPayment](#)
- class [SecurityCard](#)
  - Security or gate cards.*
- class [Service](#)
  - Electricity/Water etc [Service](#) routine shmmas430.*
- class [ServiceCheckOut](#)
  - logs checkouts of services and what is done with outstanding credit*
- class [ServiceForAddress](#)
  - Link between services and bollard addresses.*
- class [ServiceHistory](#)
  - A temporary class to enable a report to show the outstanding balance for serice usage on a bollard.*
- class [ServiceSummary](#)
- class [StandardFunctions](#)
- class [SystemConfiguration](#)
  - Parameters define how [ClearWater](#) behaves.*
- class [SystemMessage](#)
  - Message logging class.*
- class [TransactionLine](#)
- class [TransactionNumber](#)
  - If using distinct numbers for different types of transaction ie credit notes, receipts etc then this Class is used to store the last allocated number.*
- class [TransactionType](#)
- class [Translation](#)
- class [Upload](#)
  - [Upload](#) a file onto server.*
- class [UserFunction](#)

- class [UserRole](#)
- class [UserRoleForCWUser](#)
- class [Utility](#)
  - Collection of 'class methods'.*
- class [Vat](#)
  - value added tax rates*
- class [Visit](#)
- class [Visitor](#)
- class [WaitingList](#)
- class [WaitingListResource](#)
- class [Walk](#)
  - Walks.*
- class [WorkFile](#)

### 5.1.1 Detailed Description

Documentation for the [ClearWater](#) package.

## 5.2 Codis Namespace Reference

Documentation for the [Codis](#) package.

### Classes

- class [ContractChargeDeferred](#)
- class [ContractDeferred](#)
  - A record of deferred income for a contract's mooring fees.*
- class [CustomerBalance](#)
  - Customer Balance at end of day after Sage Extract has been run.*
- class [ExportControl](#)
- class [ExportParameters](#)

### 5.2.1 Detailed Description

Documentation for the [Codis](#) package.

## 5.3 Common Namespace Reference

Documentation for the [Common](#) package.

### Classes

- class [String](#)

### 5.3.1 Detailed Description

Documentation for the [Common](#) package.

## 5.4 MDL Namespace Reference

Documentation for the [MDL](#) package.

### Classes

- class [AgedDebt](#)

### 5.4.1 Detailed Description

Documentation for the [MDL](#) package.

## 5.5 WorkFile Namespace Reference

Documentation for the [WorkFile](#) package.

### Classes

- class [AvailableMooring](#)
- class [PaymentLine](#)
- class [PaymentVatSchedule](#)
- class [ScheduledPayment](#)
- class [ServiceCharge](#)
- class [ServicesBillable](#)

### 5.5.1 Detailed Description

Documentation for the [WorkFile](#) package.



## Chapter 6

# Class Documentation

## 6.1 AccountsOptions Class Reference

Inheritance diagram for AccountsOptions:





## Public Attributes

- [AUDDISFilePath](#)
- [AccountClosureRequireTranExport](#)  
*For validation when closing an Account (Licensee/Customer)*
- [AccountsValidation](#)
- [AdvancedInvoiceType](#)  
*The batch Advanced Invoices Job that generates invoices.*
- [AgedDebtPeriod1](#)
- [AgedDebtPeriod2](#)
- [AgedDebtPeriod3](#)
- [AlbacsVerify](#)  
*Check bank account details for albacs compliance.*
- [AlbacsVerifyPath](#)
- [AlbanyValidateOnDDRun](#)  
*call albany validate on DD run*
- [AllowInvoiceLineFreeText](#)
- [AllowMultipleInvoices](#)  
*For Advanced Contracts.*
- [BACSTFile](#)
- [CreditCancelledContracts](#)  
*When a contract is cancelled should credit notes be created.*
- [CreditCardFilePath](#)
- [Currency](#)
- [DefaultDDPaymentMethod](#)
- [Department](#)
- [InvoiceDecimalPlaces](#)  
*number of decimal places to round to on invoiceline amount*
- [InvoiceDepositSeparately](#)  
*Is the Deposit included in the Advanced Invoices and.*
- [InvoiceLineAllowZero](#)  
*Allow an invoiceline to be 0 as well as +ve or -ve.*
- [InvoiceTotalAllowZero](#)  
*Allow the value of the transaction to be zero.*
- [InvoiceUnconfirmedContracts](#)  
*0 - don't allow invoicing of unconfirmed contracts*
- [MooringChargeCode](#)
- [PhasedPaymentDay](#)

- [PhasedSingleInvoice](#)  
*Show multiple invoicelines on a single phased invoice for the.*
- [PhasedSurchargeChargeCode](#)
- [PhasedSurchargeNominalAc](#)
- [PhasedTransactionType](#)  
*Type of transaction that will be generated when.*
- [Revision](#)
- [ServicesChargeCode](#)
- [SingleInvoiceLocked](#)  
*0 -no*
- [SystemCurrency](#)

## Additional Inherited Members

### 6.1.1 Detailed Description

Deltanji status:

Object	ClearWater.AccountsOptions.CLS/MARINA.0
Component	CLS.ClearWater.AccountsOptions
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.1.2 Member Data Documentation

#### 6.1.2.1 AUDDISFilePath

AUDDISFilePath

#### 6.1.2.2 AccountClosureRequireTranExport

AccountClosureRequireTranExport

For validation when closing an Account (Licensee/Customer)

If this flag is true then all transactions for the customer must be exported before the account can be closed.

If this flag is 0 - then the account can be closed without having exported all the transactions.

### 6.1.2.3 AccountsValidation

AccountsValidation

### 6.1.2.4 AdvancedInvoiceType

AdvancedInvoiceType

The batch Advanced Invoices Job that generates invoices.

of type:

### 6.1.2.5 AgedDebtPeriod1

AgedDebtPeriod1

### 6.1.2.6 AgedDebtPeriod2

AgedDebtPeriod2

### 6.1.2.7 AgedDebtPeriod3

AgedDebtPeriod3

### 6.1.2.8 AlbacsVerify

AlbacsVerify

Check bank account details for albacs compliance.

0 no 1 yes

### 6.1.2.9 AlbacsVerifyPath

AlbacsVerifyPath

### 6.1.2.10 AlbanyValidateOnDDRun

AlbanyValidateOnDDRun

call albany validate on DD run

### 6.1.2.11 AllowInvoiceLineFreeText

AllowInvoiceLineFreeText

### 6.1.2.12 AllowMultipleInvoices

AllowMultipleInvoices

For Advanced Contracts.

### 6.1.2.13 BACSFile

BACSFile

### 6.1.2.14 CreditCancelledContracts

CreditCancelledContracts

When a contract is cancelled should credit notes be created.

for invoices raised against that contract

0 no 1 yes

### 6.1.2.15 CreditCardFilePath

CreditCardFilePath

### 6.1.2.16 Currency

Currency

### 6.1.2.17 DefaultDDPaymentMethod

DefaultDDPaymentMethod

### 6.1.2.18 Department

Department

### 6.1.2.19 InvoiceDecimalPlaces

InvoiceDecimalPlaces

number of decimal places to round to on invoiceline amount

### 6.1.2.20 InvoiceDepositSeparately

InvoiceDepositSeparately

Is the Deposit included in the Advanced Invoices and.

phased invoice batch jobs or is it separate

0 together with batch 1 separate

#### 6.1.2.21 InvoiceLineAllowZero

InvoiceLineAllowZero

Allow an invoiceline to be 0 as well as +ve or -ve.

#### 6.1.2.22 InvoiceTotalAllowZero

InvoiceTotalAllowZero

Allow the value of the transaction to be zero.

#### 6.1.2.23 InvoiceUnconfirmedContracts

InvoiceUnconfirmedContracts

0 - don't allow invoicing of unconfirmed contracts

1 - allow invoicing

#### 6.1.2.24 MooringChargeCode

MooringChargeCode

#### 6.1.2.25 PhasedPaymentDay

PhasedPaymentDay

#### 6.1.2.26 PhasedSingleInvoice

PhasedSingleInvoice

Show multiple invoicelines on a single phased invoice for the.

total mooring fee

ie

Phased payment 1/April £300 Phased payment 1/July £300 Phased payment 1/OCT £300

TOTAL £900

### 6.1.2.27 PhasedSurchargeChargeCode

PhasedSurchargeChargeCode

### 6.1.2.28 PhasedSurchargeNominalAc

PhasedSurchargeNominalAc

### 6.1.2.29 PhasedTransactionType

PhasedTransactionType

Type of transaction that will be generated when.

Phased [Invoice](#) batch job is run

Shepperton - [Invoice](#) Dean & Readhyhoff - Pro-Forma [Invoice](#)

### 6.1.2.30 Revision

Revision

### 6.1.2.31 ServicesChargeCode

ServicesChargeCode

### 6.1.2.32 SingleInvoiceLocked

SingleInvoiceLocked

0 -no

1 - yes

when a single invoice is generated - can it be amended

### 6.1.2.33 SystemCurrency

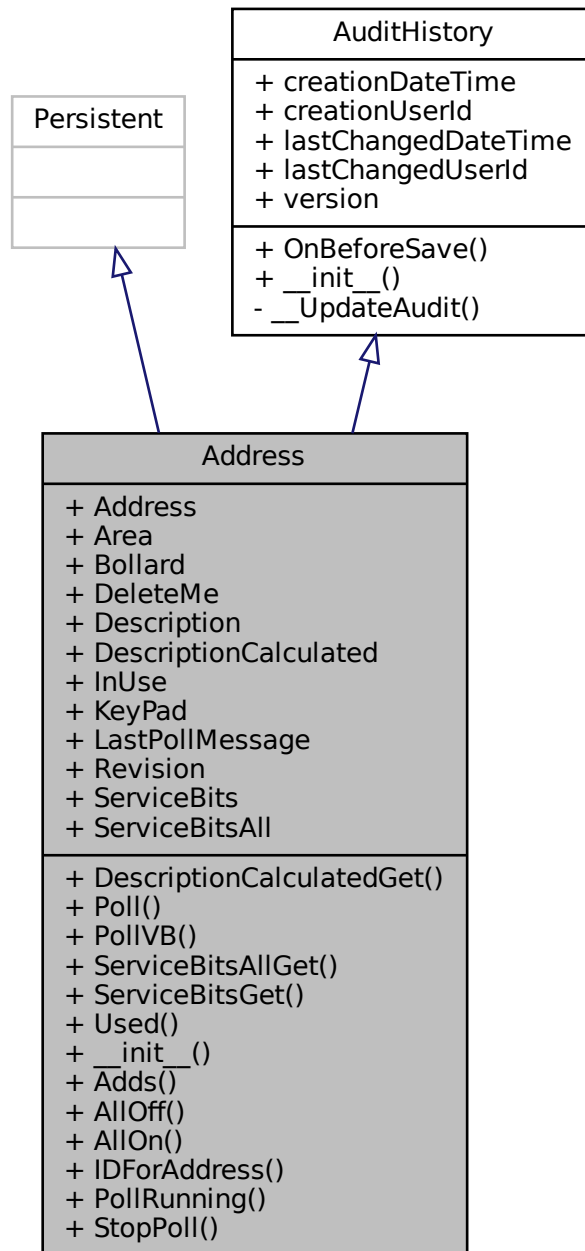
SystemCurrency

## 6.2 Address Class Reference

[Address](#) of rolec board.



Inheritance diagram for Address:



## Public Member Functions

- `_.Library.Status Poll ( _.Library.String S, _.Library.String bits, _.Library.String zeroall, ClearWater.Contract contract)`  
*Polls the address for the usage (returned in array S) with optional [Service](#) bits set (defaults to current services)*
- `_.Library.Numeric ServiceBitsGet ()`  
*Gets [Service](#) Bits set for [Address](#).*

- `_.Library.String Used` (`_.Library.String contractid`)  
*Is this address being used in a contract charge , other than in the current contract.*

## Static Public Member Functions

- `_.Library.List Adds` (`_.Library.String mooring, _.Library.String service`)  
*find all the addresses that can be used for this service in the current mooring*
- `_.Library.Status AllOff` ()  
*All services off for all bollards.*
- `_.Library.Status AllOn` ()  
*Switch all services on for all bollards.*
- `_.Library.Boolean PollRunning` ()  
*This poll relates to the all on and all off methods.*

## Public Attributes

- `Address`  
*The address of the dip switches on the board in the bollard.*
- `Area`
- `Bollard`
- `DeleteMe`
- `Description`  
*Text field to help end users identify the addresses.*
- `DescriptionCalculated`
- `InUse`  
*Whether the address is active or not ie broken.*
- `KeyPad`
- `LastPollMessage`
- `Revision`
- `ServiceBits`  
*Service bits for Rolec Board.*
- `ServiceBitsAll`  
*gets the service bits if all services for the bollard are to be switched on*

### 6.2.1 Detailed Description

`Address` of rolec board.

Deltanji status:

Object	ClearWater.Address.CLS/MARINA.0
Component	CLS.ClearWater.Address
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.2.2 Member Function Documentation

### 6.2.2.1 PollRunning()

```
_.Library.Boolean PollRunning ( ) [static]
```

This poll relates to the all on and all off methods.

is the poll running 1 yes 0 no

### 6.2.2.2 Used()

```
_.Library.String Used (
    _.Library.String contractid )
```

Is this address being used in a contract charge , other than in the current contract.

0 not in use  
1 in use

## 6.2.3 Member Data Documentation

### 6.2.3.1 Address

[Address](#)

The address of the dip switches on the board in the bollard.

### 6.2.3.2 Area

[Area](#)

### 6.2.3.3 Bollard

[Bollard](#)

#### 6.2.3.4 DeleteMe

DeleteMe

#### 6.2.3.5 Description

Description

Text field to help end users identify the addresses.

#### 6.2.3.6 DescriptionCalculated

DescriptionCalculated

#### 6.2.3.7 InUse

InUse

Whether the address is active or not ie broken.

active=true broken etc = false

#### 6.2.3.8 KeyPad

KeyPad

#### 6.2.3.9 LastPollMessage

LastPollMessage

### 6.2.3.10 Revision

Revision

### 6.2.3.11 ServiceBits

ServiceBits

[Service](#) bits for Rolec Board.

Takes into account what is on and off

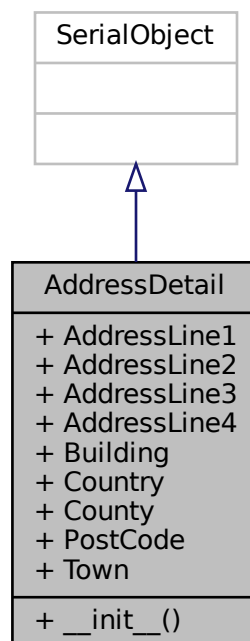
### 6.2.3.12 ServiceBitsAll

ServiceBitsAll

gets the service bits if all services for the bollard are to be switched on

## 6.3 AddressDetail Class Reference

Inheritance diagram for AddressDetail:



## Public Attributes

- [AddressLine1](#)
- [AddressLine2](#)
- [AddressLine3](#)
- [AddressLine4](#)
- [Building](#)
- [Country](#)
- [County](#)
- [PostCode](#)
- [Town](#)

### 6.3.1 Detailed Description

Deltanji status:

Object	ClearWater.AddressDetail.CLS/MARINA.0
Component	CLS.ClearWater.AddressDetail
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.3.2 Member Data Documentation

#### 6.3.2.1 AddressLine1

`AddressLine1`

#### 6.3.2.2 AddressLine2

`AddressLine2`

### 6.3.2.3 AddressLine3

AddressLine3

### 6.3.2.4 AddressLine4

AddressLine4

### 6.3.2.5 Building

Building

### 6.3.2.6 Country

Country

### 6.3.2.7 County

County

### 6.3.2.8 PostCode

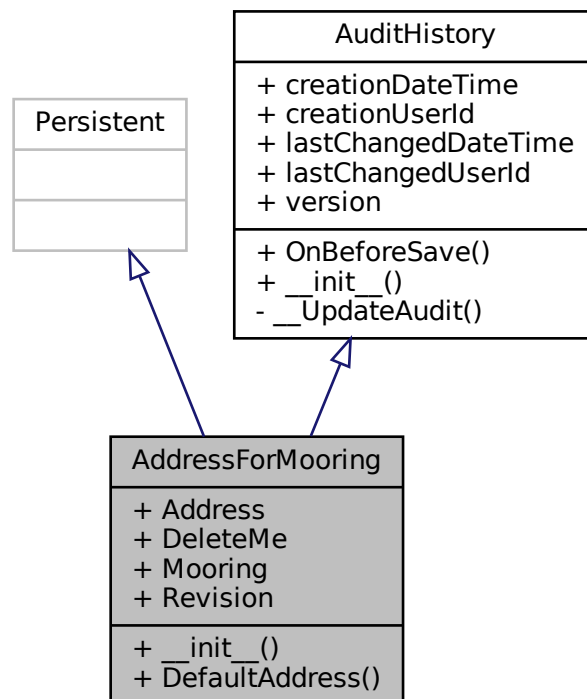
PostCode

### 6.3.2.9 Town

Town

## 6.4 AddressForMooring Class Reference

Inheritance diagram for AddressForMooring:



### Public Attributes

- [Address](#)
- [DeleteMe](#)
- [Mooring](#)
- [Revision](#)



## Additional Inherited Members

### 6.4.1 Detailed Description

Deltanji status:

Object	ClearWater.AddressForMooring.CLS/MARINA.0
Component	CLS.ClearWater.AddressForMooring
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.4.2 Member Data Documentation

#### 6.4.2.1 Address

[Address](#)

#### 6.4.2.2 DeleteMe

DeleteMe

#### 6.4.2.3 Mooring

[Mooring](#)

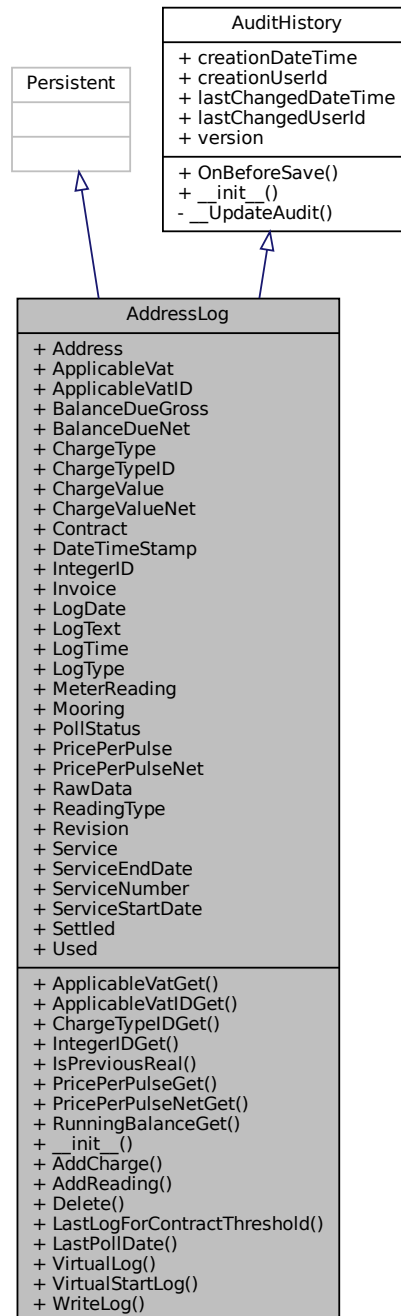
#### 6.4.2.4 Revision

Revision

## 6.5 AddressLog Class Reference

Log of bollard meter readings [Service Routine shmmas450](#).

Inheritance diagram for AddressLog:



### Public Member Functions

- `__Library.Float IntegerIDGet ()`

*For VB report collation on date.*

- `_.Library.Boolean` [IsPreviousReal](#) ()  
*Is there a previous real reading for this contract.*

## Static Public Member Functions

- `_.Library.String` [LastLogForContractThreshold](#) (`_.Library.String` contractid, `_.Library.String` threshold)  
*Get the last [AddressLog](#) record ID for the contract.*
- [VirtualLog](#) (`_.Library.String` addresslogid, `_.Library.String` invoiceid, `_.Library.String` readingtype)  
*Create a new address log to reflect the balance after a payment has made.*
- `_.Library.Status` [VirtualStartLog](#) (`_.Library.String` invoiceid)  
*Following the creation of a prepayment for services, if there is no existing [AddressLog](#) then make a start.*

## Public Attributes

- [Address](#)
- [ApplicableVat](#)
- [ApplicableVatID](#)
- [BalanceDueGross](#)
- [BalanceDueNet](#)
- [ChargeType](#)
- [ChargeTypeID](#)
- [ChargeValue](#)
- [ChargeValueNet](#)
- [Contract](#)  
*The licensee using power when this reading was taken.*
- [DateTimeStamp](#)
- [IntegerID](#)
- [Invoice](#)
- [LogDate](#)
- [LogText](#)
- [LogTime](#)
- [LogType](#)  
*The type of reading.*

- [MeterReading](#)
- [Mooring](#)
- [PollStatus](#)
- [PricePerPulse](#)
- [PricePerPulseNet](#)
- [RawData](#)
- [ReadingType](#)
  - S,E,N.*
- [Revision](#)
- [Service](#)
- [ServiceEndDate](#)
- [ServiceNumber](#)
- [ServiceStartDate](#)
- [Settled](#)
- [Used](#)

*The number of units used since the last record.*

### 6.5.1 Detailed Description

Log of bollard meter readings [Service](#) Routine shmmas450.

Deltanji status:

Object	ClearWater.AddressLog.CLS/MARINA.0
Component	CLS.ClearWater.AddressLog
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.5.2 Member Function Documentation

#### 6.5.2.1 VirtualStartLog()

```

_.Library.Status VirtualStartLog (
    _.Library.String invoiceid ) [static]

```

Following the creation of a prepayment for services, if there is no existing [AddressLog](#) then make a start.

record. Initially set the MeterReading to 0, but when the first Real reding is got do not count the difference between 0 and the new reading as used units, start from the new reading.

### 6.5.3 Member Data Documentation

#### 6.5.3.1 Address

[Address](#)

#### 6.5.3.2 ApplicableVat

`ApplicableVat`

#### 6.5.3.3 ApplicableVatID

`ApplicableVatID`

#### 6.5.3.4 BalanceDueGross

`BalanceDueGross`

#### 6.5.3.5 BalanceDueNet

`BalanceDueNet`

### 6.5.3.6 ChargeType

[ChargeType](#)

### 6.5.3.7 ChargeTypeID

ChargeTypeID

### 6.5.3.8 ChargeValue

ChargeValue

### 6.5.3.9 ChargeValueNet

ChargeValueNet

### 6.5.3.10 Contract

[Contract](#)

The licensee using power when this reading was taken.

### 6.5.3.11 DateTimeStamp

DateTimeStamp

### 6.5.3.12 IntegerID

IntegerID

### 6.5.3.13 Invoice

[Invoice](#)

### 6.5.3.14 LogDate

LogDate

### 6.5.3.15 LogText

LogText

### 6.5.3.16 LogTime

LogTime

### 6.5.3.17 LogType

LogType

The type of reading.

When the meter reading is read then create a Real reading.

When an [Invoice](#) is raised by hand against Real readings then automatically create a Virtual reading to hold the balance due after the invoice has been paid.

when the invoices are raised by the batch job then the balance is paid in full. The new [AddressLog](#) entry is a Real Final entry.

Real Virtual

### 6.5.3.18 MeterReading

MeterReading

### 6.5.3.19 Mooring

[Mooring](#)

### 6.5.3.20 PollStatus

PollStatus

### 6.5.3.21 PricePerPulse

PricePerPulse

### 6.5.3.22 PricePerPulseNet

PricePerPulseNet

### 6.5.3.23 RawData

RawData



#### 6.5.3.24 ReadingType

ReadingType

S,E,N.

S Start E End N normal

When calculating how much the licensee owes

go back to the last S - type reading after an E type reading the licensee will pay up what is due then there must be another S type reading before the licensee can be charged again

#### 6.5.3.25 Revision

Revision

#### 6.5.3.26 Service

Service

#### 6.5.3.27 ServiceEndDate

ServiceEndDate

#### 6.5.3.28 ServiceNumber

ServiceNumber

### 6.5.3.29 ServiceStartDate

ServiceStartDate

### 6.5.3.30 Settled

Settled

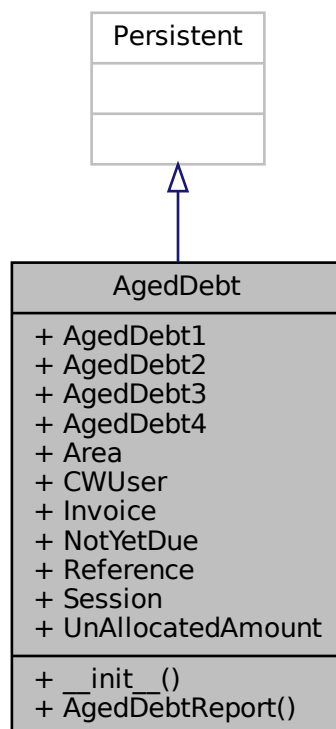
### 6.5.3.31 Used

Used

The number of units used since the last record.

## 6.6 AgedDebt Class Reference

Inheritance diagram for AgedDebt:



## Public Attributes

- [AgedDebt1](#)
- [AgedDebt2](#)
- [AgedDebt3](#)
- [AgedDebt4](#)
- [Area](#)
  - *Site.*
- [CWUser](#)
- [Invoice](#)
- [NotYetDue](#)
- [Reference](#)
- [Session](#)
- [UnAllocatedAmount](#)

### 6.6.1 Detailed Description

Deltanji status:

Object	MDL.AgedDebt.CLS/MARINA.0
Component	CLS.MDL.AgedDebt
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.6.2 Member Data Documentation

#### 6.6.2.1 AgedDebt1

AgedDebt1

### 6.6.2.2 AgedDebt2

AgedDebt2

### 6.6.2.3 AgedDebt3

AgedDebt3

### 6.6.2.4 AgedDebt4

AgedDebt4

### 6.6.2.5 Area

Area

Site.

### 6.6.2.6 CWUser

CWUser

### 6.6.2.7 Invoice

Invoice

### 6.6.2.8 NotYetDue

NotYetDue

### 6.6.2.9 Reference

Reference

### 6.6.2.10 Session

Session

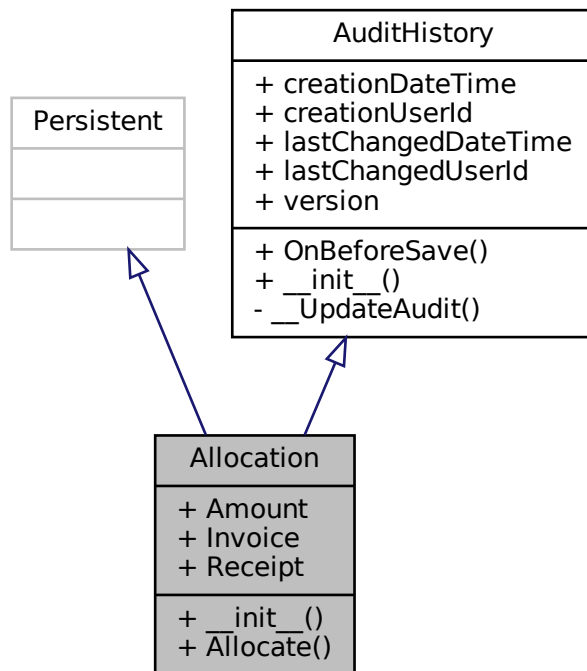
### 6.6.2.11 UnAllocatedAmount

UnAllocatedAmount

## 6.7 Allocation Class Reference

Receipt to [Invoice](#) allocation.

Inheritance diagram for Allocation:



## Public Attributes

- [Amount](#)
- [Invoice](#)
- [Receipt](#)

## Additional Inherited Members

### 6.7.1 Detailed Description

Receipt to [Invoice](#) allocation.

Deltanji status:

Object	ClearWater.Allocation.CLS/MARINA.0
Component	CLS.ClearWater.Allocation
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.7.2 Member Data Documentation

### 6.7.2.1 Amount

Amount

### 6.7.2.2 Invoice

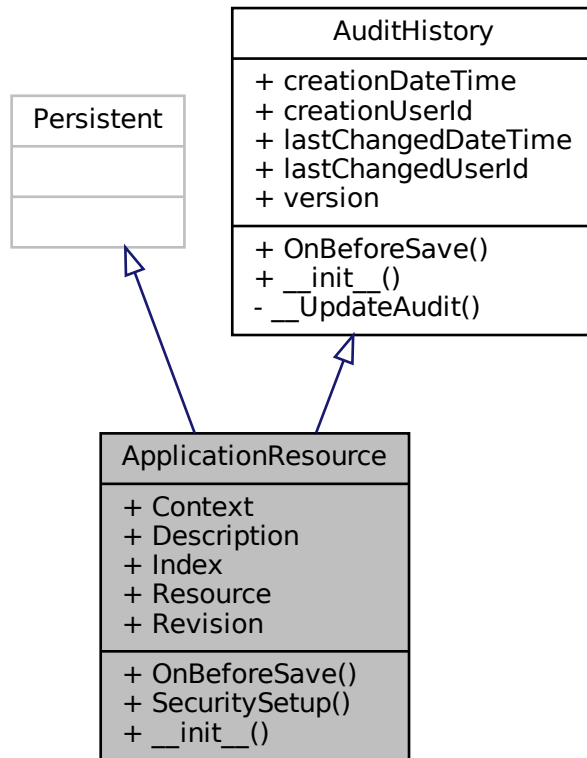
[Invoice](#)

### 6.7.2.3 Receipt

Receipt

## 6.8 ApplicationResource Class Reference

Inheritance diagram for ApplicationResource:



### Public Member Functions

- `_.Library.Status OnBeforeSave (_.Library.Boolean insert)`  
*If this method is overridden then you must call `..UpdateAudit()` yourself.*

### Public Attributes

- [Context](#)
- [Description](#)
- [Index](#)
- [Resource](#)
- [Revision](#)



## 6.8.1 Detailed Description

Deltanji status:

Object	ClearWater.ApplicationResource.CLS/MARINA.0
Component	CLS.ClearWater.ApplicationResource
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.8.2 Member Data Documentation

### 6.8.2.1 Context

Context

### 6.8.2.2 Description

Description

### 6.8.2.3 Index

Index

### 6.8.2.4 Resource

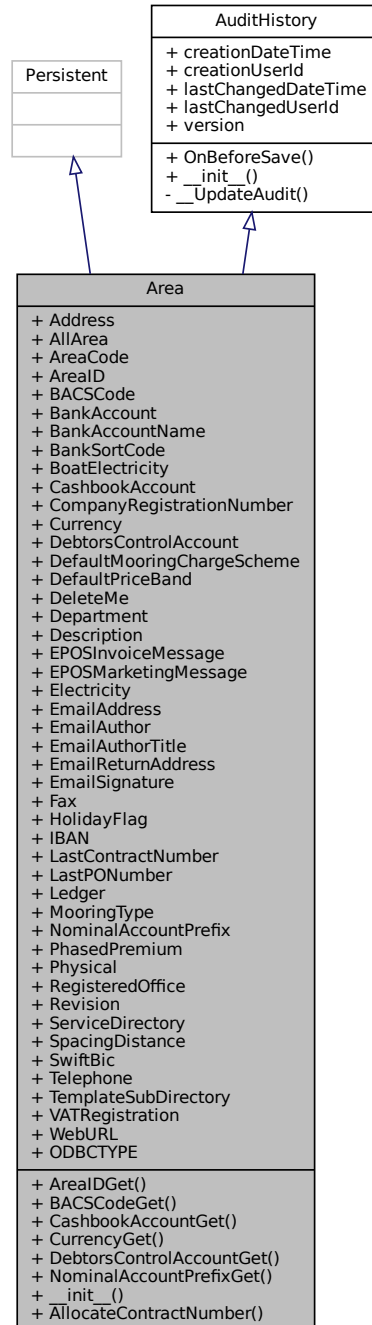
[Resource](#)

### 6.8.2.5 Revision

Revision

## 6.9 Area Class Reference

Inheritance diagram for Area:



### Public Member Functions

- `_.Library.String ArealDGet ()`  
*Get the row id.*

## Public Attributes

- [Address](#)
- [AllArea](#)  
*used by single site marinas to indicate that all other areas are contained within this area*
- [AreaCode](#)  
*Description of [Area](#) (can either be a physical or logical)*
- [AreaID](#)  
*row id*
- [BACSCode](#)
- [BankAccount](#)
- [BankAccountName](#)
- [BankSortCode](#)
- [BoatElectricity](#)
- [CashbookAccount](#)
- [CompanyRegistrationNumber](#)
- [Currency](#)
- [DebtorsControlAccount](#)
- [DefaultMooringChargeScheme](#)
- [DefaultPriceBand](#)  
*The default price band for all moorings in this area.*
- [DeleteMe](#)
- [Department](#)
- [Description](#)
- [EPOSInvoiceMessage](#)
- [EPOSMarketingMessage](#)
- [Electricity](#)
- [EmailAddress](#)
- [EmailAuthor](#)
- [EmailAuthorTitle](#)
- [EmailReturnAddress](#)

- [EmailSignature](#)
- [Fax](#)
- [HolidayFlag](#)  
*Is the [Area](#) the Holiday [Area](#) ?*
- [IBAN](#)  
*International Banking Number.*
- [LastContractNumber](#)
- [LastPONumber](#)
- [Ledger](#)
- [MooringType](#)
- [NominalAccountPrefix](#)
- [PhasedPremium](#)
- [Physical](#)  
*Is this a physical or virtual [Area](#).*
- [RegisteredOffice](#)
- [Revision](#)
- [ServiceDirectory](#)  
*Directory to create/import worksheet of electricity readings.*
- [SpacingDistance](#)  
*For linear berths, the minimum distance between boats.*
- [SwiftBic](#)  
*Overseas Bank AccountNumber.*
- [Telephone](#)
- [TemplateSubDirectory](#)
- [VATRegistration](#)
- [WebURL](#)

### 6.9.1 Detailed Description

Deltanji status:

Object	ClearWater.Area.CLS/MARINA.0
Component	CLS.ClearWater.Area
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.9.2 Member Data Documentation

### 6.9.2.1 Address

[Address](#)

### 6.9.2.2 AllArea

AllArea

used by single site marinas to indicate that all other areas are contained within this area

### 6.9.2.3 AreaCode

AreaCode

Description of [Area](#) (can either be a physical or logical)

### 6.9.2.4 AreaID

AreaID

row id

### 6.9.2.5 BACSCode

BACSCode

### 6.9.2.6 BankAccount

BankAccount

### 6.9.2.7 BankAccountName

BankAccountName

### 6.9.2.8 BankSortCode

BankSortCode

### 6.9.2.9 BoatElectricity

BoatElectricity

### 6.9.2.10 CashbookAccount

CashbookAccount

### 6.9.2.11 CompanyRegistrationNumber

CompanyRegistrationNumber

### 6.9.2.12 Currency

Currency

### 6.9.2.13 DebtorsControlAccount

DebtorsControlAccount

### 6.9.2.14 DefaultMooringChargeScheme

DefaultMooringChargeScheme

### 6.9.2.15 DefaultPriceBand

DefaultPriceBand

The default price band for all moorings in this area.

### 6.9.2.16 DeleteMe

DeleteMe

### 6.9.2.17 Department

Department



### 6.9.2.18 Description

Description

### 6.9.2.19 EPOSInvoiceMessage

EPOSInvoiceMessage

### 6.9.2.20 EPOSMarketingMessage

EPOSMarketingMessage

### 6.9.2.21 Electricity

Electricity

### 6.9.2.22 EmailAddress

EmailAddress

### 6.9.2.23 EmailAuthor

EmailAuthor

#### 6.9.2.24 EmailAuthorTitle

EmailAuthorTitle

#### 6.9.2.25 EmailReturnAddress

EmailReturnAddress

#### 6.9.2.26 EmailSignature

EmailSignature

#### 6.9.2.27 Fax

Fax

#### 6.9.2.28 HolidayFlag

HolidayFlag

Is the [Area](#) the Holiday [Area](#) ?

This is not a real area but a mechanism which allows boats to be marked as out of the marina.

#### 6.9.2.29 IBAN

IBAN

International Banking Number.

**6.9.2.30 LastContractNumber**

LastContractNumber

**6.9.2.31 LastPONumber**

LastPONumber

**6.9.2.32 Ledger**

Ledger

**6.9.2.33 MooringType**

MooringType

**6.9.2.34 NominalAccountPrefix**

NominalAccountPrefix

**6.9.2.35 PhasedPremium**

PhasedPremium

### 6.9.2.36 Physical

Physical

Is this a physical or virtual [Area](#).

1 Physical 0 Virtual

ie Holding or Holiday are Virtual

### 6.9.2.37 RegisteredOffice

RegisteredOffice

### 6.9.2.38 Revision

Revision

### 6.9.2.39 ServiceDirectory

ServiceDirectory

Directory to create/import worksheet of electricity readings.

### 6.9.2.40 SpacingDistance

SpacingDistance

For linear berths, the minimum distance between boats.

### 6.9.2.41 SwiftBic

SwiftBic

Overseas Bank AccountNumber.

#### 6.9.2.42 Telephone

Telephone

#### 6.9.2.43 TemplateSubDirectory

TemplateSubDirectory

#### 6.9.2.44 VATRegistration

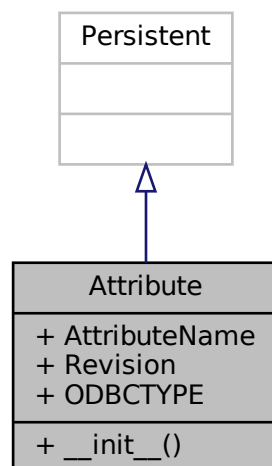
VATRegistration

#### 6.9.2.45 WebURL

WebURL

## 6.10 Attribute Class Reference

Inheritance diagram for Attribute:



## Public Attributes

- [AttributeName](#)
- [Revision](#)

### 6.10.1 Detailed Description

Deltanji status:

Object	ClearWater.Attribute.CLS/MARINA.0
Component	CLS.ClearWater.Attribute
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.10.2 Member Data Documentation

#### 6.10.2.1 AttributeName

AttributeName

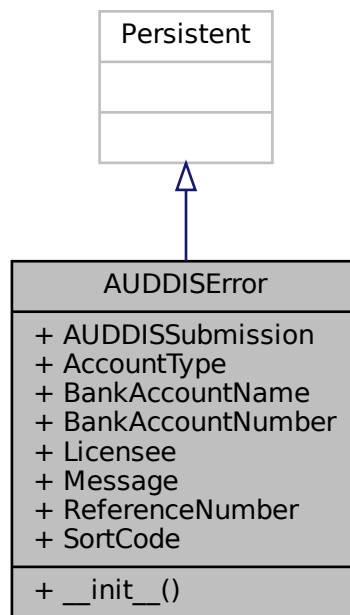
#### 6.10.2.2 Revision

Revision

## 6.11 AUDDISError Class Reference

A file of all customer bank details in error.

Inheritance diagram for AUDDISError:



### Public Attributes

- [AUDDISSubmission](#)
- [AccountType](#)
- [BankAccountName](#)
- [BankAccountNumber](#)
- [Licensee](#)
- [Message](#)
- [ReferenceNumber](#)
- [SortCode](#)

### 6.11.1 Detailed Description

A file of all customer bank details in error.

This file normally is cleared down prior to each new run.

Deltanji status:

Object	ClearWater.AUDDISError.CLS/MARINA.0
Component	CLS.ClearWater.AUDDISError
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.11.2 Member Data Documentation

#### 6.11.2.1 AUDDISubmission

[AUDDISubmission](#)

#### 6.11.2.2 AccountType

AccountType

#### 6.11.2.3 BankAccountName

BankAccountName

#### 6.11.2.4 BankAccountNumber

BankAccountNumber



### 6.11.2.5 Licensee

[Licensee](#)

### 6.11.2.6 Message

Message

### 6.11.2.7 ReferenceNumber

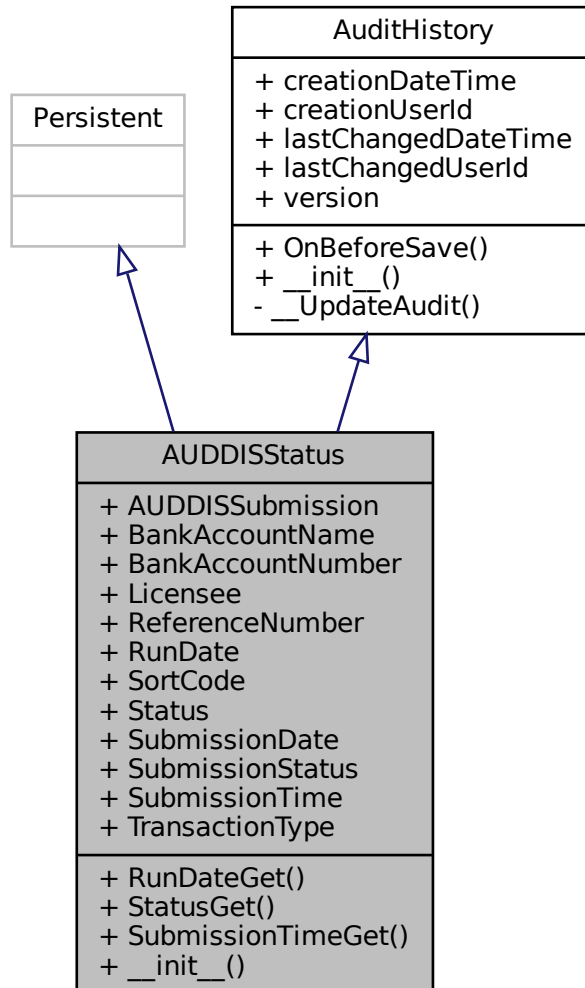
ReferenceNumber

### 6.11.2.8 SortCode

SortCode

## 6.12 AUDDISStatus Class Reference

Inheritance diagram for AUDDISStatus:



### Public Member Functions

- `_.Library.String StatusGet ()`  
*If null is in dbase return a 0.*

### Public Attributes

- [AUDDISSubmission](#)  
*The id of the last AUDDIS Submission that included this status record.*
- [BankAccountName](#)

- [BankAccountNumber](#)
- [Licensee](#)
- [ReferenceNumber](#)
- [RunDate](#)
  - Run Date retrieved from [AUDDISSubmission](#) record.*
- [SortCode](#)
- [Status](#)
  - 0 - mandate in use*
- [SubmissionDate](#)
  - SubmissionDate set by VB exe - Do not use!*
- [SubmissionStatus](#)
  - The status of this record at the time when it was processed by the Submission.*
- [SubmissionTime](#)
- [TransactionType](#)

### 6.12.1 Detailed Description

Deltanji status:

Object	ClearWater.AUDDISStatus.CLS/MARINA.0
Component	CLS.ClearWater.AUDDISStatus
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.12.2 Member Data Documentation

#### 6.12.2.1 AUDDISSubmission

[AUDDISSubmission](#)

The id of the last AUDDIS Submission that included this status record.

#### 6.12.2.2 BankAccountName

BankAccountName

### 6.12.2.3 BankAccountNumber

BankAccountNumber

### 6.12.2.4 Licensee

[Licensee](#)

### 6.12.2.5 ReferenceNumber

ReferenceNumber

### 6.12.2.6 RunDate

RunDate

Run Date retrieved from [AUDDISubmission](#) record.

### 6.12.2.7 SortCode

SortCode

### 6.12.2.8 Status

Status

0 - mandate in use

1 - ready for auddis submission 2 - in waiting period before use 3 - mandate stopped/rejected 4 - awaiting signed mandate from customer

### 6.12.2.9 SubmissionDate

SubmissionDate

SubmissionDate set by VB exe - Do not use!

### 6.12.2.10 SubmissionStatus

SubmissionStatus

The status of this record at the time when it was processed by the Submission.

0 - record in error 1 - ok

### 6.12.2.11 SubmissionTime

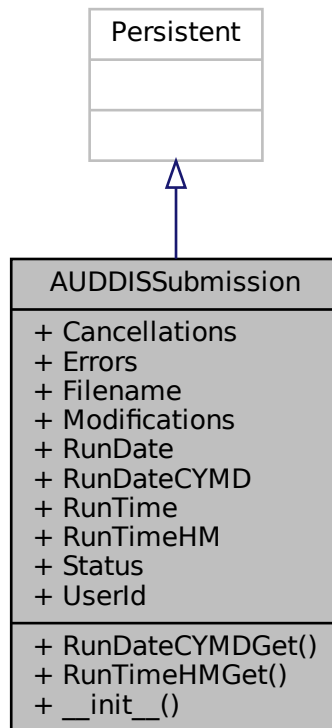
SubmissionTime

### 6.12.2.12 TransactionType

TransactionType

## 6.13 AUDDISSubmission Class Reference

Inheritance diagram for AUDDISSubmission:



### Public Attributes

- [Cancellations](#)  
*Number of bank mandates to be cancelled.*
- [Errors](#)  
*Number of bank mandates in error.*
- [Filename](#)  
*Name of file used for the submission.*
- [Modifications](#)  
*Number of new or modified bank mandates.*
- [RunDate](#)  
*Date of the submission.*
- [RunDateCYMD](#)  
*Calculated from Run Date in CCYYMMDD format.*
- [RunTime](#)  
*Number of seconds since midnight on Run Date.*
- [RunTimeHM](#)  
*Calculated from RunTime as HH:MM format.*

- [Status](#)

*Status of the submission.*

- [UserId](#)

*User requesting the submission run.*

### 6.13.1 Detailed Description

Deltanji status:

Object	ClearWater.AUDDISSubmission.CLS/MARINA.0
Component	CLS.ClearWater.AUDDISSubmission
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.13.2 Member Data Documentation

#### 6.13.2.1 Cancellations

Cancellations

Number of bank mandates to be cancelled.

#### 6.13.2.2 Errors

Errors

Number of bank mandates in error.

#### 6.13.2.3 Filename

Filename

Name of file used for the submission.

#### 6.13.2.4 Modifications

Modifications

Number of new or modified bank mandates.

#### 6.13.2.5 RunDate

RunDate

Date of the submission.

#### 6.13.2.6 RunDateCYMD

RunDateCYMD

Calculated from Run Date in CCYYMMDD format.

#### 6.13.2.7 RunTime

RunTime

Number of seconds since midnight on Run Date.

#### 6.13.2.8 RunTimeHM

RunTimeHM

Calculated from RunTime as HH:MM format.

#### 6.13.2.9 Status

Status

Status of the submission.

0 - In Progress i.e. currently running 1 - Completed



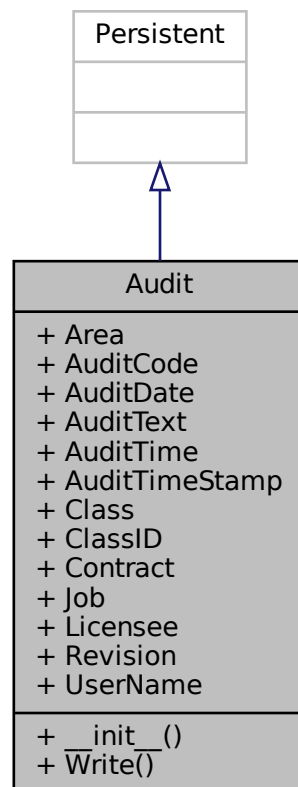
### 6.13.2.10 UserId

UserId

User requesting the submission run.

## 6.14 Audit Class Reference

Inheritance diagram for Audit:



### Public Attributes

- [Area](#)
- [AuditCode](#)  
*BT New Boat.*
- [AuditDate](#)

- [AuditText](#)
- [AuditTime](#)
- [AuditTimeStamp](#)
- [Class](#)
- [ClassID](#)
- [Contract](#)
- [Job](#)
- [Licensee](#)
- [Revision](#)
- [UserName](#)

### 6.14.1 Detailed Description

Deltanji status:

Object	ClearWater.Audit.CLS/MARINA.0
Component	CLS.ClearWater.Audit
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.14.2 Member Data Documentation

#### 6.14.2.1 Area

[Area](#)

### 6.14.2.2 AuditCode

AuditCode

BT New [Boat](#).

EA Edit Account Number LC New Customer/Licensee MO New [Boat](#) in [Mooring](#) MP Map save NC [Contract](#)

OO [Options](#) change OA Accounts [Options](#) change OS System Configuration change

XB Delete [Boat](#) XC Delete Customer

CI check in CO check out

TA [Allocation](#) TB Bounced Receipt TC Credit Note TD Journal Debit TE E-Invoice TF Refund TI [Invoice](#) TJ Journal Credit TK Banking TN E-Credit Note TO Pro-Forma [Invoice](#) TP Receipt

PC [Print Contract](#) PT [Print](#) transaction SC [Contract](#) status change SRA [Service](#) Record SRD [Service](#) Record Delete

### 6.14.2.3 AuditDate

AuditDate

### 6.14.2.4 AuditText

AuditText

### 6.14.2.5 AuditTime

AuditTime

### 6.14.2.6 AuditTimeStamp

AuditTimeStamp

### 6.14.2.7 Class

Class

### 6.14.2.8 ClassID

ClassID

### 6.14.2.9 Contract

[Contract](#)

### 6.14.2.10 Job

Job

### 6.14.2.11 Licensee

[Licensee](#)

### 6.14.2.12 Revision

Revision

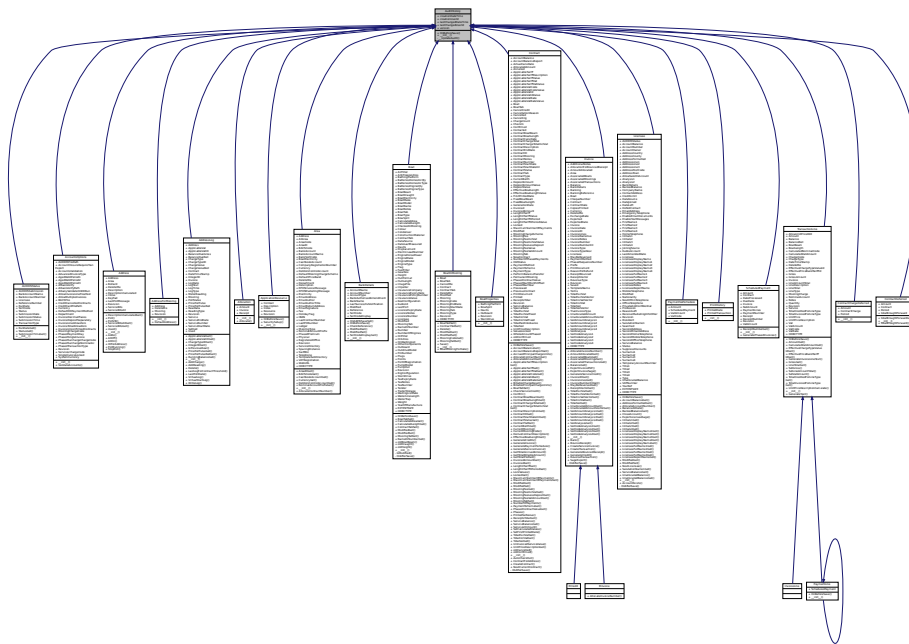
## 6.14.2.13 UserName

UserName

## 6.15 AuditHistory Class Reference

[Audit](#) Properties for Persistent Classes.

Inheritance diagram for AuditHistory:



## Public Member Functions

- `_.Library.Status OnBeforeSave` (`_.Library.Boolean insert`)  
*If this method is overridden then you must call `..UpdateAudit()` yourself.*

## Public Attributes

- `creationDateTime`
- `creationUserId`
- `lastChangedDateTime`
- `lastChangedUserId`
- `version`

### 6.15.1 Detailed Description

[Audit](#) Properties for Persistent Classes.

Deltanji status:

Object	ClearWater.AuditHistory.CLS/MARINA.0
Component	CLS.ClearWater.AuditHistory
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.15.2 Member Data Documentation

#### 6.15.2.1 creationDateTime

creationDateTime

#### 6.15.2.2 creationUserId

creationUserId

#### 6.15.2.3 lastChangedDateTime

lastChangedDateTime

#### 6.15.2.4 lastChangedUserId

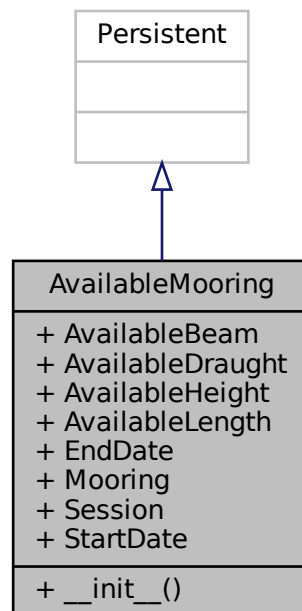
lastChangedUserId

### 6.15.2.5 version

version

## 6.16 AvailableMooring Class Reference

Inheritance diagram for AvailableMooring:



### Public Attributes

- [AvailableBeam](#)
- [AvailableDraught](#)
- [AvailableHeight](#)
- [AvailableLength](#)
- [EndDate](#)

- [Mooring](#)
- [Session](#)
- [StartDate](#)

### 6.16.1 Detailed Description

Deltanji status:

Object	WorkFile.AvailableMooring.CLS/MARINA.0
Component	CLS.WorkFile.AvailableMooring
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.16.2 Member Data Documentation

#### 6.16.2.1 AvailableBeam

AvailableBeam

#### 6.16.2.2 AvailableDraught

AvailableDraught

#### 6.16.2.3 AvailableHeight

AvailableHeight



#### 6.16.2.4 AvailableLength

AvailableLength

#### 6.16.2.5 EndDate

EndDate

#### 6.16.2.6 Mooring

Mooring

#### 6.16.2.7 Session

Session

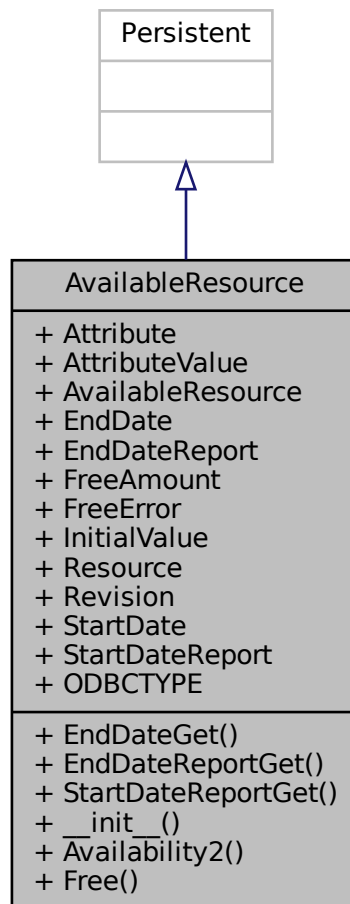
#### 6.16.2.8 StartDate

StartDate

## 6.17 AvailableResource Class Reference

Available Resources are stored in here.

Inheritance diagram for AvailableResource:



### Static Public Member Functions

- [Availability2](#) (`__Library.Date StartDate`, `__Library.Date EndDate`, `__Library.Float length`, `__Library.Float beam`, `__Library.Float draught`, `__Library.String areaid`, `__Library.String mooringnumber`, `__Library.String username`)  
*Populate availability class with all available resources for the boat dimensions.*

### Public Attributes

- [Attribute](#)
- [AttributeValue](#)

- [AvailableResource](#)
- [EndDate](#)
- [EndDateReport](#)
- [FreeAmount](#)
- [FreeError](#)
- [InitialValue](#)
- [Resource](#)
- [Revision](#)
- [StartDate](#)
- [StartDateReport](#)

### 6.17.1 Detailed Description

Available Resources are stored in here.

\nResourced are created by allocating negative resource in\nthis class, usually with no end date.

Deltanji status:

Object	ClearWater.AvailableResource.CLS/MARINA.0
Component	CLS.ClearWater.AvailableResource
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.17.2 Member Function Documentation

#### 6.17.2.1 Availability2()

```
Availability2 (  
    __.Library.Date StartDate,  
    __.Library.Date EndDate,  
    __.Library.Float length,  
    __.Library.Float beam,  
    __.Library.Float draught,
```

```
_.Library.String areaid,  
_.Library.String mooringnumber,  
_.Library.String username ) [static]
```

Populate availability class with all available resources for the boat dimensions.

currentcheck - Are berths containing boats included in the search

ie there may be a contracted boat in a berth for this year.

When looking for available berths for next year this shouldn't show as free even though there is no contract yet

## 6.17.3 Member Data Documentation

### 6.17.3.1 Attribute

[Attribute](#)

### 6.17.3.2 AttributeValue

[AttributeValue](#)

### 6.17.3.3 AvailableResource

[AvailableResource](#)

### 6.17.3.4 EndDate

[EndDate](#)

### 6.17.3.5 EndDateReport

EndDateReport

### 6.17.3.6 FreeAmount

FreeAmount

### 6.17.3.7 FreeError

FreeError

### 6.17.3.8 InitialValue

InitialValue

### 6.17.3.9 Resource

[Resource](#)

### 6.17.3.10 Revision

Revision

### 6.17.3.11 StartDate

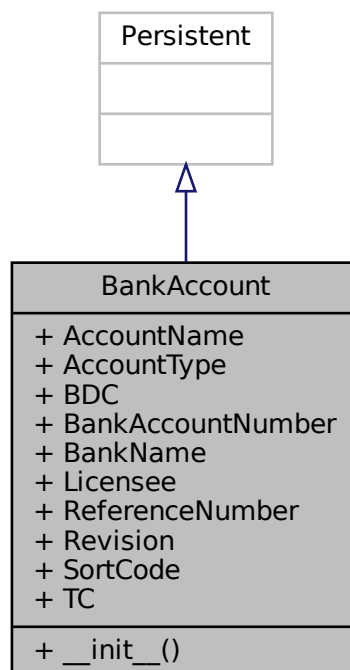
StartDate

### 6.17.3.12 StartDateReport

StartDateReport

## 6.18 BankAccount Class Reference

Inheritance diagram for BankAccount:



## Public Attributes

- [AccountName](#)
- [AccountType](#)
- [BDC](#)
- [BankAccountNumber](#)
- [BankName](#)
- [Licensee](#)
- [ReferenceNumber](#)
- [Revision](#)
- [SortCode](#)
- [TC](#)

### 6.18.1 Detailed Description

Deltanji status:

Object	ClearWater.BankAccount.CLS/MARINA.0
Component	CLS.ClearWater.BankAccount
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.18.2 Member Data Documentation

#### 6.18.2.1 AccountName

AccountName

### 6.18.2.2 AccountType

AccountType

### 6.18.2.3 BDC

BDC

### 6.18.2.4 BankAccountNumber

BankAccountNumber

### 6.18.2.5 BankName

BankName

### 6.18.2.6 Licensee

Licensee

### 6.18.2.7 ReferenceNumber

ReferenceNumber



### 6.18.2.8 Revision

Revision

### 6.18.2.9 SortCode

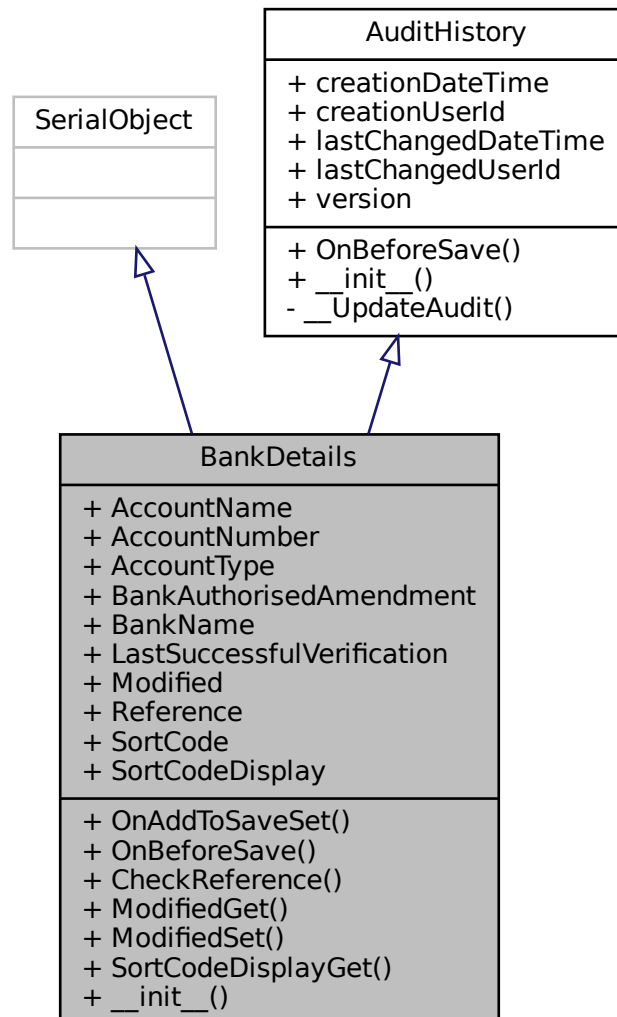
SortCode

### 6.18.2.10 TC

TC

## 6.19 BankDetails Class Reference

Inheritance diagram for BankDetails:



### Public Member Functions

- `_.Library.Status OnAddToSaveSet (_.Library.Integer depth, _.Library.Integer insert, _.Library.Integer call-count)`

*This callback method is invoked by the `<METHOD>AddToSaveSet</METHOD>` method to.*

- `_.Library.Status OnBeforeSave (_.Library.Booleant insert)`

*If this method is overridden then you must call `..UpdateAudit()` yourself.*

## Public Attributes

- [AccountName](#)
- [AccountNumber](#)
- [AccountType](#)
- [BankAuthorisedAmendment](#)
- [BankName](#)
- [LastSuccessfulVerification](#)
- [Modified](#)
- [Reference](#)
- [SortCode](#)
- [SortCodeDisplay](#)

### 6.19.1 Detailed Description

Deltanji status:

Object	ClearWater.BankDetails.CLS/MARINA.0
Component	CLS.ClearWater.BankDetails
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.19.2 Member Function Documentation

#### 6.19.2.1 OnAddToSaveSet()

```

_.Library.Status OnAddToSaveSet (
    _.Library.Integer depth,
    _.Library.Integer insert,
    _.Library.Integer callcount )

```

This callback method is invoked by the <METHOD>AddToSaveSet</METHOD> method to.

provide notification that the current object is being included in a SaveSet, either because Save() was invoked on this object or an object that references this object.

If this method returns an error status then Save() will fail and the transaction will be rolled back.

### 6.19.3 Member Data Documentation

#### 6.19.3.1 AccountName

AccountName

#### 6.19.3.2 AccountNumber

AccountNumber

#### 6.19.3.3 AccountType

AccountType

#### 6.19.3.4 BankAuthorisedAmendment

BankAuthorisedAmendment

#### 6.19.3.5 BankName

BankName

### 6.19.3.6 LastSuccessfulVerification

LastSuccessfulVerification

### 6.19.3.7 Modified

Modified

### 6.19.3.8 Reference

Reference

### 6.19.3.9 SortCode

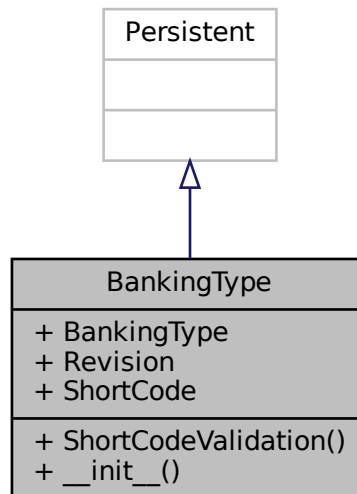
SortCode

### 6.19.3.10 SortCodeDisplay

SortCodeDisplay

## 6.20 BankingType Class Reference

Inheritance diagram for BankingType:



### Public Attributes

- [BankingType](#)  
*ie*
- [Revision](#)
- [ShortCode](#)

### 6.20.1 Detailed Description

Deltanji status:

Object	ClearWater.BankingType.CLS/MARINA.0
Component	CLS.ClearWater.BankingType
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.20.2 Member Data Documentation

### 6.20.2.1 BankingType

BankingType

ie

Cash Cheque Credit/Debit

### 6.20.2.2 Revision

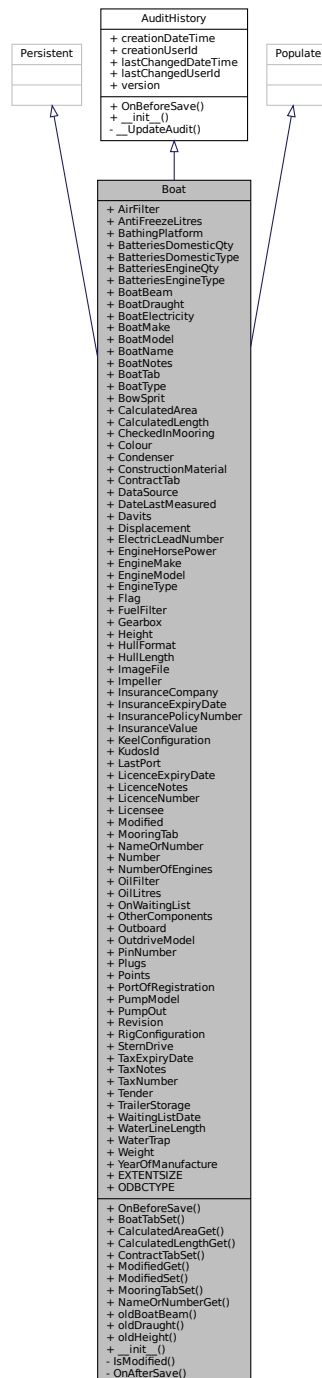
Revision

### 6.20.2.3 ShortCode

ShortCode

## 6.21 Boat Class Reference

Inheritance diagram for Boat:



### Public Member Functions

- `_.Library.Status OnBeforeSave` (`_.Library.Boolean insert`)  
*If this method is overridden then you must call `..UpdateAudit()` yourself.*
- `_.Library.Float CalculatedAreaGet` ()  
*Calculated area of boat =  $\text{calculatedlength} \times \text{beam}$ .*



## Public Attributes

- [AirFilter](#)
- [AntiFreezeLitres](#)
- [BathingPlatform](#)
  - *Has the boat got a bathing platform.*
- [BatteriesDomesticQty](#)
- [BatteriesDomesticType](#)
- [BatteriesEngineQty](#)
- [BatteriesEngineType](#)
- [BoatBeam](#)
  - *The width (beam) of the boat.*
- [BoatDraught](#)
  - *The draft of the boat.*
- [BoatElectricity](#)
  - *Does the boat require electricity.*
- [BoatMake](#)
  - *The make (manufacturer) of the boat.*
- [BoatModel](#)
  - *The model of the boat ie 1720 or sigma class.*
- [BoatName](#)
  - *The name of the boat.*
- [BoatNotes](#)
  - *Any general notes about the boat.*
- [BoatTab](#)
- [BoatType](#)
- [BowSprit](#)
  - *Does the boat have a bow sprit.*
- [CalculatedArea](#)
- [CalculatedLength](#)
  - *The calculated length of the boat = LOA.*
- [CheckedInMooring](#)
- [Colour](#)
  - *Colour of the boat.*
- [Condenser](#)
- [ConstructionMaterial](#)
- [ContractTab](#)
- [DataSource](#)

- [DateLastMeasured](#)  
*The date the boat length/beam was last measured.*
- [Davits](#)
- [Displacement](#)
- [ElectricLeadNumber](#)
- [EngineHorsePower](#)
- [EngineMake](#)
- [EngineModel](#)
- [EngineType](#)
- [Flag](#)  
*Nationality.*
- [FuelFilter](#)
- [Gearbox](#)
- [Height](#)  
*Boat Height.*
- [HullFormat](#)  
*Hull Format.*
- [HullLength](#)  
*The Hull Length of the boat.*
- [ImageFile](#)  
*Photo of the Boat.*
- [Impeller](#)
- [InsuranceCompany](#)
- [InsuranceExpiryDate](#)
- [InsurancePolicyNumber](#)
- [InsuranceValue](#)
- [KeelConfiguration](#)
- [KudosId](#)
- [LastPort](#)
- [LicenceExpiryDate](#)
- [LicenceNotes](#)

- LicenceNumber
- Licensee
- Modified
- MooringTab
- NameOrNumber
  - *If the boatname is blank display the number instead, however.*
- Number
- NumberOfEngines
- OilFilter
- OilLitres
- OnWaitingList
  - *9/10/03 TH Is this Boat on a waiting list*
- OtherComponents
- Outboard
- OutdriveModel
- PinNumber
  - *The pin number for the Key Pad used to check in a boat and.*
- Plugs
- Points
- PortOfRegistration
- PumpModel
- PumpOut
- Revision
- RigConfiguration
  - *Rig Configuration.*
- SternDrive
- TaxExpiryDate
- TaxNotes
- TaxNumber
- Tender

- [TrailerStorage](#)
- [WaitingListDate](#)  
*The date this boat was put on the waiting list.*
- [WaterLineLength](#)  
*The Water Line [Length](#) of the boat.*
- [WaterTrap](#)
- [Weight](#)  
*The dry weight of the boat.*
- [YearOfManufacture](#)

### 6.21.1 Detailed Description

Deltanji status:

Object	ClearWater.Boat.CLS/MARINA.0
Component	CLS.ClearWater.Boat
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.21.2 Member Data Documentation

#### 6.21.2.1 AirFilter

`AirFilter`

#### 6.21.2.2 AntiFreezeLitres

`AntiFreezeLitres`

### 6.21.2.3 BathingPlatform

BathingPlatform

Has the boat got a bathing platform.

0 - no 1 - yes

### 6.21.2.4 BatteriesDomesticQty

BatteriesDomesticQty

### 6.21.2.5 BatteriesDomesticType

BatteriesDomesticType

### 6.21.2.6 BatteriesEngineQty

BatteriesEngineQty

### 6.21.2.7 BatteriesEngineType

BatteriesEngineType

### 6.21.2.8 BoatBeam

BoatBeam

The width (beam) of the boat.

### 6.21.2.9 BoatDraught

BoatDraught

The draft of the boat.

### 6.21.2.10 BoatElectricity

BoatElectricity

Does the boat require electricity.

0 - no 1 - yes

### 6.21.2.11 BoatMake

BoatMake

The make (manufacturer) of the boat.

### 6.21.2.12 BoatModel

BoatModel

The model of the boat ie 1720 or sigma class.

### 6.21.2.13 BoatName

BoatName

The name of the boat.

### 6.21.2.14 BoatNotes

BoatNotes

Any general notes about the boat.

**6.21.2.15 BoatTab**

BoatTab

**6.21.2.16 BoatType**

BoatType

**6.21.2.17 BowSprit**

BowSprit

Does the boat have a bow sprit.

0 - no 1 - yes

**6.21.2.18 CalculatedArea**

CalculatedArea

**6.21.2.19 CalculatedLength**

CalculatedLength

The calculated length of the boat = LOA.

LOA=HullLength + any bathing plathform, davits, stern drive etc

**6.21.2.20 CheckedInMooring**

CheckedInMooring

**6.21.2.21 Colour**

Colour

Colour of the boat.

**6.21.2.22 Condenser**

Condenser

**6.21.2.23 ConstructionMaterial**

[ConstructionMaterial](#)

**6.21.2.24 ContractTab**

ContractTab

**6.21.2.25 DataSource**

DataSource

**6.21.2.26 DateLastMeasured**

DateLastMeasured

The date the boat length/beam was last measured.



**6.21.2.27 Davits**

Davits

**6.21.2.28 Displacement**

Displacement

**6.21.2.29 ElectricLeadNumber**

ElectricLeadNumber

**6.21.2.30 EngineHorsePower**

EngineHorsePower

**6.21.2.31 EngineMake**

EngineMake

**6.21.2.32 EngineModel**

EngineModel

### 6.21.2.33 EngineType

[EngineType](#)

### 6.21.2.34 Flag

Flag

Nationality.

### 6.21.2.35 FuelFilter

FuelFilter

### 6.21.2.36 Gearbox

Gearbox

### 6.21.2.37 Height

Height

[Boat](#) Height.

### 6.21.2.38 HullFormat

HullFormat

Hull Format.

**6.21.2.39 HullLength**

HullLength

The Hull [Length](#) of the boat.

**6.21.2.40 ImageFile**

ImageFile

Photo of the [Boat](#).

**6.21.2.41 Impeller**

Impeller

**6.21.2.42 InsuranceCompany**

InsuranceCompany

**6.21.2.43 InsuranceExpiryDate**

InsuranceExpiryDate

**6.21.2.44 InsurancePolicyNumber**

InsurancePolicyNumber

**6.21.2.45 InsuranceValue**

InsuranceValue

**6.21.2.46 KeelConfiguration**

KeelConfiguration

**6.21.2.47 KudosId**

KudosId

**6.21.2.48 LastPort**

LastPort

**6.21.2.49 LicenceExpiryDate**

LicenceExpiryDate

**6.21.2.50 LicenceNotes**

LicenceNotes

**6.21.2.51 LicenceNumber**

LicenceNumber

**6.21.2.52 Licensee**

Licensee

**6.21.2.53 Modified**

Modified

**6.21.2.54 MooringTab**

MooringTab

**6.21.2.55 NameOrNumber**

NameOrNumber

If the boatname is blank display the number instead, however.

if the boat name is not blank display the name prefixed with the number

**6.21.2.56 Number**

Number

### 6.21.2.57 NumberOfEngines

NumberOfEngines

### 6.21.2.58 OilFilter

OilFilter

### 6.21.2.59 OilLitres

OilLitres

### 6.21.2.60 OnWaitingList

OnWaitingList

9/10/03 TH Is this [Boat](#) on a waiting list

### 6.21.2.61 OtherComponents

OtherComponents

### 6.21.2.62 Outboard

Outboard

### 6.21.2.63 OutdriveModel

OutdriveModel

### 6.21.2.64 PinNumber

PinNumber

The pin number for the Key Pad used to check in a boat and.

switch on services (as at Shetland marina)

### 6.21.2.65 Plugs

Plugs

### 6.21.2.66 Points

Points

### 6.21.2.67 PortOfRegistration

PortOfRegistration

### 6.21.2.68 PumpModel

PumpModel

**6.21.2.69 PumpOut**

PumpOut

**6.21.2.70 Revision**

Revision

**6.21.2.71 RigConfiguration**

RigConfiguration

Rig Configuration.

**6.21.2.72 SternDrive**

SternDrive

**6.21.2.73 TaxExpiryDate**

TaxExpiryDate

**6.21.2.74 TaxNotes**

TaxNotes



**6.21.2.75 TaxNumber**

TaxNumber

**6.21.2.76 Tender**

Tender

**6.21.2.77 TrailerStorage**

TrailerStorage

**6.21.2.78 WaitingListDate**

WaitingListDate

The date this boat was put on the waiting list.

**6.21.2.79 WaterLineLength**

WaterLineLength

The Water Line [Length](#) of the boat.

**6.21.2.80 WaterTrap**

WaterTrap

**6.21.2.81 Weight**

Weight

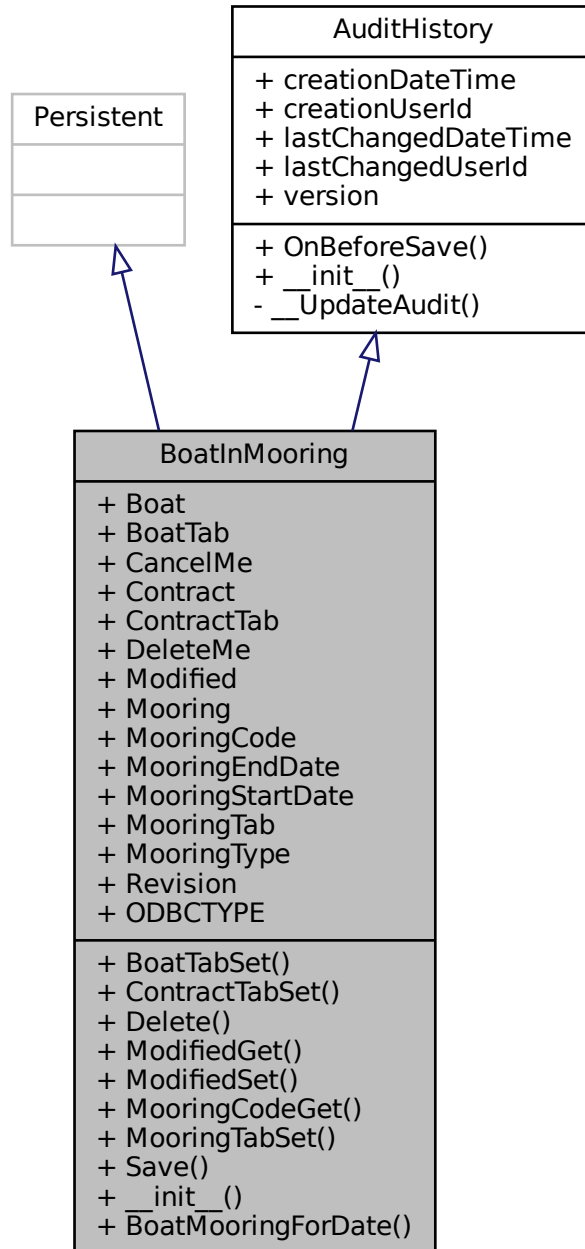
The dry weight of the boat.

**6.21.2.82 YearOfManufacture**

YearOfManufacture

## 6.22 BoatInMooring Class Reference

Inheritance diagram for BoatInMooring:



### Static Public Member Functions

- `_.Library.String BoatMooringForDate (_.Library.String contractId, _.Library.Date moorDate, _.Library.Date startDate)`

*Find the mooring code for a contract on a given date.*

## Public Attributes

- [Boat](#)
- [BoatTab](#)
- [CancelMe](#)
- [Contract](#)
- [ContractTab](#)
- [DeleteMe](#)
- [Modified](#)
- [Mooring](#)
- [MooringCode](#)
- [MooringEndDate](#)
- [MooringStartDate](#)
- [MooringTab](#)
- [MooringType](#)
- [Revision](#)

## Additional Inherited Members

### 6.22.1 Detailed Description

Deltanji status:

Object	ClearWater.BoatInMooring.CLS/MARINA.0
Component	CLS.ClearWater.BoatInMooring
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.22.2 Member Data Documentation

### 6.22.2.1 Boat

[Boat](#)

### 6.22.2.2 BoatTab

[BoatTab](#)

### 6.22.2.3 CancelMe

[CancelMe](#)

### 6.22.2.4 Contract

[Contract](#)

### 6.22.2.5 ContractTab

[ContractTab](#)

### 6.22.2.6 DeleteMe

[DeleteMe](#)

### 6.22.2.7 Modified

Modified

### 6.22.2.8 Mooring

Mooring

### 6.22.2.9 MooringCode

MooringCode

### 6.22.2.10 MooringEndDate

MooringEndDate

### 6.22.2.11 MooringStartDate

MooringStartDate

### 6.22.2.12 MooringTab

MooringTab

### 6.22.2.13 MooringType

MooringType

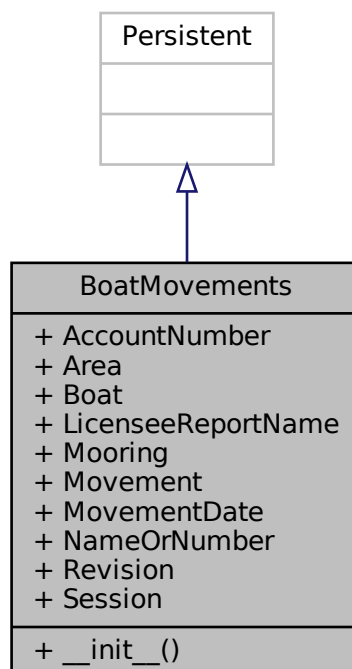
### 6.22.2.14 Revision

Revision

## 6.23 BoatMovements Class Reference

A workfile class built by a query from the [Utility](#) class and used for reporting only.

Inheritance diagram for BoatMovements:



## Public Attributes

- [AccountNumber](#)
- [Area](#)
- [Boat](#)
- [LicenseeReportName](#)
- [Mooring](#)
- [Movement](#)  
*ie In or Out of the Marina*
- [MovementDate](#)
- [NameOrNumber](#)
- [Revision](#)
- [Session](#)

### 6.23.1 Detailed Description

A workfile class built by a query from the [Utility](#) class and used for reporting only.

Deltanji status:

Object	ClearWater.BoatMovements.CLS/MARINA.0
Component	CLS.ClearWater.BoatMovements
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.23.2 Member Data Documentation

#### 6.23.2.1 AccountNumber

AccountNumber



### 6.23.2.2 Area

Area

### 6.23.2.3 Boat

Boat

### 6.23.2.4 LicenseeReportName

LicenseeReportName

### 6.23.2.5 Mooring

Mooring

### 6.23.2.6 Movement

Movement

ie In or Out of the Marina

### 6.23.2.7 MovementDate

MovementDate

### 6.23.2.8 NameOrNumber

NameOrNumber

### 6.23.2.9 Revision

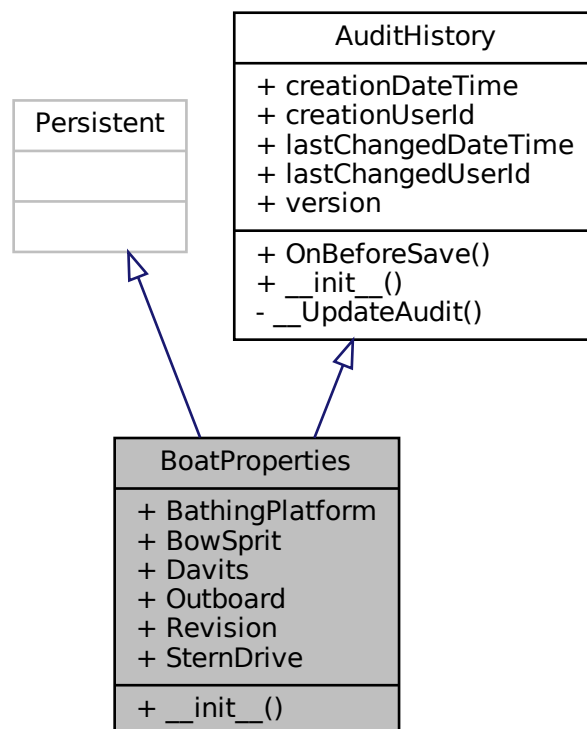
Revision

### 6.23.2.10 Session

Session

## 6.24 BoatProperties Class Reference

Inheritance diagram for BoatProperties:



## Public Attributes

- [BathingPlatform](#)
- [BowSprit](#)
- [Davits](#)
- [Outboard](#)
- [Revision](#)
- [SternDrive](#)

## Additional Inherited Members

### 6.24.1 Detailed Description

Deltanji status:

Object	ClearWater.BoatProperties.CLS/MARINA.0
Component	CLS.ClearWater.BoatProperties
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.24.2 Member Data Documentation

#### 6.24.2.1 BathingPlatform

BathingPlatform

#### 6.24.2.2 BowSprit

BowSprit

### 6.24.2.3 Davits

Davits

### 6.24.2.4 Outboard

Outboard

### 6.24.2.5 Revision

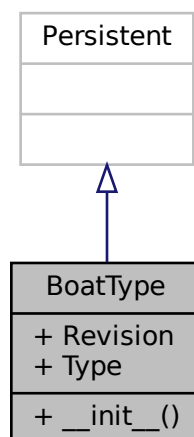
Revision

### 6.24.2.6 SternDrive

SternDrive

## 6.25 BoatType Class Reference

Inheritance diagram for BoatType:



## Public Attributes

- [Revision](#)
- [Type](#)

### 6.25.1 Detailed Description

Deltanji status:

Object	ClearWater.BoatType.CLS/MARINA.0
Component	CLS.ClearWater.BoatType
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.25.2 Member Data Documentation

#### 6.25.2.1 Revision

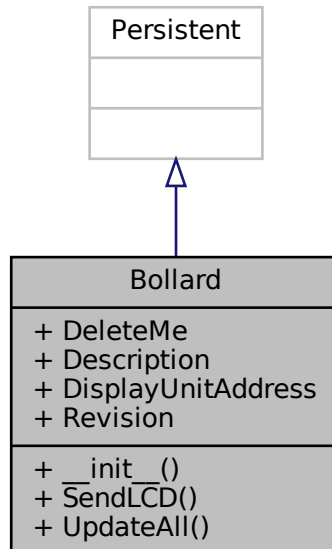
Revision

#### 6.25.2.2 Type

Type

## 6.26 Bollard Class Reference

Inheritance diagram for Bollard:



### Static Public Member Functions

- `_.Library.Status SendLCD (_.Library.Integer address, _.Library.String screens, _.Library.String text)`  
*this is called from shmmas340 the bollard polling routine*
- `_.Library.Status UpdateAll ()`  
*this is called from shmmas340 the bollard polling routine*

### Public Attributes

- [DeleteMe](#)
- [Description](#)
- [DisplayUnitAddress](#)
- [Revision](#)

#### 6.26.1 Detailed Description

Deltanji status:

Object	ClearWater.Bollard.CLS/MARINA.0
Component	CLS.ClearWater.Bollard
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.26.2 Member Function Documentation

### 6.26.2.1 UpdateAll()

```
_.Library.Status UpdateAll ( ) [static]
```

this is called from shmmas340 the bollard polling routine

Remove Processing!!

## 6.26.3 Member Data Documentation

### 6.26.3.1 DeleteMe

```
DeleteMe
```

### 6.26.3.2 Description

```
Description
```

### 6.26.3.3 DisplayUnitAddress

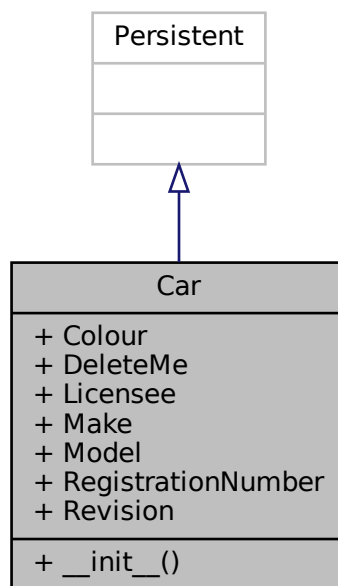
```
DisplayUnitAddress
```

### 6.26.3.4 Revision

Revision

## 6.27 Car Class Reference

Inheritance diagram for Car:



### Public Attributes

- [Colour](#)  
*The colour of the car.*
- [DeleteMe](#)
- [Licensee](#)  
*The licensee to whom the car belongs.*
- [Make](#)  
*The manufacturer of the car.*
- [Model](#)  
*The model of the car.*
- [RegistrationNumber](#)
- [Revision](#)



## 6.27.1 Detailed Description

Deltanji status:

Object	ClearWater.Car.CLS/MARINA.0
Component	CLS.ClearWater.Car
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.27.2 Member Data Documentation

### 6.27.2.1 Colour

Colour

The colour of the car.

### 6.27.2.2 DeleteMe

DeleteMe

### 6.27.2.3 Licensee

[Licensee](#)

The licensee to whom the car belongs.

### 6.27.2.4 Make

Make

The manufacturer of the car.

### 6.27.2.5 Model

Model

The model of the car.

### 6.27.2.6 RegistrationNumber

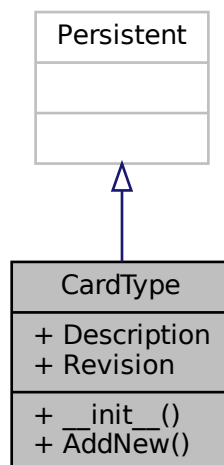
RegistrationNumber

### 6.27.2.7 Revision

Revision

## 6.28 CardType Class Reference

Inheritance diagram for CardType:



## Public Attributes

- [Description](#)
- [Revision](#)

### 6.28.1 Detailed Description

Deltanji status:

Object	ClearWater.CardType.CLS/MARINA.0
Component	CLS.ClearWater.CardType
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.28.2 Member Data Documentation

#### 6.28.2.1 Description

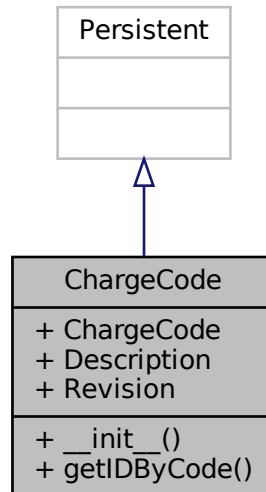
Description

#### 6.28.2.2 Revision

Revision

## 6.29 ChargeCode Class Reference

Inheritance diagram for ChargeCode:



### Public Attributes

- [ChargeCode](#)
- eg*
- [Description](#)
- [Revision](#)

### 6.29.1 Detailed Description

Deltanji status:

Object	ClearWater.ChargeCode.CLS/MARINA.0
Component	CLS.ClearWater.ChargeCode
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.29.2 Member Data Documentation

### 6.29.2.1 ChargeCode

ChargeCode

eg

M [Mooring](#) Fees S Sundries E Electricity

### 6.29.2.2 Description

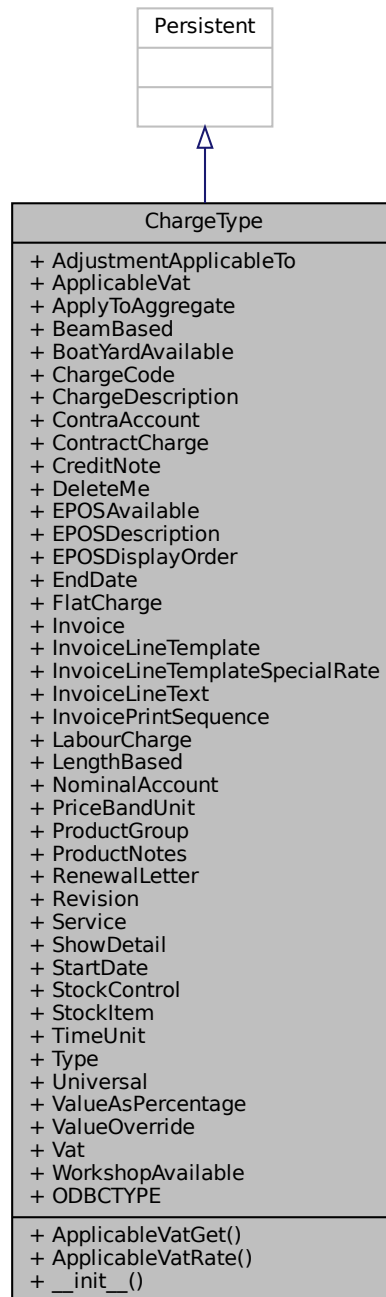
Description

### 6.29.2.3 Revision

Revision

## 6.30 ChargeType Class Reference

Inheritance diagram for ChargeType:



### Public Member Functions

- [ClearWater.Vat ApplicableVatGet \(\)](#)  
Get the *Vat* applicable to this chargetype.

## Public Attributes

- [AdjustmentApplicableTo](#)
- [ApplicableVat](#)  
*The Vat Applicable to this charge type.*
- [ApplyToAggregate](#)  
*Apply this charge to the sum of the other charges.*
- [BeamBased](#)
- [BoatYardAvailable](#)
- [ChargeCode](#)
- [ChargeDescription](#)
- [ContraAccount](#)
- [ContractCharge](#)
- [CreditNote](#)
- [DeleteMe](#)
- [EPOSAvailable](#)
- [EPOSDescription](#)
- [EPOSDisplayOrder](#)
- [EndDate](#)
- [FlatCharge](#)  
*1 flat charge*
- [Invoice](#)
- [InvoiceLineTemplate](#)
- [InvoiceLineTemplateSpecialRate](#)
- [InvoiceLineText](#)
- [InvoicePrintSequence](#)  
*Charge Types with lower sequence numbers appear before those with higher numbers.*
- [LabourCharge](#)
- [LengthBased](#)
- [NominalAccount](#)
- [PriceBandUnit](#)

- [ProductGroup](#)
- [ProductNotes](#)
- [RenewalLetter](#)
- [Revision](#)
- [Service](#)
- [ShowDetail](#)
- [StartDate](#)
- [StockControl](#)
- [StockItem](#)
  - The Stock Item Class will only not be a Cache Class!*
- [TimeUnit](#)
- [Type](#)
- [Universal](#)
  - Is this charge applied to every contract.*
- [ValueAsPercentage](#)
- [ValueOverride](#)
- [Vat](#)
- [WorkshopAvailable](#)

### 6.30.1 Detailed Description

Deltanji status:

Object	ClearWater.ChargeType.CLS/MARINA.0
Component	CLS.ClearWater.ChargeType
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.30.2 Member Data Documentation



### 6.30.2.1 AdjustmentApplicableTo

AdjustmentApplicableTo

### 6.30.2.2 ApplicableVat

ApplicableVat

The [Vat](#) Applicable to this charge type.

### 6.30.2.3 ApplyToAggregate

ApplyToAggregate

Apply this charge to the sum of the other charges.

0 false 1 true

[ContractCharge](#) will use this property when calculating the applicableamount

### 6.30.2.4 BeamBased

BeamBased

### 6.30.2.5 BoatYardAvailable

BoatYardAvailable

### 6.30.2.6 ChargeCode

[ChargeCode](#)

**6.30.2.7 ChargeDescription**

ChargeDescription

**6.30.2.8 ContraAccount**

ContraAccount

**6.30.2.9 ContractCharge**

[ContractCharge](#)

**6.30.2.10 CreditNote**

CreditNote

**6.30.2.11 DeleteMe**

DeleteMe

**6.30.2.12 EPOSAvailable**

EPOSAvailable

### 6.30.2.13 EPOSDescription

EPOSDescription

### 6.30.2.14 EPOSDisplayOrder

EPOSDisplayOrder

### 6.30.2.15 EndDate

EndDate

### 6.30.2.16 FlatCharge

FlatCharge

1 flat charge

0 pro rata charge based on 1 year ie if the charge is 150 and the contract is for 6 months the charge is 75

### 6.30.2.17 Invoice

[Invoice](#)

### 6.30.2.18 InvoiceLineTemplate

InvoiceLineTemplate

### 6.30.2.19 InvoiceLineTemplateSpecialRate

InvoiceLineTemplateSpecialRate

### 6.30.2.20 InvoiceLineText

InvoiceLineText

### 6.30.2.21 InvoicePrintSequence

InvoicePrintSequence

Charge Types with lower sequence numbers appear before those with higher numbers.

### 6.30.2.22 LabourCharge

LabourCharge

### 6.30.2.23 LengthBased

LengthBased

### 6.30.2.24 NominalAccount

NominalAccount

**6.30.2.25 PriceBandUnit**

PriceBandUnit

**6.30.2.26 ProductGroup**

ProductGroup

**6.30.2.27 ProductNotes**

ProductNotes

**6.30.2.28 RenewalLetter**

RenewalLetter

**6.30.2.29 Revision**

Revision

**6.30.2.30 Service**

[Service](#)

**6.30.2.31 ShowDetail**

ShowDetail

**6.30.2.32 StartDate**

StartDate

**6.30.2.33 StockControl**

StockControl

**6.30.2.34 StockItem**

StockItem

The Stock Item Class will only not be a Cache Class!

**6.30.2.35 TimeUnit**

TimeUnit

**6.30.2.36 Type**

Type

### 6.30.2.37 Universal

Universal

Is this charge applied to every contract.

### 6.30.2.38 ValueAsPercentage

ValueAsPercentage

### 6.30.2.39 ValueOverride

ValueOverride

### 6.30.2.40 Vat

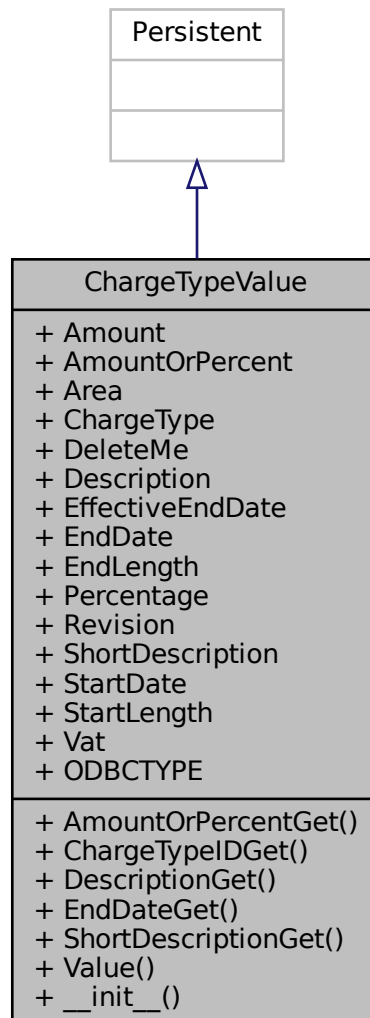
Vat

### 6.30.2.41 WorkshopAvailable

WorkshopAvailable

## 6.31 ChargeTypeValue Class Reference

Inheritance diagram for ChargeTypeValue:



### Public Member Functions

- `_.Library.Float Value ()`  
*the value of the amount or the percentage - whichever is applicable*

### Public Attributes

- `Amount`
- `AmountOrPercent`



- [Area](#)
- [ChargeType](#)
- [DeleteMe](#)
- [Description](#)
- [EffectiveEndDate](#)
- [EndDate](#)  
*Deprecated.*
- [EndLength](#)
- [Percentage](#)
- [Revision](#)
- [ShortDescription](#)
- [StartDate](#)
- [StartLength](#)
- [Vat](#)

### 6.31.1 Detailed Description

Deltanji status:

Object	ClearWater.ChargeTypeValue.CLS/MARINA.0
Component	CLS.ClearWater.ChargeTypeValue
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.31.2 Member Data Documentation

#### 6.31.2.1 Amount

Amount

### 6.31.2.2 AmountOrPercent

AmountOrPercent

### 6.31.2.3 Area

[Area](#)

### 6.31.2.4 ChargeType

[ChargeType](#)

### 6.31.2.5 DeleteMe

DeleteMe

### 6.31.2.6 Description

Description

### 6.31.2.7 EffectiveEndDate

EffectiveEndDate

### 6.31.2.8 EndDate

EndDate

Deprecated.

Use EffectiveEndDate

### 6.31.2.9 EndLength

EndLength

### 6.31.2.10 Percentage

Percentage

### 6.31.2.11 Revision

Revision

### 6.31.2.12 ShortDescription

ShortDescription

### 6.31.2.13 StartDate

StartDate

### 6.31.2.14 StartLength

StartLength

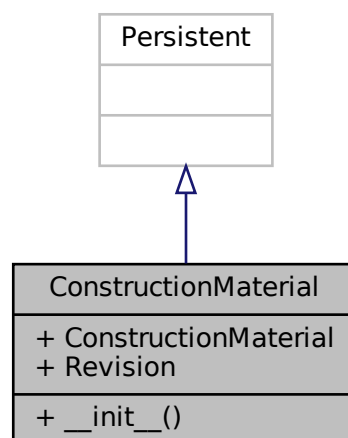
### 6.31.2.15 Vat

Vat

## 6.32 ConstructionMaterial Class Reference

What is the boat made of Wood, fibreglass...

Inheritance diagram for ConstructionMaterial:



### Public Attributes

- [ConstructionMaterial](#)
- [Revision](#)

### 6.32.1 Detailed Description

What is the boat made of Wood, fibreglass...

Deltanji status:

Object	ClearWater.ConstructionMaterial.CLS/MARINA.0
Component	CLS.ClearWater.ConstructionMaterial
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.32.2 Member Data Documentation

### 6.32.2.1 ConstructionMaterial

[ConstructionMaterial](#)

### 6.32.2.2 Revision

Revision



- `_.Library.Float AccruedPrincipalChargeUnits ()`  
*How many units of the principal charge have been used by the contract.*
- `_.Library.String AllocateContractNumber ()`  
*Generate a contract number.*
- `_.Library.Boolean BillableChargeReset ()`  
*set the billable amount for all service contract charges for this contract to zero*
- `_.Library.Float BillablePrincipalChargeUnits ()`  
*How many units of the principal charge are billable?*
- `_.Library.Status CheckServiceCredit (_.Library.Boolean CheckCredit, _.Library.Boolean StopPoll, _.Library.String new)`  
*Compares the [Contract](#) service Charges, by polling the addresses for meter readings, against the total pre-paid credit.*
- `_.Library.Status Confirm ()`  
*Method to call on confirmation of contract.*
- `_.Library.String CurrentMooring ()`  
*get the current mooring for a contract*
- `_.Library.Status GenerateCredits ()`  
*Generate Credit Notes for Invoices associated with this contract.*
- `_.Library.Float GetTotalBillableAmount ()`  
*The charge due for the outstanding billable units.*
- `_.Library.Float GetTotalPrePaid ()`  
*Total of all pre payment invoices for this contract.*
- `_.Library.Float InvoicedAmountGet ()`  
*Total amount billed for this contract - take credits into account.*
- `_.Library.Integer MaximumNumberOfPayments (_.Library.Date lastpaymentdate)`  
*Maximum number of phased payments for this contrac - under [MDL](#) rules.*
- `_.Library.Numeric Phases ()`  
*returns the number of phases for the contract*
- `_.Library.Integer ServicesOnCount (_.Library.String contractid)`  
*how many services are switched on for this contract*
- `SetCalculatedValues ()`  
*set the values of fields that are initially calculated*
- `_.Library.String UnitPriceDescriptionGet ()`  
*Description of how the mooring fee unit price was derived.*

### Static Public Member Functions

- `_.Library.Status AutoCheckOut ()`  
*Processing Removed!*
- `_.Library.String ContractForAddress (_.Library.String addressid)`  
*Find the current contract for a boat using this [Bollard](#) address.*
- `_.Library.String CreateContract (ClearWater.Mooring Mooring, ClearWater.Boat Boat, _.Library.Date start, _.Library.Date end, _.Library.String confirmed, _.Library.String ctype)`  
*Create a new contract and boat in mooring.*
- `_.Library.String NextCurrentContract (_.Library.String direction, _.Library.String ipaddress, _.Library.String in-berth)`  
*Called from Next/Previous buttons on the main [ClearWater](#) Screen.*

## Public Attributes

- [AccountBalance](#)  
*Calculate the balance of the account for the contract.*
- [AccountBalanceReport](#)  
*returns numeric vector balance*
- [ActualCanxDate](#)  
*The day the cancellation was done.*
- [AllocatedAmount](#)
  
- [Annulled](#)
  
- [ApplicableTariff](#)  
*The mooring tariff for the area in which this boat is.*
- [ApplicableTariffDescription](#)
  
- [ApplicableTariffValue](#)  
*The mooring tariff for the area in which this boat is.*
- [ApplicableTariffVat](#)  
*Should be calculated field, not implemented yet.*
- [ApplicableTariffVatValue](#)  
*Should be calculated field, not implemented yet.*
- [ApplicableVatCode](#)
  
- [ApplicableVatCodeValue](#)
  
- [ApplicableVatId](#)
  
- [ApplicableVatIdValue](#)
  
- [ApplicableVatRate](#)
  
- [ApplicableVatRateValue](#)
  
- [Boat](#)  
*The boat to which the contract applies.*
- [BoatTab](#)  
*Transient field for synchronising tabs in vb.*
- [CancelCredit](#)  
*As part of the cancelling process credit any invoices against.*
- [CancellationReason](#)
  
- [Cancelled](#)  
*Is the *Contract* cancelled ?*
- [Cancelling](#)  
*Set when the user cancels the contract so that when the save.*
- [ChargeCount](#)
  
- [CheckIn](#)
  
- [Confirmed](#)



- Is the contract confirmed ?*
- [Contacted](#)
- Has the licensee been contated about the confirmation of the.*
- [ContractBoatBeam](#)
  
- [ContractBoatLength](#)
  
- [ContractCanxDate](#)
- The effective date of the cancellation.*
- [ContractChargeTotal](#)
- The sum of the [Contract](#) Charges due for this contract.*
- [ContractChargeTotalInclVat](#)
  
- [ContractDescription](#)
  
- [ContractEndDate](#)
  
- [ContractID](#)
  
- [ContractMooring](#)
- Initial mooring for contract.*
- [ContractNotes](#)
  
- [ContractNumber](#)
  
- [ContractStartDate](#)
  
- [ContractStartDateInt](#)
  
- [ContractStatus](#)
- The status of the contract.*
- [ContractTab](#)
- Transient field for synchronising tabs in VB.*
- [ContractType](#)
- ' Temporary/Permanent/...*
- [CurrentBerth](#)
- The berth that the boat is currently in as of todays date.*
- [DepositAmount](#)
- Calculated deposit.*
- [DepositAmountValue](#)
- Calculated deposit.*
- [DepositValue](#)
- Deposit value if this is set by the user then it will override the.*
- [EffectiveBoatLength](#)
  
- [EffectiveBoatLengthValue](#)
  
- [FirstPrintedDate](#)
  
- [FixedBoatBeam](#)

- [FixedBoatLength](#)
- [GenerationDate](#)
- [Invoiced](#)
  - *Has an invoice been raised against this contract - includes.*
- [InvoicedAmount](#)
- [LengthXTariff](#)
- [LengthXTariffValue](#)
- [LengthXTariffXPeriod](#)
- [LengthXTariffXPeriodValue](#)
- [Locked](#)
- [MaximumNumberOfPayments](#)
- [Modified](#)
  - *Has the contract instance been changed.*
- [MooringChargeScheme](#)
  - *Which charging plan is this contract using.*
- [MooringFee](#)
- [MooringFeeInclVat](#)
- [MooringFeeInclVatValue](#)
- [MooringFeeLessDeposit](#)
- [MooringFeeValue](#)
- [MooringFeeVatAmount](#)
- [MooringTab](#)
  - *Transient property used for synchronising tabs in vb.*
- [NewContract](#)
  - *The contract that was generated based on this one.*
- [NumberOfPhasedPayments](#)
  - *Used in the payment schedule.*
- [OldStatus](#)
  - *if the contract status is changed then update this field*
- [PaymentMethod](#)
  - *How is the contract to be paid.*
- [PaymentScheme](#)
  - *Similar to Payment Type but refined to include 3-part and 8-part Phased.*
- [PaymentType](#)
  - *Deprecated.*
- [PerformBalanceTransfer](#)

- has confirmed been set to true? If so then if we transfer*
- [PermanentMooring](#)  
*Permanent Mooring - This boat may be moved.*
  - [PhasedContractValue](#)  
*Sum of the Scheduled Payments for this contract.*
  - [PhasedStartMonthOffset](#)  
*The month that the first phased payment is due.*
  - [PhasedStartYear](#)  
*The year in which the first phased payment is due.*
  - [Previewed](#)  
*Has the contract document been printed or print previewed.*
  - [PreviousContract](#)  
*The contract on which this contract is based.*
  - [PrintDocument](#)
  
  - [Printed](#)  
*Has the contract been printed.*
  - [ReceiptsTotal](#)  
*The total Receipts for a contract inclusive of VAT.*
  - [Revision](#)
  
  - [ServiceBalance](#)
  
  - [SpecialRate](#)  
*Mooring Fee entered by user which overrides calculated Mooring Fee.*
  - [TotalExclVat](#)
  
  - [TotalExclVatFixed](#)  
*The total after the contract has been locked.*
  - [TotalInclVat](#)
  
  - [TotalInclVatFixed](#)
  
  - [TotalPaidInAdvance](#)
  
  - [TotalVat](#)
  
  - [UnitPriceDescription](#)
  
  - [ValuesLocked](#)
  
  - [WholeAmountPhased](#)
  
  - [oldConfirmed](#)  
*Database value of the confirmed field.*

### 6.33.1 Detailed Description

Deltanji status:

Object	ClearWater.Contract.CLS/MARINA.0
Component	CLS.ClearWater.Contract
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.33.2 Member Function Documentation

### 6.33.2.1 CheckServiceCredit()

```

_.Library.Status CheckServiceCredit (
    _.Library.Boolean CheckCredit,
    _.Library.Boolean StopPoll,
    _.Library.String new )

```

Compares the [Contract](#) service Charges, by polling the addresses for meter readings, against the total pre-paid credit.

If none left, it turns off the chargable services. If the CheckCredit flag is false (0), the services are not turned off

StopPoll is used when called from the CurrentServices form in [ClearWater](#) The Polling is stopped and then restarted afterwards.

### 6.33.2.2 Confirm()

```

_.Library.Status Confirm ( )

```

Method to call on confirmation of contract.

If the balance is transferred when the contract is confirmed then perform the transfer

### 6.33.2.3 GenerateCredits()

```

_.Library.Status GenerateCredits ( )

```

Generate Credit Notes for Invoices associated with this contract.

Also delete any scheduled payments that have not been paid

#### 6.33.2.4 NextCurrentContract()

```
_.Library.String NextCurrentContract (
    _.Library.String direction,
    _.Library.String ipaddress,
    _.Library.String inberth ) [static]
```

Called from Next/Previous buttons on the main [ClearWater](#) Screen.

Used to navigate to the next berth with a current boat.

### 6.33.3 Member Data Documentation

#### 6.33.3.1 AccountBalance

AccountBalance

Calculate the balance of the account for the contract.

Take into account Invoices/Receipts/refunds/credit notes/

returns a string with DB or CR appended to total

#### 6.33.3.2 AccountBalanceReport

AccountBalanceReport

returns numeric vector balance

#### 6.33.3.3 ActualCanxDate

ActualCanxDate

The day the cancellation was done.

#### 6.33.3.4 AllocatedAmount

AllocatedAmount

### 6.33.3.5 Annulled

Annulled

### 6.33.3.6 ApplicableTariff

ApplicableTariff

The mooring tariff for the area in which this boat is.

### 6.33.3.7 ApplicableTariffDescription

ApplicableTariffDescription

### 6.33.3.8 ApplicableTariffValue

ApplicableTariffValue

The mooring tariff for the area in which this boat is.

### 6.33.3.9 ApplicableTariffVat

ApplicableTariffVat

Should be calculated field, not implemented yet.

TH 8/5/03

### 6.33.3.10 ApplicableTariffVatValue

ApplicableTariffVatValue

Should be calculated field, not implemented yet.

TH 8/5/03

**6.33.3.11 ApplicableVatCode**

ApplicableVatCode

**6.33.3.12 ApplicableVatCodeValue**

ApplicableVatCodeValue

**6.33.3.13 ApplicableVatId**

ApplicableVatId

**6.33.3.14 ApplicableVatIdValue**

ApplicableVatIdValue

**6.33.3.15 ApplicableVatRate**

ApplicableVatRate

**6.33.3.16 ApplicableVatRateValue**

ApplicableVatRateValue

### 6.33.3.17 Boat

Boat

The boat to which the contract applies.

### 6.33.3.18 BoatTab

BoatTab

Transient field for synchronising tabs in vb.

### 6.33.3.19 CancelCredit

CancelCredit

As part of the cancelling process credit any invoices against.

this invoice

0 - do nothing 1 - this contract has just been cancelled - so credit any invoices

### 6.33.3.20 CancellationReason

CancellationReason

### 6.33.3.21 Cancelled

Cancelled

Is the [Contract](#) cancelled ?

1 cancelled 0 not cancelled

### 6.33.3.22 Cancelling

Cancelling

Set when the user cancels the contract so that when the save.

is being done we know to go and create credit notes for invoices [MDL](#) - only



**6.33.3.23 ChargeCount**

ChargeCount

**6.33.3.24 CheckIn**

CheckIn

**6.33.3.25 Confirmed**

Confirmed

Is the contract confirmed ?

1 confirmed 0 not confirmed

**6.33.3.26 Contacted**

Contacted

Has the licensee been contated about the confirmation of the.

contract?

0 no 1 yes

Used for when future contracts are confirmed by default (to show space as used) so that the user knows whether to cancel the contract

**6.33.3.27 ContractBoatBeam**

ContractBoatBeam

**6.33.3.28 ContractBoatLength**

ContractBoatLength

**6.33.3.29 ContractCanxDate**

ContractCanxDate

The effective date of the cancellation.

**6.33.3.30 ContractChargeTotal**

ContractChargeTotal

The sum of the [Contract](#) Charges due for this contract.

Exclusive of [Vat](#)

**6.33.3.31 ContractChargeTotalInclVat**

ContractChargeTotalInclVat

**6.33.3.32 ContractDescription**

ContractDescription

**6.33.3.33 ContractEndDate**

ContractEndDate

**6.33.3.34 ContractID**

ContractID

**6.33.3.35 ContractMooring**

ContractMooring

Initial mooring for contract.

Note: this may not be the current mooring

**6.33.3.36 ContractNotes**

ContractNotes

**6.33.3.37 ContractNumber**

ContractNumber

**6.33.3.38 ContractStartDate**

ContractStartDate

**6.33.3.39 ContractStartDateInt**

ContractStartDateInt

**6.33.3.40 ContractStatus**

ContractStatus

The status of the contract.

Current Previous Future a non confirmed contract in the future (will not become active) Confirmed a confirmed contract in the future (will become active) Cancelled

#### 6.33.3.41 ContractTab

ContractTab

Transient field for synchronising tabs in VB.

#### 6.33.3.42 ContractType

ContractType

' Temporary/Permanent/...

#### 6.33.3.43 CurrentBerth

CurrentBerth

The berth that the boat is currently in as of todays date.

#### 6.33.3.44 DepositAmount

DepositAmount

Calculated deposit.

If DepositValue field is populated then return this otherwis calculate deposit based on parameters in options

#### 6.33.3.45 DepositAmountValue

DepositAmountValue

Calculated deposit.

If DepositValue field is populated then return this otherwis calculate deposit based on parameters in options

#### 6.33.3.46 DepositValue

DepositValue

Deposit value if this is set by the user then it will override the.

calculated DepoistAmount field

**6.33.3.47 EffectiveBoatLength**

EffectiveBoatLength

**6.33.3.48 EffectiveBoatLengthValue**

EffectiveBoatLengthValue

**6.33.3.49 FirstPrintedDate**

FirstPrintedDate

**6.33.3.50 FixedBoatBeam**

FixedBoatBeam

**6.33.3.51 FixedBoatLength**

FixedBoatLength

**6.33.3.52 GenerationDate**

GenerationDate

**6.33.3.53 Invoiced**

Invoiced

Has an invoice been raised against this contract - includes.

invoices made using adhoc method and linked to contract

**6.33.3.54 InvoicedAmount**

InvoicedAmount

**6.33.3.55 LengthXTariff**

LengthXTariff

**6.33.3.56 LengthXTariffValue**

LengthXTariffValue

**6.33.3.57 LengthXTariffXPeriod**

LengthXTariffXPeriod

**6.33.3.58 LengthXTariffXPeriodValue**

LengthXTariffXPeriodValue

**6.33.3.59 Locked**

Locked

**6.33.3.60 MaximumNumberOfPayments**

MaximumNumberOfPayments

**6.33.3.61 Modified**

Modified

Has the contract instance been changed.

1 yes 0 no

**6.33.3.62 MooringChargeScheme**

MooringChargeScheme

Which charging plan is this contract using.

ie Annual or Monthly or daily etc

**6.33.3.63 MooringFee**

MooringFee

**6.33.3.64 MooringFeeInclVat**

MooringFeeInclVat

**6.33.3.65 MooringFeeInclVatValue**

MooringFeeInclVatValue

**6.33.3.66 MooringFeeLessDeposit**

MooringFeeLessDeposit

**6.33.3.67 MooringFeeValue**

MooringFeeValue

**6.33.3.68 MooringFeeVatAmount**

MooringFeeVatAmount

**6.33.3.69 MooringTab**

MooringTab

Transient property used for synchronising tabs in vb.

**6.33.3.70 NewContract**

NewContract

The contract that was generated based on this one.



### 6.33.3.71 NumberOfPhasedPayments

NumberOfPhasedPayments

Used in the payment schedule.

### 6.33.3.72 OldStatus

OldStatus

if the contract status is changed then update this field

then when saving the contract compare the status with this field

if the two values are different then [Audit](#) the new Status

### 6.33.3.73 PaymentMethod

PaymentMethod

How is the contract to be paid.

ie Cheque/Credit Card/Direct Debit...

### 6.33.3.74 PaymentScheme

PaymentScheme

Similar to Payment Type but refined to include 3-part and 8-part Phased.

### 6.33.3.75 PaymentType

PaymentType

Deprecated.

Don't use this property. Use paymenttype instead

Advanced/Phased

### 6.33.3.76 PerformBalanceTransfer

PerformBalanceTransfer

has confirmed been set to true? If so then if we transfer

balances between contracts do it

### 6.33.3.77 PermanentMooring

PermanentMooring

Permanent [Mooring](#) - This boat may be moved.

This indicates the mooring to use for a renewal.

### 6.33.3.78 PhasedContractValue

PhasedContractValue

Sum of the Scheduled Payments for this contract.

### 6.33.3.79 PhasedStartMonthOffset

PhasedStartMonthOffset

The month that the first phased payment is due.

### 6.33.3.80 PhasedStartYear

PhasedStartYear

The year in which the first phased payment is due.

### 6.33.3.81 Previewed

Previewed

Has the contract document been printed or print previewed.

### 6.33.3.82 PreviousContract

PreviousContract

The contract on which this contract is based.

**6.33.3.83 PrintDocument**

PrintDocument

**6.33.3.84 Printed**

Printed

Has the contract been printed.

**6.33.3.85 ReceiptsTotal**

ReceiptsTotal

The total Receipts for a contract inclusive of VAT.

The calculated is derived in different ways, depending whether the site actually uses Receipts. If they do not it is the total [Invoice](#) - Associated Credit Notes e.g. for Dean & Reddyhoff.

**6.33.3.86 Revision**

Revision

**6.33.3.87 ServiceBalance**

ServiceBalance

**6.33.3.88 SpecialRate**

SpecialRate

[Mooring](#) Fee entered by user which overrides calculated [Mooring](#) Fee.

**6.33.3.89 TotalExclVat**

TotalExclVat

**6.33.3.90 TotalExclVatFixed**

TotalExclVatFixed

The total after the contract has been locked.

**6.33.3.91 TotalInclVat**

TotalInclVat

**6.33.3.92 TotalInclVatFixed**

TotalInclVatFixed

**6.33.3.93 TotalPaidInAdvance**

TotalPaidInAdvance

**6.33.3.94 TotalVat**

TotalVat

### 6.33.3.95 UnitPriceDescription

UnitPriceDescription

### 6.33.3.96 ValuesLocked

ValuesLocked

### 6.33.3.97 WholeAmountPhased

WholeAmountPhased

### 6.33.3.98 oldConfirmed

oldConfirmed

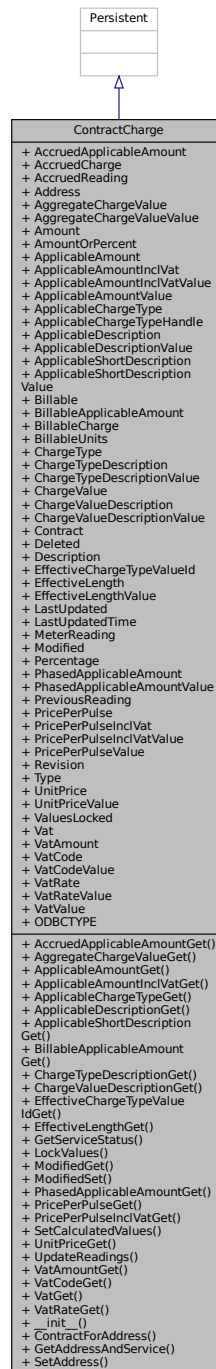
Database value of the confirmed field.

If we have changed the confirmed field in the open instance, use this to get the previous value

## 6.34 ContractCharge Class Reference

[Service](#) routine is smmas180.mac

Inheritance diagram for ContractCharge:



## Public Member Functions

- `_.Library.Float ApplicableAmountInclVatGet ()`  
*Method name length limit means we can't call it ..Calculate.*
- `_.Library.String GetServiceStatus ()`  
*Find whether the service for this contract charge is switched on or off.*
- `_.Library.Status UpdateReadings (_.Library.String S)`  
*Update readings from Bollards...*

## Static Public Member Functions

- `_.Library.Integer` [GetAddressAndService](#) (`_.Library.String` contractid, `_.Library.String` addresses, `_.Library.↔String` services)  
*return all address for in use by contract charges for the contract*
- `_.Library.Integer` [SetAddress](#) (`_.Library.String` serviceid, `_.Library.Integer` address, `_.Library.String` contractid, `_.Library.String` on)  
*set the address for the selected service for the contract charge*

## Public Attributes

- [AccruedApplicableAmount](#)
- [AccruedCharge](#)  
*The total amount owed for the accrued usage.*
- [AccruedReading](#)
- [Address](#)  
*' Keep track off which mooring/address we're talking to*
- [AggregateChargeValue](#)
- [AggregateChargeValueValue](#)
- [Amount](#)
- [AmountOrPercent](#)
- [ApplicableAmount](#)  
*Use in invoices to find the unit price.*
- [ApplicableAmountInclVat](#)
- [ApplicableAmountInclVatValue](#)
- [ApplicableAmountValue](#)
- [ApplicableChargeType](#)
- [ApplicableChargeTypeHandle](#)
- [ApplicableDescription](#)
- [ApplicableDescriptionValue](#)
- [ApplicableShortDescription](#)
- [ApplicableShortDescriptionValue](#)
- [Billable](#)
- [BillableApplicableAmount](#)

- [BillableCharge](#)
  - The cost of the outstanding billable units.*
- [BillableUnits](#)
  
- [ChargeType](#)
  
- [ChargeTypeDescription](#)
  
- [ChargeTypeDescriptionValue](#)
  
- [ChargeValue](#)
  - This is a value which is set to override the chargevalue.*
- [ChargeValueDescription](#)
  
- [ChargeValueDescriptionValue](#)
  
- [Contract](#)
  
- [Deleted](#)
  - Used to indicate that in-memory instance has been deleted.*
- [Description](#)
  
- [EffectiveChargeTypeValueId](#)
  
- [EffectiveLength](#)
  
- [EffectiveLengthValue](#)
  
- [LastUpdated](#)
  
- [LastUpdatedTime](#)
  
- [MeterReading](#)
  
- [Modified](#)
  
- [Percentage](#)
  
- [PhasedApplicableAmount](#)
  
- [PhasedApplicableAmountValue](#)
  
- [PreviousReading](#)
  
- [PricePerPulse](#)
  
- [PricePerPulseInclVat](#)
  
- [PricePerPulseInclVatValue](#)



- [PricePerPulseValue](#)
- [Revision](#)
- [Type](#)  
= "Service" Or "Mooring"
- [UnitPrice](#)
- [UnitPriceValue](#)
- [ValuesLocked](#)
- [Vat](#)
- [VatAmount](#)
- [VatCode](#)
- [VatCodeValue](#)
- [VatRate](#)
- [VatRateValue](#)
- [VatValue](#)  
*The ID value of the the applicable vat.*

### 6.34.1 Detailed Description

[Service](#) routine is smmas180.mac

.

Deltanji status:

Object	ClearWater.ContractCharge.CLS/MARINA.0
Component	CLS.ClearWater.ContractCharge
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.34.2 Member Function Documentation

#### 6.34.2.1 UpdateReadings()

```

__Library.Status UpdateReadings (
    __Library.String S )

```

Update readings from Bollards...

Note: argument is an array of meter readings

### 6.34.3 Member Data Documentation

#### 6.34.3.1 AccruedApplicableAmount

AccruedApplicableAmount

#### 6.34.3.2 AccruedCharge

AccruedCharge

The total amount owed for the accrued usage.

#### 6.34.3.3 AccruedReading

AccruedReading

#### 6.34.3.4 Address

[Address](#)

' Keep track off which mooring/address we're talking to

#### 6.34.3.5 AggregateChargeValue

AggregateChargeValue

### 6.34.3.6 AggregateChargeValueValue

AggregateChargeValueValue

### 6.34.3.7 Amount

Amount

### 6.34.3.8 AmountOrPercent

AmountOrPercent

### 6.34.3.9 ApplicableAmount

ApplicableAmount

Use in invoices to find the unit price.

( the invoice line will contain rounding down logic)

Do not use to find the contract total

### 6.34.3.10 ApplicableAmountInclVat

ApplicableAmountInclVat

### 6.34.3.11 ApplicableAmountInclVatValue

ApplicableAmountInclVatValue

**6.34.3.12 ApplicableAmountValue**

ApplicableAmountValue

**6.34.3.13 ApplicableChargeType**

ApplicableChargeType

**6.34.3.14 ApplicableChargeTypeHandle**

ApplicableChargeTypeHandle

**6.34.3.15 ApplicableDescription**

ApplicableDescription

**6.34.3.16 ApplicableDescriptionValue**

ApplicableDescriptionValue

**6.34.3.17 ApplicableShortDescription**

ApplicableShortDescription

**6.34.3.18 ApplicableShortDescriptionValue**

ApplicableShortDescriptionValue

**6.34.3.19 Billable**

Billable

**6.34.3.20 BillableApplicableAmount**

BillableApplicableAmount

**6.34.3.21 BillableCharge**

BillableCharge

The cost of the outstanding billable units.

**6.34.3.22 BillableUnits**

BillableUnits

**6.34.3.23 ChargeType**

[ChargeType](#)

#### 6.34.3.24 ChargeTypeDescription

ChargeTypeDescription

#### 6.34.3.25 ChargeTypeDescriptionValue

ChargeTypeDescriptionValue

#### 6.34.3.26 ChargeValue

ChargeValue

This is a value which is set to override the chargetypevalue.

may represent an amount or a percentage

#### 6.34.3.27 ChargeValueDescription

ChargeValueDescription

#### 6.34.3.28 ChargeValueDescriptionValue

ChargeValueDescriptionValue

#### 6.34.3.29 Contract

[Contract](#)

### 6.34.3.30 Deleted

Deleted

Used to indicate that in-memory instance has been deleted.

### 6.34.3.31 Description

Description

### 6.34.3.32 EffectiveChargeTypeValueId

EffectiveChargeTypeValueId

### 6.34.3.33 EffectiveLength

EffectiveLength

### 6.34.3.34 EffectiveLengthValue

EffectiveLengthValue

### 6.34.3.35 LastUpdated

LastUpdated

**6.34.3.36 LastUpdatedTime**

LastUpdatedTime

**6.34.3.37 MeterReading**

MeterReading

**6.34.3.38 Modified**

Modified

**6.34.3.39 Percentage**

Percentage

**6.34.3.40 PhasedApplicableAmount**

PhasedApplicableAmount

**6.34.3.41 PhasedApplicableAmountValue**

PhasedApplicableAmountValue



**6.34.3.42 PreviousReading**

PreviousReading

**6.34.3.43 PricePerPulse**

PricePerPulse

**6.34.3.44 PricePerPulseInclVat**

PricePerPulseInclVat

**6.34.3.45 PricePerPulseInclVatValue**

PricePerPulseInclVatValue

**6.34.3.46 PricePerPulseValue**

PricePerPulseValue

**6.34.3.47 Revision**

Revision

#### 6.34.3.48 Type

Type

= "Service" Or "Mooring"

"Mooring" contract charges are upfront and include loyalty bonus renewal etc these appear in the [Contract](#) window on the main form

"Service" charges ie Water/Electricity are invoiced later

#### 6.34.3.49 UnitPrice

UnitPrice

#### 6.34.3.50 UnitPriceValue

UnitPriceValue

#### 6.34.3.51 ValuesLocked

ValuesLocked

#### 6.34.3.52 Vat

[Vat](#)

#### 6.34.3.53 VatAmount

VatAmount

**6.34.3.54 VatCode**

VatCode

**6.34.3.55 VatCodeValue**

VatCodeValue

**6.34.3.56 VatRate**

VatRate

**6.34.3.57 VatRateValue**

VatRateValue

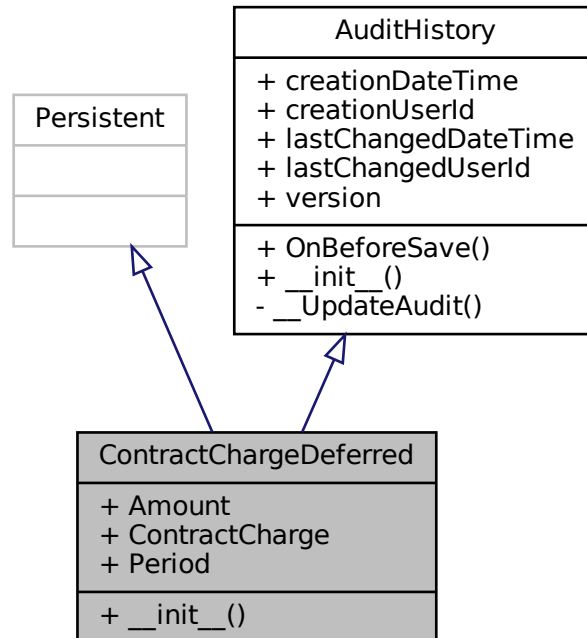
**6.34.3.58 VatValue**

VatValue

The ID value of the the applicable vat.

## 6.35 ContractChargeDeferred Class Reference

Inheritance diagram for ContractChargeDeferred:



### Public Attributes

- [Amount](#)
- [ContractCharge](#)
- [Period](#)

### Additional Inherited Members

#### 6.35.1 Detailed Description

Deltanji status:

Object	Codis.ContractChargeDeferred.CLS/MARINA.0
Component	CLS.Codis.ContractChargeDeferred
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.35.2 Member Data Documentation

### 6.35.2.1 Amount

Amount

### 6.35.2.2 ContractCharge

ContractCharge

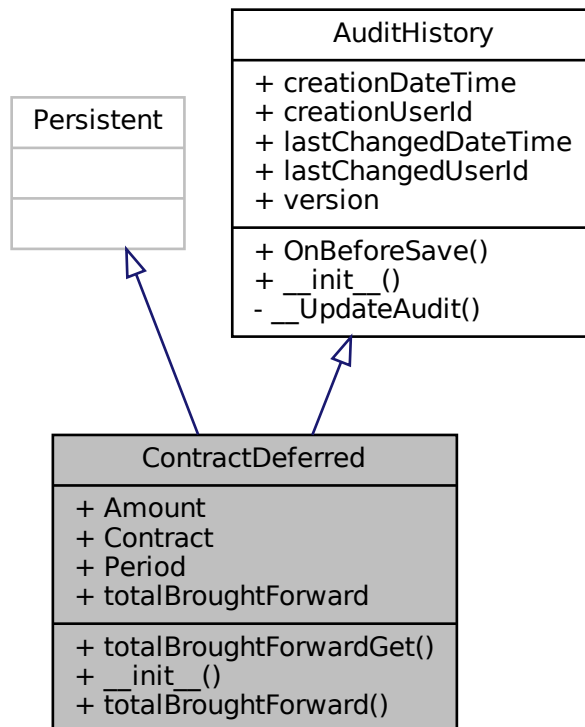
### 6.35.2.3 Period

Period

## 6.36 ContractDeferred Class Reference

A record of deferred income for a contract's mooring fees.

Inheritance diagram for ContractDeferred:



## Public Attributes

- [Amount](#)
- [Contract](#)
- [Period](#)
- [totalBroughtForward](#)

## Additional Inherited Members

### 6.36.1 Detailed Description

A record of deferred income for a contract's mooring fees.

As deferred income is generated each period it is stored here.

Deltanji status:

Object	Codis.ContractDeferred.CLS/MARINA.0
Component	CLS.Codis.ContractDeferred
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.36.2 Member Data Documentation

### 6.36.2.1 Amount

Amount

### 6.36.2.2 Contract

Contract

### 6.36.2.3 Period

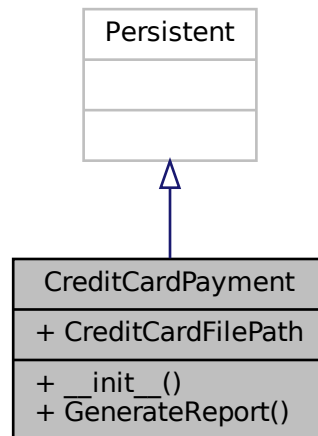
Period

### 6.36.2.4 totalBroughtForward

totalBroughtForward

## 6.37 CreditCardPayment Class Reference

Inheritance diagram for CreditCardPayment:



### Public Attributes

- [CreditCardFilePath](#)

### 6.37.1 Detailed Description

Deltanji status:

Object	ClearWater.CreditCardPayment.CLS/MARINA.0
Component	CLS.ClearWater.CreditCardPayment
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.37.2 Member Data Documentation

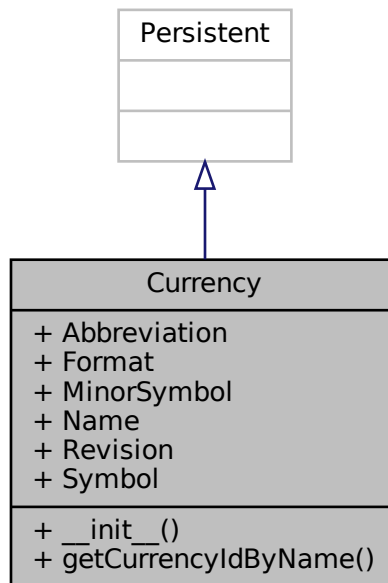
#### 6.37.2.1 CreditCardFilePath

`CreditCardFilePath`



## 6.38 Currency Class Reference

Inheritance diagram for Currency:



### Static Public Member Functions

- `_.Library.String getCurrencyIdByName (_.Library.String name)`  
*Get Currency Id from Currency Name.*

### Public Attributes

- `Abbreviation`
- `Format`
- `MinorSymbol`
- `Name`
- `Revision`
- `Symbol`

*e.g.*

### 6.38.1 Detailed Description

Deltanji status:

Object	ClearWater.Currency.CLS/MARINA.0
Component	CLS.ClearWater.Currency
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.38.2 Member Data Documentation

### 6.38.2.1 Abbreviation

Abbreviation

### 6.38.2.2 Format

Format

### 6.38.2.3 MinorSymbol

MinorSymbol

### 6.38.2.4 Name

Name

### 6.38.2.5 Revision

Revision

### 6.38.2.6 Symbol

Symbol

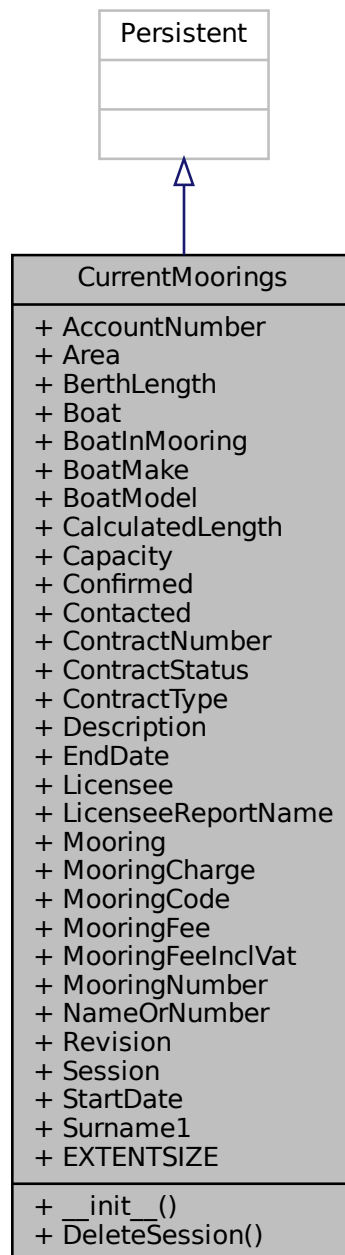
e.g.

£ or ascii code 163

## 6.39 Current Moorings Class Reference

[WorkFile](#) class used for reporting It only contains data when the current Moorings report is run.

Inheritance diagram for CurrentMoorings:



## Public Attributes

- [AccountNumber](#)
- [Area](#)
- [BerthLength](#)

- Boat
  - Boat Name.*
- BoatInMooring
- BoatMake
- BoatModel
- CalculatedLength
- Capacity
- Confirmed
- Contacted
  - Has the licensee been contacted.*
- ContractNumber
- ContractStatus
- ContractType
- Description
- EndDate
- Licensee
- LicenseeReportName
- Mooring
- MooringCharge
- MooringCode
- MooringFee
- MooringFeeInclVat
- MooringNumber
- NameOrNumber
- Revision
- Session
- StartDate
- Surname1

### 6.39.1 Detailed Description

[WorkFile](#) class used for reporting It only contains data when the current Moorings report is run.

Deltanji status:

Object	ClearWater.CurrentMoorings.CLS/MARINA.0
Component	CLS.ClearWater.CurrentMoorings
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.39.2 Member Data Documentation

#### 6.39.2.1 AccountNumber

`AccountNumber`

#### 6.39.2.2 Area

`Area`

#### 6.39.2.3 BerthLength

`BerthLength`

#### 6.39.2.4 Boat

`Boat`

`Boat` Name.

### 6.39.2.5 BoatInMooring

`BoatInMooring`

### 6.39.2.6 BoatMake

`BoatMake`

### 6.39.2.7 BoatModel

`BoatModel`

### 6.39.2.8 CalculatedLength

`CalculatedLength`

### 6.39.2.9 Capacity

`Capacity`

### 6.39.2.10 Confirmed

`Confirmed`

**6.39.2.11 Contacted**

Contacted

Has the licensee been contacted.

to confirm/cancel the future contract

**6.39.2.12 ContractNumber**

ContractNumber

**6.39.2.13 ContractStatus**

ContractStatus

**6.39.2.14 ContractType**

ContractType

**6.39.2.15 Description**

Description

**6.39.2.16 EndDate**

EndDate



### 6.39.2.17 Licensee

Licensee

### 6.39.2.18 LicenseeReportName

LicenseeReportName

### 6.39.2.19 Mooring

Mooring

### 6.39.2.20 MooringCharge

MooringCharge

### 6.39.2.21 MooringCode

MooringCode

### 6.39.2.22 MooringFee

MooringFee

**6.39.2.23 MooringFeeInclVat**

MooringFeeInclVat

**6.39.2.24 MooringNumber**

MooringNumber

**6.39.2.25 NameOrNumber**

NameOrNumber

**6.39.2.26 Revision**

Revision

**6.39.2.27 Session**

Session

**6.39.2.28 StartDate**

StartDate

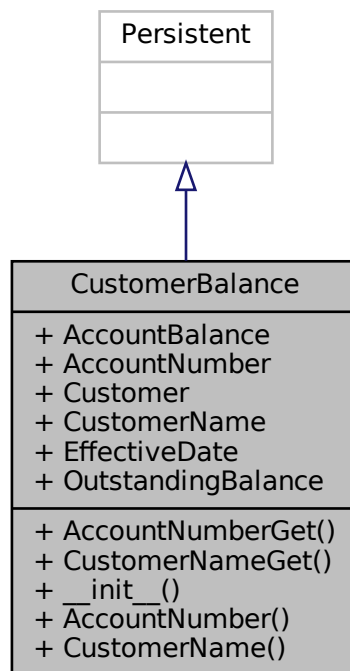
## 6.39.2.29 Surname1

Surname1

## 6.40 CustomerBalance Class Reference

Customer Balance at end of day after Sage Extract has been run.

Inheritance diagram for CustomerBalance:



## Public Attributes

- [AccountBalance](#)  
*The customer account balance inclusive of all invoices,.*
- [AccountNumber](#)
- [Customer](#)
- [CustomerName](#)
- [EffectiveDate](#)  
*Effective Date of customer's balance.*
- [OutstandingBalance](#)  
*The value of transactions that have not yet been exported to Sage.*

### 6.40.1 Detailed Description

Customer Balance at end of day after Sage Extract has been run.

Deltanji status:

Object	Codis.CustomerBalance.CLS/MARINA.0
Component	CLS.Codis.CustomerBalance
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.40.2 Member Data Documentation

#### 6.40.2.1 AccountBalance

AccountBalance

The customer account balance inclusive of all invoices,.

less credit notes, less cash receipts, less DD's, plus refunds, plus bounced - essentially what Clearwater thinks the customer owes [MDL](#) at the end of the date specified by Effective Date.

#### 6.40.2.2 AccountNumber

AccountNumber

#### 6.40.2.3 Customer

Customer

#### 6.40.2.4 CustomerName

CustomerName

### 6.40.2.5 EffectiveDate

EffectiveDate

Effective Date of customer's balance.

All transactions

up to and including the this date are included in the customer's balance.

### 6.40.2.6 OutstandingBalance

OutstandingBalance

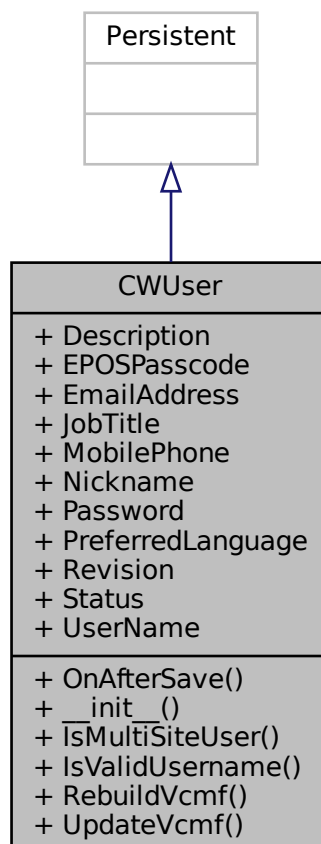
The value of transactions that have not yet been exported to Sage.

Typically this will be the value of unbanked receipts/refunds.

It may include banked transactions that have not yet been exported to Sage??

## 6.41 CWUser Class Reference

Inheritance diagram for CWUser:



## Public Attributes

- [Description](#)
- [EPOSPasscode](#)
- [EmailAddress](#)
- [JobTitle](#)
- [MobilePhone](#)
- [Nickname](#)
- [Password](#)
- [PreferredLanguage](#)
- [Revision](#)
- [Status](#)
- [UserName](#)

### 6.41.1 Detailed Description

Deltanji status:

Object	ClearWater.CWUser.CLS/MARINA.0
Component	CLS.ClearWater.CWUser
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.41.2 Member Data Documentation

#### 6.41.2.1 Description

Description

### 6.41.2.2 EPOSPasscode

EPOSPasscode

### 6.41.2.3 EmailAddress

EmailAddress

### 6.41.2.4 JobTitle

JobTitle

### 6.41.2.5 MobilePhone

MobilePhone

### 6.41.2.6 Nickname

Nickname

### 6.41.2.7 Password

Password

### 6.41.2.8 PreferredLanguage

PreferredLanguage

### 6.41.2.9 Revision

Revision

### 6.41.2.10 Status

Status

### 6.41.2.11 UserName

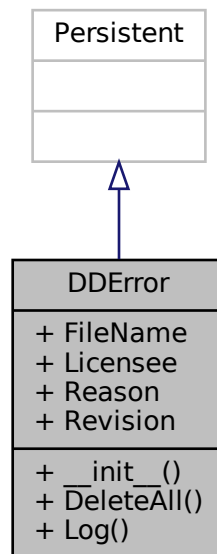
UserName

## 6.42 DDError Class Reference

Log of Errors during a DD run.



Inheritance diagram for DDError:



## Public Attributes

- [FileName](#)
- [Licensee](#)
- [Reason](#)
- [Revision](#)

### 6.42.1 Detailed Description

Log of Errors during a DD run.

Deltanji status:

Object	ClearWater.DDError.CLS/MARINA.0
Component	CLS.ClearWater.DDError
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.42.2 Member Data Documentation

### 6.42.2.1 FileName

FileName

### 6.42.2.2 Licensee

[Licensee](#)

### 6.42.2.3 Reason

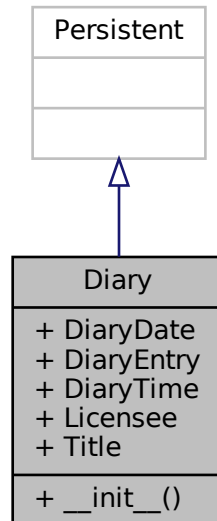
Reason

### 6.42.2.4 Revision

Revision

## 6.43 Diary Class Reference

Inheritance diagram for Diary:



### Public Attributes

- [DiaryDate](#)
- [DiaryEntry](#)
- [DiaryTime](#)
- [Licensee](#)
- [Title](#)

### 6.43.1 Detailed Description

Deltanji status:

Object	ClearWater.Diary.CLS/MARINA.0
Component	CLS.ClearWater.Diary
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.43.2 Member Data Documentation

### 6.43.2.1 DiaryDate

DiaryDate

### 6.43.2.2 DiaryEntry

DiaryEntry

### 6.43.2.3 DiaryTime

DiaryTime

### 6.43.2.4 Licensee

[Licensee](#)

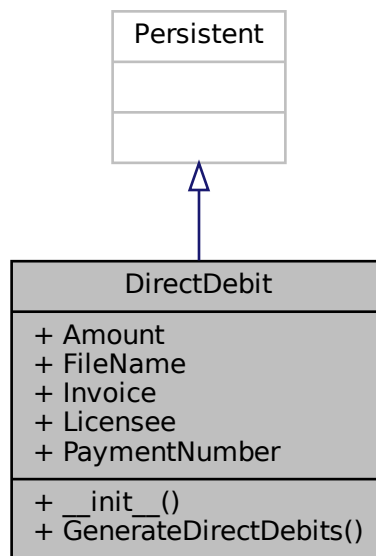
### 6.43.2.5 Title

Title

## 6.44 DirectDebit Class Reference

Work file for pre-processing direct debit bacs file.

Inheritance diagram for DirectDebit:



### Public Attributes

- [Amount](#)
- [FileName](#)
- [Invoice](#)
- [Licensee](#)
- [PaymentNumber](#)

#### 6.44.1 Detailed Description

Work file for pre-processing direct debit bacs file.

Deltanji status:

Object	ClearWater.DirectDebit.CLS/MARINA.0
Component	CLS.ClearWater.DirectDebit
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.44.2 Member Data Documentation

### 6.44.2.1 Amount

Amount

### 6.44.2.2 FileName

FileName

### 6.44.2.3 Invoice

[Invoice](#)

### 6.44.2.4 Licensee

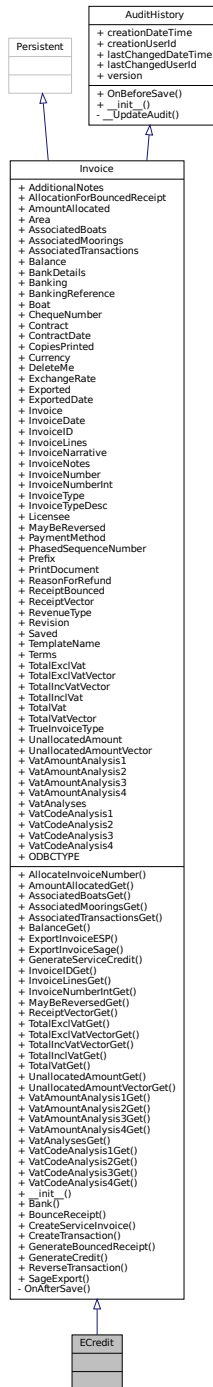
[Licensee](#)

### 6.44.2.5 PaymentNumber

PaymentNumber

## 6.45 ECredit Class Reference

Inheritance diagram for ECredit:



### Additional Inherited Members

#### 6.45.1 Detailed Description

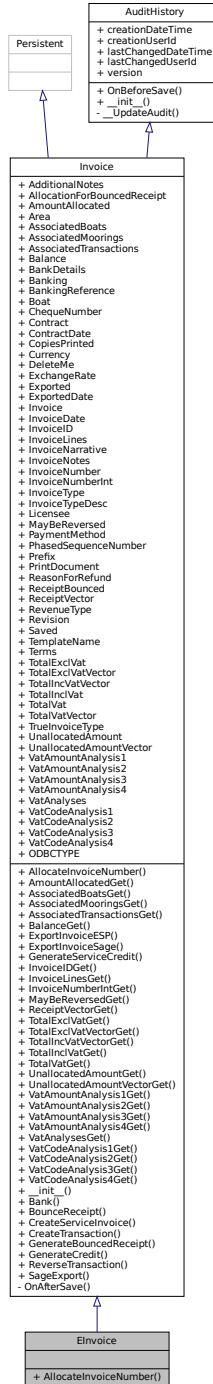
Deltanji status:

Object	ClearWater.ECredit.CLS/MARINA.0
Component	CLS.ClearWater.ECredit
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm



## 6.46 Invoice Class Reference

Inheritance diagram for EInvoice:



### Public Member Functions

- `_.Library.String AllocateInvoiceNumber ()`

*If the Transaction is a Receipt the method checks whether the Receipt numbers are from a.*

## Additional Inherited Members

### 6.46.1 Detailed Description

Deltanji status:

Object	ClearWater.ElInvoice.CLS/MARINA.0
Component	CLS.ClearWater.ElInvoice
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.46.2 Member Function Documentation

#### 6.46.2.1 AllocateInvoiceNumber()

```
_.Library.String AllocateInvoiceNumber ( )
```

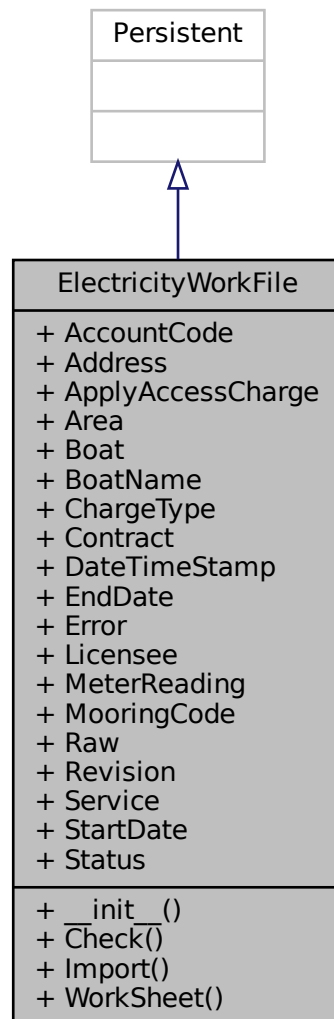
If the Transaction is a Receipt the method checks whether the Receipt numbers are from a separate file, if so the ReceiptNumber.AllocateReceiptNumber method is called.

Reimplemented from [Invoice](#).

## 6.47 ElectricityWorkFile Class Reference

[WorkFile](#) for the import of Electricity readings.

Inheritance diagram for ElectricityWorkFile:



### Static Public Member Functions

- `_.Library.Status Check (_.Library.String filename, _.Library.Integer errors, _.Library.Date importdate, _↔ Library.Date hStartDate, _.Library.Date hEndDate, _.Library.String areald)`  
*WorkFile for the import of Electricity readings.*

### Public Attributes

- `AccountCode`
- `Address`

- [ApplyAccessCharge](#)  
*Apply fixed [Service](#) charge.*
- [Area](#)
- [Boat](#)
- [BoatName](#)
- [ChargeType](#)
- [Contract](#)
- [DateTimeStamp](#)
- [EndDate](#)
- [Error](#)
- [Licensee](#)
- [MeterReading](#)
- [MooringCode](#)
- [Raw](#)  
*The original line from the import file.*
- [Revision](#)
- [Service](#)
- [StartDate](#)
- [Status](#)  
*0 - OK*

### 6.47.1 Detailed Description

[WorkFile](#) for the import of Electricity readings.

Deltanji status:

Object	ClearWater.ElectricityWorkFile.CLS/MARINA.0
Component	CLS.ClearWater.ElectricityWorkFile
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.47.2 Member Function Documentation

### 6.47.2.1 Check()

```

_.Library.Status Check (
    _.Library.String filename,
    _.Library.Integer errors,
    _.Library.Date importdate,
    _.Library.Date hStartDate,
    _.Library.Date hEndDate,
    _.Library.String areaId ) [static]

```

[WorkFile](#) for the import of Electricity readings.

Deltanji status:

Object	ClearWater.ElectricityWorkFile.CLS/MARINA.0
Component	CLS.ClearWater.ElectricityWorkFile
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.47.3 Member Data Documentation

### 6.47.3.1 AccountCode

AccountCode

### 6.47.3.2 Address

[Address](#)

### 6.47.3.3 ApplyAccessCharge

ApplyAccessCharge

Apply fixed [Service](#) charge.

eg Quarterly rental.

#### 6.47.3.4 Area

[Area](#)

#### 6.47.3.5 Boat

[Boat](#)

#### 6.47.3.6 BoatName

[BoatName](#)

#### 6.47.3.7 ChargeType

[ChargeType](#)

#### 6.47.3.8 Contract

[Contract](#)

#### 6.47.3.9 DateTimeStamp

[DateTimeStamp](#)

**6.47.3.10 EndDate**

EndDate

**6.47.3.11 Error**

Error

**6.47.3.12 Licensee**

[Licensee](#)

**6.47.3.13 MeterReading**

MeterReading

**6.47.3.14 MooringCode**

MooringCode

**6.47.3.15 Raw**

Raw

The original line from the import file.

### 6.47.3.16 Revision

Revision

### 6.47.3.17 Service

Service

### 6.47.3.18 StartDate

StartDate

### 6.47.3.19 Status

Status

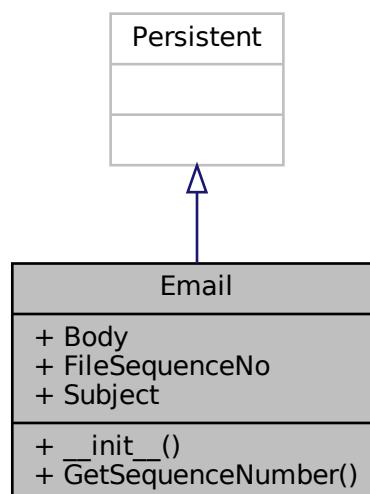
0 - OK

1 - Error in record

## 6.48 Email Class Reference

[Email](#) options etc.

Inheritance diagram for Email:





## Public Attributes

- [Body](#)
- [FileSequenceNo](#)  
*File sequence number.*
- [Subject](#)

### 6.48.1 Detailed Description

[Email](#) options etc.

Deltanji status:

Object	ClearWater.Email.CLS/MARINA.0
Component	CLS.ClearWater.Email
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.48.2 Member Data Documentation

#### 6.48.2.1 Body

Body

#### 6.48.2.2 FileSequenceNo

FileSequenceNo

File sequence number.

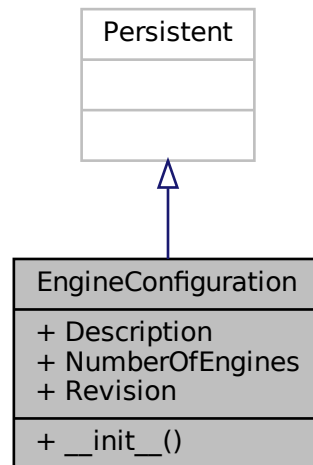
The [Email](#) file number.

#### 6.48.2.3 Subject

Subject

## 6.49 EngineConfiguration Class Reference

Inheritance diagram for EngineConfiguration:



### Public Attributes

- [Description](#)
- [NumberOfEngines](#)
- [Revision](#)

### 6.49.1 Detailed Description

Deltanji status:

Object	ClearWater.EngineConfiguration.CLS/MARINA.0
Component	CLS.ClearWater.EngineConfiguration
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.49.2 Member Data Documentation

### 6.49.2.1 Description

Description

### 6.49.2.2 NumberOfEngines

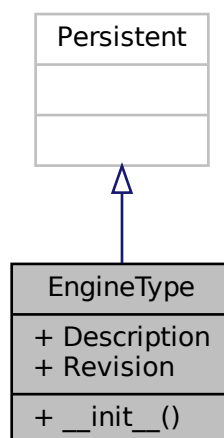
NumberOfEngines

### 6.49.2.3 Revision

Revision

## 6.50 EngineType Class Reference

Inheritance diagram for EngineType:



## Public Attributes

- [Description](#)
- [Revision](#)

### 6.50.1 Detailed Description

Deltanji status:

Object	ClearWater.EngineType.CLS/MARINA.0
Component	CLS.ClearWater.EngineType
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.50.2 Member Data Documentation

#### 6.50.2.1 Description

Description

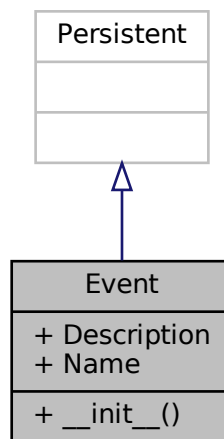
#### 6.50.2.2 Revision

Revision

## 6.51 Event Class Reference

[Event](#) to be held at the marina - e.g.

Inheritance diagram for Event:



### Public Attributes

- [Description](#)
- [Name](#)

#### 6.51.1 Detailed Description

[Event](#) to be held at the marina - e.g.

Cowes week.

Deltanji status:

Object	ClearWater.Event.CLS/MARINA.0
Component	CLS.ClearWater.Event
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.51.2 Member Data Documentation

### 6.51.2.1 Description

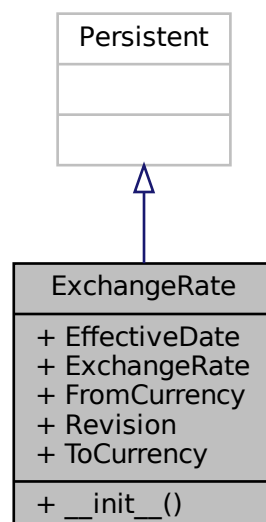
Description

### 6.51.2.2 Name

Name

## 6.52 ExchangeRate Class Reference

Inheritance diagram for ExchangeRate:



## Public Attributes

- [EffectiveDate](#)
- [ExchangeRate](#)
- [FromCurrency](#)
- [Revision](#)
- [ToCurrency](#)

### 6.52.1 Detailed Description

Deltanji status:

Object	ClearWater.ExchangeRate.CLS/MARINA.0
Component	CLS.ClearWater.ExchangeRate
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.52.2 Member Data Documentation

#### 6.52.2.1 EffectiveDate

`EffectiveDate`

#### 6.52.2.2 ExchangeRate

[ExchangeRate](#)

#### 6.52.2.3 FromCurrency

`FromCurrency`

### 6.52.2.4 Revision

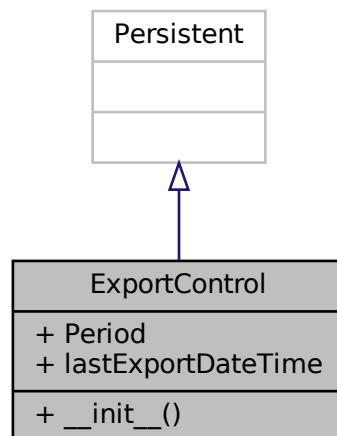
Revision

### 6.52.2.5 ToCurrency

ToCurrency

## 6.53 ExportControl Class Reference

Inheritance diagram for ExportControl:



### Public Attributes

- [Period](#)
- [lastExportDateTime](#)

### 6.53.1 Detailed Description

Deltanji status:



Object	Codis.ExportControl.CLS/MARINA.0
Component	CLS.Codis.ExportControl
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.53.2 Member Data Documentation

### 6.53.2.1 Period

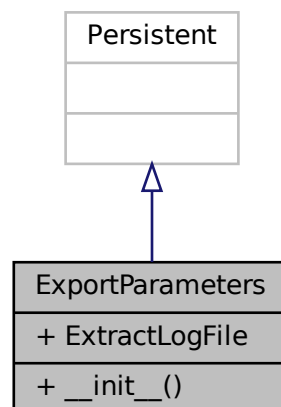
Period

### 6.53.2.2 lastExportDateTime

lastExportDateTime

## 6.54 ExportParameters Class Reference

Inheritance diagram for ExportParameters:



## Public Attributes

- [ExtractLogFile](#)

### 6.54.1 Detailed Description

Deltanji status:

Object	Codis.ExportParameters.CLS/MARINA.0
Component	CLS.Codis.ExportParameters
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.54.2 Member Data Documentation

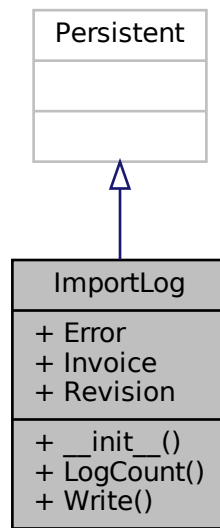
#### 6.54.2.1 ExtractLogFile

`ExtractLogFile`

## 6.55 ImportLog Class Reference

Errors generated by the Export of data to Exchequer for Import.

Inheritance diagram for ImportLog:



## Public Attributes

- [Error](#)
- [Invoice](#)
- [Revision](#)

### 6.55.1 Detailed Description

Errors generated by the Export of data to Exchequer for Import.

Deltanji status:

Object	ClearWater.ImportLog.CLS/MARINA.0
Component	CLS.ClearWater.ImportLog
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.55.2 Member Data Documentation

### 6.55.2.1 Error

Error

### 6.55.2.2 Invoice

Invoice

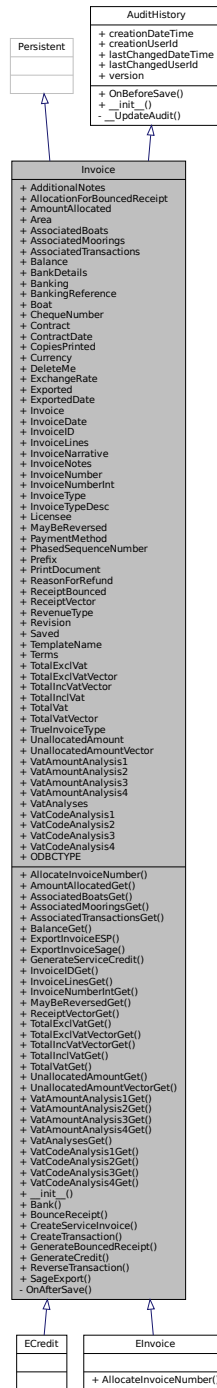
### 6.55.2.3 Revision

Revision

## 6.56 Invoice Class Reference

This class is really a transaction class.

Inheritance diagram for Invoice:



### Public Member Functions

- `_.Library.String AllocateInvoiceNumber ()`

*If the Transaction is a Receipt the method checks whether the Receipt numbers are from a.*

## Static Public Member Functions

- `_.Library.Integer` [CreateServiceInvoice](#) (`_.Library.String` contractid)  
*Create an invoice for the billable amounts in contract charges fro this contract.*
- `_.Library.Integer` [SageExport](#) (`_.Library.String` WorkFileKey)  
*Export CSV file of [Audit Trail Transactions](#) for import into Sage line 50 Accounting software.*

## Public Attributes

- [AdditionalNotes](#)
- [AllocationForBouncedReceipt](#)
- [AmountAllocated](#)
- [Area](#)
- [AssociatedBoats](#)  
*Comma separated list of [Boat](#) Names (Derived mainly for Receipts, Credit Notes using Allocations)*
- [AssociatedMooringings](#)  
*Comma separated list of Mooringings (Derived mainly for Receipts, Credit Notes using Allocations)*
- [AssociatedTransactions](#)  
*Comma separated list of Transactions (Derived mainly for Receipts, Credit Notes using Allocations)*
- [Balance](#)  
*\*\* Deprecated use [UnAllocatedAmount](#) instead \*\**
- [BankDetails](#)
- [Banking](#)
- [BankingReference](#)
- [Boat](#)
- [ChequeNumber](#)
- [Contract](#)
- [ContractDate](#)  
*If an invoice is generated from a contract this is the payment date (for phased\ncontracts) or the contracts start date (for advanced contracts) for which the \ninvoice was generated.*
- [CopiesPrinted](#)
- [Currency](#)
- [DeleteMe](#)
- [ExchangeRate](#)
- [Exported](#)

- [ExportedDate](#)
- [Invoice](#)
  - To allow receipts to be linked to invoices.*
- [InvoiceDate](#)
- [InvoiceID](#)
- [InvoiceLines](#)
- [InvoiceNarrative](#)
- [InvoiceNotes](#)
- [InvoiceNumber](#)
- [InvoiceNumberInt](#)
  - Internal invoice number.*
- [InvoiceType](#)
  - Possible values:*
- [InvoiceTypeDesc](#)
- [Licensee](#)
- [MaybeReversed](#)
  - Can this transaction be reversed.*
- [PaymentMethod](#)
  - \*\*\*\*\*For Invoices\*\*\*\*\**
- [PhasedSequenceNumber](#)
- [Prefix](#)
- [PrintDocument](#)
- [ReasonForRefund](#)
- [ReceiptBounced](#)
  - The original receipt record that is being bounced.*
- [ReceiptVector](#)
- [RevenueType](#)
  - This field indicates the type of revenue associated to the transaction e.g.*
- [Revision](#)
- [Saved](#)
- [TemplateName](#)
  - If not Invoice.doc store the template name here.*
- [Terms](#)
  - Terms of Payment.*
- [TotalExclVat](#)

- [TotalExclVatVector](#)  
*Total Excluding [Vat](#) with + or -.*
- [TotalIncVatVector](#)  
*If its receipt or credit then returns -TotalInvVat.*
- [TotalInclVat](#)
- [TotalVat](#)
- [TotalVatVector](#)
- [TrueInvoiceType](#)  
*Usually the same as [Invoice](#) type.*
- [UnallocatedAmount](#)
- [UnallocatedAmountVector](#)
- [VatAmountAnalysis1](#)
- [VatAmountAnalysis2](#)
- [VatAmountAnalysis3](#)
- [VatAmountAnalysis4](#)
- [VatAnalyses](#)
- [VatCodeAnalysis1](#)
- [VatCodeAnalysis2](#)
- [VatCodeAnalysis3](#)
- [VatCodeAnalysis4](#)

### 6.56.1 Detailed Description

This class is really a transaction class.

It contains Invoices,Credit Notes,Receipts....

Deltanji status:

Object	ClearWater.Invoice.CLS/MARINA.0
Component	CLS.ClearWater.Invoice
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm



## 6.56.2 Member Function Documentation

### 6.56.2.1 AllocateInvoiceNumber()

```
_.Library.String AllocateInvoiceNumber ( )
```

If the Transaction is a Receipt the method checks whether the Receipt numbers are from a separate file, if so the ReceiptNumber.AllocateReceiptNumber method is called.

Reimplemented in [EInvoice](#).

## 6.56.3 Member Data Documentation

### 6.56.3.1 AdditionalNotes

```
AdditionalNotes
```

### 6.56.3.2 AllocationForBouncedReceipt

```
AllocationForBouncedReceipt
```

### 6.56.3.3 AmountAllocated

```
AmountAllocated
```

### 6.56.3.4 Area

```
Area
```

### 6.56.3.5 AssociatedBoats

AssociatedBoats

Comma separated list of [Boat](#) Names (Derived mainly for Receipts, Credit Notes using Allocations)

### 6.56.3.6 AssociatedMoorings

AssociatedMoorings

Comma separated list of Moorings (Derived mainly for Receipts, Credit Notes using Allocations)

### 6.56.3.7 AssociatedTransactions

AssociatedTransactions

Comma separated list of Transactions (Derived mainly for Receipts, Credit Notes using Allocations)

### 6.56.3.8 Balance

Balance

\*\* Deprecated use UnAllocatedAmount instead \*\*

Balance of settlement for this invoice

Takes into account Rceipts matched against this invoice

### 6.56.3.9 BankDetails

[BankDetails](#)

### 6.56.3.10 Banking

Banking

### 6.56.3.11 BankingReference

BankingReference

### 6.56.3.12 Boat

Boat

### 6.56.3.13 ChequeNumber

ChequeNumber

### 6.56.3.14 Contract

Contract

### 6.56.3.15 ContractDate

ContractDate

If an invoice is generated from a contract this is the payment date (for phased\ncontracts) or the contracts start date (for advanced contracts) for which the \ninvoice was generated.

\nIt is used to prevent two invoices from eing generated for the same contract.

### 6.56.3.16 CopiesPrinted

CopiesPrinted

### 6.56.3.17 Currency

[Currency](#)

### 6.56.3.18 DeleteMe

DeleteMe

### 6.56.3.19 ExchangeRate

[ExchangeRate](#)

### 6.56.3.20 Exported

Exported

### 6.56.3.21 ExportedDate

ExportedDate

### 6.56.3.22 Invoice

[Invoice](#)

To allow receipts to be linked to invoices.

**6.56.3.23 InvoiceDate**

InvoiceDate

**6.56.3.24 InvoiceID**

InvoiceID

**6.56.3.25 InvoiceLines**

InvoiceLines

**6.56.3.26 InvoiceNarrative**

InvoiceNarrative

**6.56.3.27 InvoiceNotes**

InvoiceNotes

**6.56.3.28 InvoiceNumber**

InvoiceNumber

### 6.56.3.29 InvoiceNumberInt

InvoiceNumberInt

Internal invoice number.

### 6.56.3.30 InvoiceType

InvoiceType

Possible values:

[Invoice](#) [Credit](#) [PrePayment](#) [Pro-Forma](#) [Invoice](#) [Receipt](#) [Revenue](#)

### 6.56.3.31 InvoiceTypeDesc

InvoiceTypeDesc

### 6.56.3.32 Licensee

[Licensee](#)

### 6.56.3.33 MaybeReversed

MaybeReversed

Can this transaction be reversed.

No if any of the following is true:

Printed=1 AllocatedAmount not=0

### 6.56.3.34 PaymentMethod

[PaymentMethod](#)

\*\*\*\*\*For Invoices\*\*\*\*\*

' ie Direct debit for mooring fees. so although a contract may be direct debit ' ad hoc invoices won't be direct debit so we need to know which invoices are which

\*\*\*\*\*For Receipts\*\*\*\*\* How was the Receipt paid for

Cheque,Credit Card,Cashh...

**6.56.3.35 PhasedSequenceNumber**

PhasedSequenceNumber

**6.56.3.36 Prefix**

Prefix

**6.56.3.37 PrintDocument**

PrintDocument

**6.56.3.38 ReasonForRefund**

ReasonForRefund

**6.56.3.39 ReceiptBounced**

ReceiptBounced

The original receipt record that is being bounced.

**6.56.3.40 ReceiptVector**

ReceiptVector

### 6.56.3.41 RevenueType

RevenueType

This field indicates the type of revenue associated to the transaction e.g.

'M' for [Mooring Fees](#), 'S' for Services or 'O' for Other.

Functions that create invoices should use this code structure when creating a transaction. The 'Single [Invoice](#)', 'Advanced [Invoice](#)' and 'Phased Payments' should set this value on the [Invoice](#) to 'M'. [Service](#) payment Invoices should set-it to 'S'.

As of 14/03/2003 this has not yet been fully implemented. Using this indicator the 'Advanced [Invoice](#)' and 'Phased Payments' functions can determine if an [Invoice](#) has already been created for the contract as at present they look at the text in the [Invoice](#) Narrative. The change is also needed in order to build in the functionality to create a Pro-Forma for Outstanding mooring fees i.e. Total - (Sum of Receipts) as part payments are often made.

### 6.56.3.42 Revision

Revision

### 6.56.3.43 Saved

Saved

### 6.56.3.44 TemplateName

TemplateName

If not Invoice.doc store the template name here.

### 6.56.3.45 Terms

Terms

Terms of Payment.

ie no of days within which invoice must be paid



### 6.56.3.46 TotalExclVat

TotalExclVat

### 6.56.3.47 TotalExclVatVector

TotalExclVatVector

Total Excluding [Vat](#) with + or -.

### 6.56.3.48 TotalIncVatVector

TotalIncVatVector

If its receipt or credit then returns -TotalInvVat.

if invoice +TotalInclVat

### 6.56.3.49 TotalInclVat

TotalInclVat

### 6.56.3.50 TotalVat

TotalVat

### 6.56.3.51 TotalVatVector

TotalVatVector

### 6.56.3.52 TrueInvoiceType

TrueInvoiceType

Usually the same as [Invoice](#) type.

but if an invoice is created and not saved by the user then it may be created as a Pro-Forma [Invoice](#) and then when saved the [Invoice](#) type is changed to the TrueInvoiceType ie [Invoice](#)

### 6.56.3.53 UnallocatedAmount

UnallocatedAmount

### 6.56.3.54 UnallocatedAmountVector

UnallocatedAmountVector

### 6.56.3.55 VatAmountAnalysis1

VatAmountAnalysis1

### 6.56.3.56 VatAmountAnalysis2

VatAmountAnalysis2

### 6.56.3.57 VatAmountAnalysis3

VatAmountAnalysis3

**6.56.3.58 VatAmountAnalysis4**

VatAmountAnalysis4

**6.56.3.59 VatAnalyses**

VatAnalyses

**6.56.3.60 VatCodeAnalysis1**

VatCodeAnalysis1

**6.56.3.61 VatCodeAnalysis2**

VatCodeAnalysis2

**6.56.3.62 VatCodeAnalysis3**

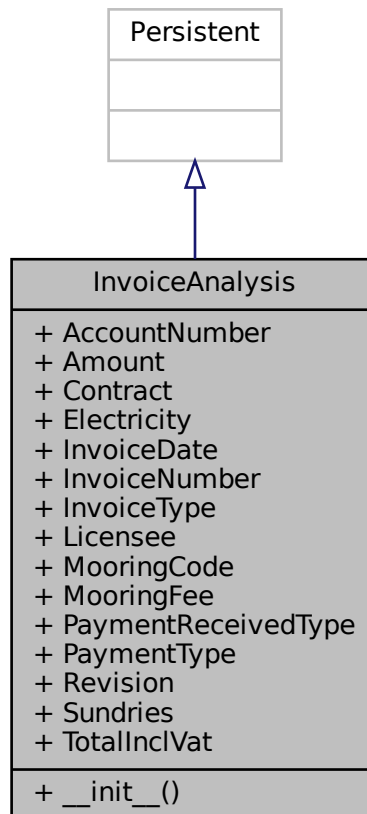
VatCodeAnalysis3

**6.56.3.63 VatCodeAnalysis4**

VatCodeAnalysis4

## 6.57 InvoiceAnalysis Class Reference

Inheritance diagram for InvoiceAnalysis:



### Public Attributes

- [AccountNumber](#)
- [Amount](#)
- [Contract](#)
- [Electricity](#)
- [InvoiceDate](#)
- [InvoiceNumber](#)
- [InvoiceType](#)

- [Licensee](#)
- [MooringCode](#)
- [MooringFee](#)
- [PaymentReceivedType](#)
- [PaymentType](#)
- [Revision](#)
- [Sundries](#)
- [TotalInclVat](#)

### 6.57.1 Detailed Description

Deltanji status:

Object	ClearWater.InvoiceAnalysis.CLS/MARINA.0
Component	CLS.ClearWater.InvoiceAnalysis
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.57.2 Member Data Documentation

#### 6.57.2.1 AccountNumber

AccountNumber

#### 6.57.2.2 Amount

Amount

### 6.57.2.3 Contract

[Contract](#)

### 6.57.2.4 Electricity

Electricity

### 6.57.2.5 InvoiceDate

InvoiceDate

### 6.57.2.6 InvoiceNumber

InvoiceNumber

### 6.57.2.7 InvoiceType

InvoiceType

### 6.57.2.8 Licensee

[Licensee](#)

### 6.57.2.9 MooringCode

MooringCode

### 6.57.2.10 MooringFee

MooringFee

### 6.57.2.11 PaymentReceivedType

PaymentReceivedType

### 6.57.2.12 PaymentType

PaymentType

### 6.57.2.13 Revision

Revision

### 6.57.2.14 Sundries

Sundries

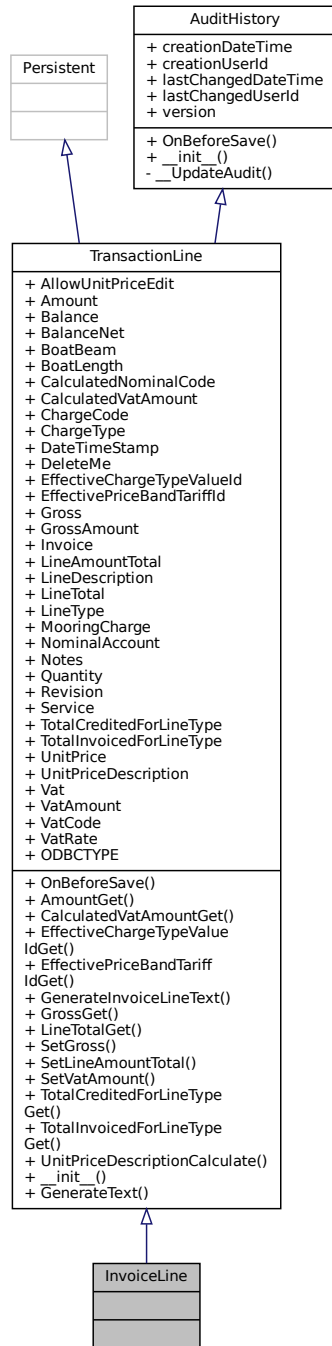
### 6.57.2.15 TotalInclVat

TotalInclVat



## 6.58 InvoiceLine Class Reference

Inheritance diagram for InvoiceLine:



### Additional Inherited Members

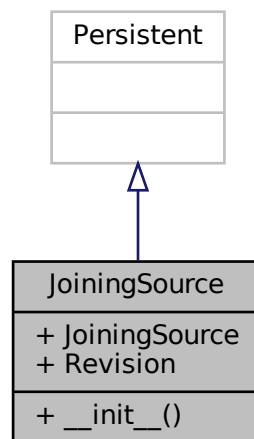
#### 6.58.1 Detailed Description

Deltanji status:

Object	ClearWater.InvoiceLine.CLS/MARINA.0
Component	CLS.ClearWater.InvoiceLine
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.59 JoiningSource Class Reference

Inheritance diagram for JoiningSource:



### Public Attributes

- [JoiningSource](#)
- [Revision](#)

### 6.59.1 Detailed Description

Deltanji status:

Object	ClearWater.JoiningSource.CLS/MARINA.0
Component	CLS.ClearWater.JoiningSource
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.59.2 Member Data Documentation

### 6.59.2.1 JoiningSource

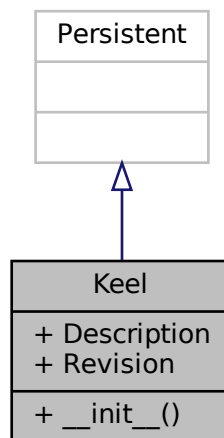
[JoiningSource](#)

### 6.59.2.2 Revision

[Revision](#)

## 6.60 Keel Class Reference

Inheritance diagram for Keel:



### Public Attributes

- [Description](#)
- [Revision](#)

### 6.60.1 Detailed Description

Deltanji status:

Object	ClearWater.Keel.CLS/MARINA.0
Component	CLS.ClearWater.Keel
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.60.2 Member Data Documentation

### 6.60.2.1 Description

Description

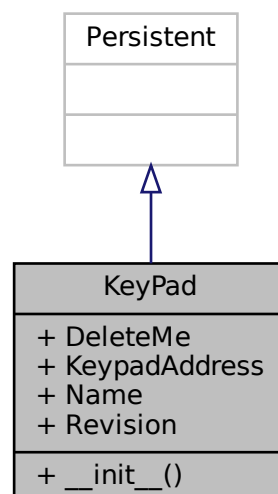
### 6.60.2.2 Revision

Revision

## 6.61 Keypad Class Reference

The [Keypad](#) on which a licensee will type in their pin number.

Inheritance diagram for Keypad:



## Public Attributes

- [DeleteMe](#)
- [KeypadAddress](#)
- [Name](#)
- [Revision](#)

### 6.61.1 Detailed Description

The [KeyPad](#) on which a licensee will type in their pin number.

Deltanji status:

Object	ClearWater.KeyPad.CLS/MARINA.0
Component	CLS.ClearWater.KeyPad
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.61.2 Member Data Documentation

#### 6.61.2.1 DeleteMe

DeleteMe

#### 6.61.2.2 KeypadAddress

KeypadAddress

#### 6.61.2.3 Name

Name

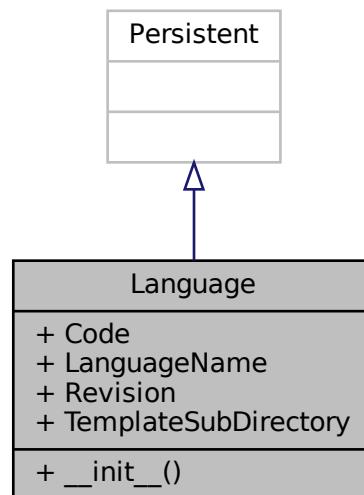
### 6.61.2.4 Revision

Revision

## 6.62 Language Class Reference

Languages used for display text.

Inheritance diagram for Language:



### Public Attributes

- [Code](#)
- [LanguageName](#)
- [Revision](#)
- [TemplateSubDirectory](#)

### 6.62.1 Detailed Description

Languages used for display text.

Deltanji status:

Object	ClearWater.Language.CLS/MARINA.0
Component	CLS.ClearWater.Language
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.62.2 Member Data Documentation

### 6.62.2.1 Code

Code

### 6.62.2.2 LanguageName

LanguageName

### 6.62.2.3 Revision

Revision

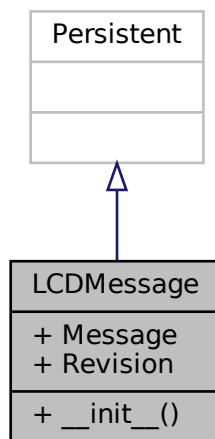
### 6.62.2.4 TemplateSubDirectory

TemplateSubDirectory

## 6.63 LCDMessage Class Reference

common messages sent to the LCD display

Inheritance diagram for LCDMessage:



### Public Attributes

- [Message](#)
- [Revision](#)

#### 6.63.1 Detailed Description

common messages sent to the LCD display

Deltanji status:

Object	ClearWater.LCDMessage.CLS/MARINA.0
Component	CLS.ClearWater.LCDMessage
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

#### 6.63.2 Member Data Documentation



### 6.63.2.1 Message

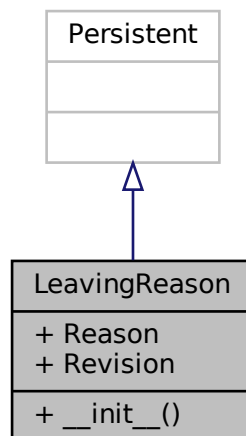
Message

### 6.63.2.2 Revision

Revision

## 6.64 LeavingReason Class Reference

Inheritance diagram for LeavingReason:



### Public Attributes

- [Reason](#)
- [Revision](#)

### 6.64.1 Detailed Description

Deltanji status:

Object	ClearWater.LeavingReason.CLS/MARINA.0
Component	CLS.ClearWater.LeavingReason
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.64.2 Member Data Documentation

### 6.64.2.1 Reason

Reason

### 6.64.2.2 Revision

Revision

## 6.65 Length Class Reference

### Static Public Member Functions

- [ClearWater.Length DisplayToLogical](#) (`_, _.Library.String val`)  
*Converts the input value val, which represents a date, into \$H format.*
- `_.Library.Boolean` [IsValidDT](#) (`_, _.Library.String val`)  
*Tests if the logical value val, which represents a date in \$H format,.*
- `_.Library.String` [LogicalToDisplay](#) (`_, _.Library.String val`)  
*Converts the value of val, which is in logical \$H format, into a display string.*
- `_.Library.Date` [Normalize](#) (`_, _.Library.String val`)  
*Converts val to a normalized value.*

## Static Public Attributes

- **COLLATION** = None  
*The default collation value used for this data type.*
- **DISPLAYLIST** = None  
*Used in conjunction with the **VALUELIST** parameter for enumerated.*
- **FORMAT** = None  
*The format specification for the data type's display value.*
- **MAXVAL** = None  
*The maximum allowed logical value for the data type.*
- **MINVAL** = None  
*The minimum allowed logical value for the data type.*
- **VALUELIST** = None  
*Used for enumerated (multiple-choice) attributes.*

### 6.65.1 Detailed Description

Deltanji status:

Object	ClearWater.Length.CLS/MARINA.0
Component	CLS.ClearWater.Length
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.65.2 Member Function Documentation

#### 6.65.2.1 DisplayToLogical()

```
ClearWater.Length DisplayToLogical (
    _/
    _ .Library.String val ) [static]
```

Converts the input value *val*, which represents a date, into \$H format.

Returns the logical (\$H) value of the input string *val*.

#### 6.65.2.2 IsValidDT()

```
_ .Library.Boolean IsValidDT (
    _/
    _ .Library.String val ) [static]
```

Tests if the logical value *val*, which represents a date in \$H format,.

is valid. The validation is based on the class parameter settings used for the class attribute this data type is associated with. In this case, **MAXVAL** and **MINVAL**.

Returns true (1) if the value *val* is valid, otherwise false (0).

### 6.65.2.3 LogicalToDisplay()

```
_.Library.String LogicalToDisplay (
    _/
    _.Library.String val ) [static]
```

Converts the value of *val*, which is in logical \$H format, into a display string.

The formatting is based on the value of the `FORMAT` parameter.

Returns the formatted value of *val*.

## 6.65.3 Member Data Documentation

### 6.65.3.1 DISPLAYLIST

```
DISPLAYLIST = None [static]
```

Used in conjunction with the `VALUELIST` parameter for enumerated.

(multiple-choice) attributes. *DISPLAYLIST*, if not null, represents the display values for the attribute corresponding with the logical values listed in *VALUELIST*.

The display values are returned by the `LogicalToDisplay` method.

### 6.65.3.2 FORMAT

```
FORMAT = None [static]
```

The format specification for the data type's display value.

The value of the *FORMAT* parameter corresponds to the available parameters of the `$ZDATE` and `$ZDATEH` functions, which are used to perform the formatting.

### 6.65.3.3 VALUELIST

```
VALUELIST = None [static]
```

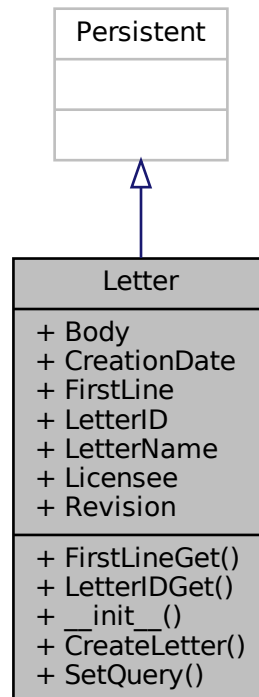
Used for enumerated (multiple-choice) attributes.

*VALUELIST* is either a null string ("") or a delimiter separated list (where the delimiter is the first character) of logical values. If a non-null value is present, then the attribute is restricted to values in the list, and the validation code simply checks to see if the value is in the list.

## 6.66 Letter Class Reference

Contains letters written in the letter writer interface.

Inheritance diagram for Letter:



### Static Public Member Functions

- [CreateLetter](#) (`__Library.String LetterName`, `ClearWater.Licensee Licensee`)  
*Contains letters written in the letter writer interface.*
- `__Library.Status` [SetQuery](#) (`__Library.String body`, `__Library.String query`, `__Library.String lettername`)  
*Generate a letter for all licensees in query.*

### Public Attributes

- [Body](#)
- [CreationDate](#)
- [FirstLine](#)
- [LetterID](#)

- [LetterName](#)  
*this is useful for letters which apply to multiple licensees*
- [Licensee](#)
- [Revision](#)

### 6.66.1 Detailed Description

Contains letters written in the letter writer interface.

Deltanji status:

Object	ClearWater.Letter.CLS/MARINA.0
Component	CLS.ClearWater.Letter
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.66.2 Member Function Documentation

#### 6.66.2.1 CreateLetter()

```
CreateLetter (
    _ .Library.String LetterName,
    ClearWater.Licensee Licensee ) [static]
```

Contains letters written in the letter writer interface.

Deltanji status:

Object	ClearWater.Letter.CLS/MARINA.0
Component	CLS.ClearWater.Letter
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.66.3 Member Data Documentation

#### 6.66.3.1 Body

Body

### 6.66.3.2 CreationDate

CreationDate

### 6.66.3.3 FirstLine

FirstLine

### 6.66.3.4 LetterID

LetterID

### 6.66.3.5 LetterName

LetterName

this is useful for letters which apply to multiple licensees

### 6.66.3.6 Licensee

[Licensee](#)

### 6.66.3.7 Revision

Revision

## 6.67 Licensee Class Reference

Inheritance diagram for Licensee:



### Public Member Functions

- `_.Library.Status OnBeforeSave` (`_.Library.Boolean insert`)  
*If this method is overridden then you must call `..UpdateAudit()` yourself.*
- `_.Library.String NextLicensee` (`_.Library.String direction`, `_.Library.String home`)  
*Get the next/previous licensee (depending on direction) in Surname order.*



## Public Attributes

- [AUDDISStatus](#)
- [AccountBalance](#)
- [AccountNumber](#)
- [AccountOwner](#)
- [AddressCountry](#)
- [AddressCounty](#)
- [AddressFormatted](#)
- [AddressLine1](#)
- [AddressLine2](#)
- [AddressLine3](#)
- [AddressPostCode](#)
- [AddressTown](#)
- [AllowSaleOnAccount](#)
- [Analysis1](#)
- [Analysis2](#)
- [BankDetails](#)
- [BankedBalance](#)  
*Account balance excluding unbanked receipts and refunds.*
- [CompanyName](#)
- [ContactAddress](#)
- [CreditLimit](#)
- [DataSource](#)
- [DateJoined](#)
- [DateLeft](#)
- [DoNotContact](#)
- [EmailAddress](#)

- [EmergencyTelephone](#)
- [EnableEmailDocuments](#)
- [EnableTextMessages](#)
- [FirstName1](#)
- [FirstName2](#)
- [FirstName3](#)
- [FirstName4](#)
- [HomeTelephone](#)
- [Initials1](#)
- [Initials2](#)
- [Initials3](#)
- [Initials4](#)
- [JoiningSource](#)
- [KudosAccount](#)
- [LastAmendedDate](#)
- [Licensee](#)
- [LicenseeDisplayName](#)
- [LicenseeDisplayName1](#)
- [LicenseeDisplayName2](#)
- [LicenseeDisplayName3](#)
- [LicenseeDisplayName4](#)
- [LicenseeFullName1](#)
- [LicenseeFullName2](#)
- [LicenseeFullName3](#)
- [LicenseeFullName4](#)

- [LicenseeNotes](#)
- [LicenseeReportName](#)
- [MobileTelephone](#)
- [Modified](#)
- [Nationality](#)
- [NextOfKinTelephone](#)  
*Next of Kin Contact telephone number.*
- [OfficeTelephone](#)
- [PrivateAndConfidential](#)
- [Profession](#)
- [ReasonLeft](#)
- [ReceiveMarketingInfoOther](#)
- [Revision](#)
- [RiskAlert](#)
- [SalutationName1](#)
- [Searched](#)  
*Has the user searched for the customer before entering it as a new one.*
- [SecondAddress](#)
- [SecondEmailAddress](#)
- [SecondHomeTelephone](#)
- [SecondMobileTelephone](#)
- [SecondOfficeTelephone](#)
- [ServiceBalance](#)
- [Status](#)
- [SuppressDiscounts](#)  
*0 - No*
- [Surname1](#)
- [Surname2](#)
- [Surname3](#)

- [Surname4](#)
- [TemporaryAccountNumber](#)  
*Some sites require account numbers derived from boatnames; initially use the.*
- [Title1](#)
- [Title2](#)
- [Title3](#)
- [Title4](#)
- [Type](#)
- [UnallocatedBalance](#)
- [VATNumber](#)
- [YourRef](#)  
*Reference number/code from data take on.*

### 6.67.1 Detailed Description

Deltanji status:

Object	ClearWater.Licensee.CLS/MARINA.0
Component	CLS.ClearWater.Licensee
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.67.2 Member Function Documentation

#### 6.67.2.1 NextLicensee()

```

_.Library.String NextLicensee (
    _.Library.String direction,
    _.Library.String home )

```

Get the next/previous licensee (depending on direction) in Surname order.

This is called from the next/previous licensee buttons on the main [ClearWater](#) screen

### 6.67.3 Member Data Documentation

**6.67.3.1 AUDDISStatus**

AUDDISStatus

**6.67.3.2 AccountBalance**

AccountBalance

**6.67.3.3 AccountNumber**

AccountNumber

**6.67.3.4 AccountOwner**

AccountOwner

**6.67.3.5 AddressCountry**

AddressCountry

**6.67.3.6 AddressCounty**

AddressCounty

### 6.67.3.7 AddressFormatted

AddressFormatted

### 6.67.3.8 AddressLine1

AddressLine1

### 6.67.3.9 AddressLine2

AddressLine2

### 6.67.3.10 AddressLine3

AddressLine3

### 6.67.3.11 AddressPostCode

AddressPostCode

### 6.67.3.12 AddressTown

AddressTown

**6.67.3.13 AllowSaleOnAccount**

AllowSaleOnAccount

**6.67.3.14 Analysis1**

Analysis1

**6.67.3.15 Analysis2**

Analysis2

**6.67.3.16 BankDetails**

BankDetails

**6.67.3.17 BankedBalance**

BankedBalance

Account balance excluding unbanked receipts and refunds.

**6.67.3.18 CompanyName**

CompanyName

**6.67.3.19 ContactAddress**

ContactAddress

**6.67.3.20 CreditLimit**

CreditLimit

**6.67.3.21 DataSource**

DataSource

**6.67.3.22 DateJoined**

DateJoined

**6.67.3.23 DateLeft**

DateLeft

**6.67.3.24 DoNotContact**

DoNotContact



**6.67.3.25 EmailAddress**

EmailAddress

**6.67.3.26 EmergencyTelephone**

EmergencyTelephone

**6.67.3.27 EnableEmailDocuments**

EnableEmailDocuments

**6.67.3.28 EnableTextMessages**

EnableTextMessages

**6.67.3.29 FirstName1**

FirstName1

**6.67.3.30 FirstName2**

FirstName2

**6.67.3.31 FirstName3**

FirstName3

**6.67.3.32 FirstName4**

FirstName4

**6.67.3.33 HomeTelephone**

HomeTelephone

**6.67.3.34 Initials1**

Initials1

**6.67.3.35 Initials2**

Initials2

**6.67.3.36 Initials3**

Initials3

**6.67.3.37 Initials4**

Initials4

**6.67.3.38 JoiningSource**

JoiningSource

**6.67.3.39 KudosAccount**

KudosAccount

**6.67.3.40 LastAmendedDate**

LastAmendedDate

**6.67.3.41 Licensee**

Licensee

**6.67.3.42 LicenseeDisplayName**

LicenseeDisplayName

**6.67.3.43 LicenseeDisplayName1**

LicenseeDisplayName1

**6.67.3.44 LicenseeDisplayName2**

LicenseeDisplayName2

**6.67.3.45 LicenseeDisplayName3**

LicenseeDisplayName3

**6.67.3.46 LicenseeDisplayName4**

LicenseeDisplayName4

**6.67.3.47 LicenseeFullName1**

LicenseeFullName1

**6.67.3.48 LicenseeFullName2**

LicenseeFullName2

**6.67.3.49 LicenseeFullName3**

LicenseeFullName3

**6.67.3.50 LicenseeFullName4**

LicenseeFullName4

**6.67.3.51 LicenseeNotes**

LicenseeNotes

**6.67.3.52 LicenseeReportName**

LicenseeReportName

**6.67.3.53 MobileTelephone**

MobileTelephone

**6.67.3.54 Modified**

Modified

**6.67.3.55 Nationality**

Nationality

**6.67.3.56 NextOfKinTelephone**

NextOfKinTelephone

Next of Kin Contact telephone number.

**6.67.3.57 OfficeTelephone**

OfficeTelephone

**6.67.3.58 PrivateAndConfidential**

PrivateAndConfidential

**6.67.3.59 Profession**

Profession

**6.67.3.60 ReasonLeft**

ReasonLeft

**6.67.3.61 ReceiveMarketingInfoOther**

ReceiveMarketingInfoOther

**6.67.3.62 Revision**

Revision

**6.67.3.63 RiskAlert**

RiskAlert

**6.67.3.64 SalutationName1**

SalutationName1

**6.67.3.65 Searched**

Searched

Has the user searched for the customer before entering it as a new one.

**6.67.3.66 SecondAddress**

SecondAddress

**6.67.3.67 SecondEmailAddress**

SecondEmailAddress

**6.67.3.68 SecondHomeTelephone**

SecondHomeTelephone

**6.67.3.69 SecondMobileTelephone**

SecondMobileTelephone

**6.67.3.70 SecondOfficeTelephone**

SecondOfficeTelephone

**6.67.3.71 ServiceBalance**

ServiceBalance

**6.67.3.72 Status**

Status



**6.67.3.73 SuppressDiscounts**

SuppressDiscounts

0 - No

1 - Yes

Should automatically applied discounts be suppressed for this customer

**6.67.3.74 Surname1**

Surname1

**6.67.3.75 Surname2**

Surname2

**6.67.3.76 Surname3**

Surname3

**6.67.3.77 Surname4**

Surname4

**6.67.3.78 TemporaryAccountNumber**

TemporaryAccountNumber

Some sites require account numbers derived from boatnames; initially use the.

surname and set this property to 1 to indicate that a new account number is required once the customer's first boat is entered on the system. NB: This is needed at Swale marina as they have been using Sage Account numbers derived this way for many years. We have come across other sites during demos that work this way too.

**6.67.3.79 Title1**

Title1

**6.67.3.80 Title2**

Title2

**6.67.3.81 Title3**

Title3

**6.67.3.82 Title4**

Title4

**6.67.3.83 Type**

Type

**6.67.3.84 UnallocatedBalance**

UnallocatedBalance

### 6.67.3.85 VATNumber

VATNumber

### 6.67.3.86 YourRef

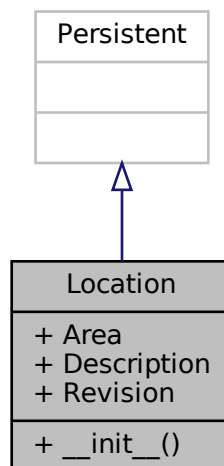
YourRef

Reference number/code from data take on.

## 6.68 Location Class Reference

Eg.

Inheritance diagram for Location:



### Public Attributes

- [Area](#)
- [Description](#)
- [Revision](#)

### 6.68.1 Detailed Description

Eg.

Pontoon, or Hardstanding etc Physical grouping of Moorings. Some marinas use [Area](#) for this, at others area represents the marina/site

Deltanji status:

Object	ClearWater.Location.CLS/MARINA.0
Component	CLS.ClearWater.Location
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.68.2 Member Data Documentation

#### 6.68.2.1 Area

[Area](#)

#### 6.68.2.2 Description

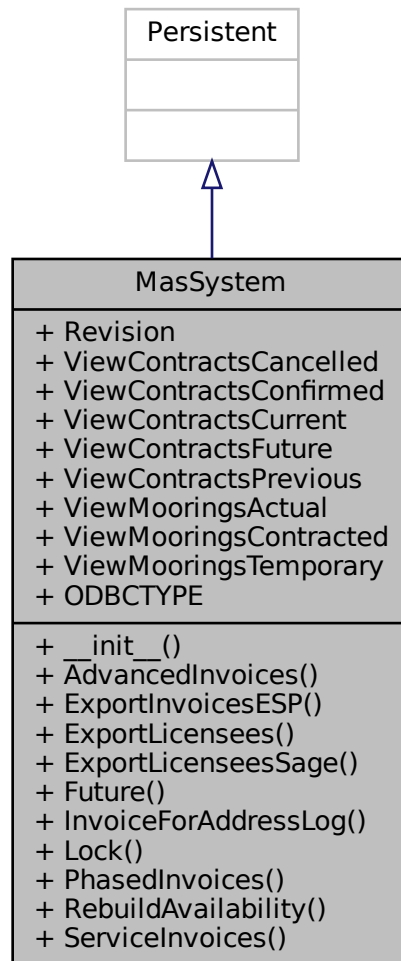
Description

#### 6.68.2.3 Revision

Revision

## 6.69 MasSystem Class Reference

Inheritance diagram for MasSystem:



### Static Public Member Functions

- `_.Library.Status InvoiceForAddressLog (_.Library.String addresslogid, _.Library.String invoiceid)`  
*5/2/2003 D & R request*
- `_.Library.Integer Lock (_.Library.String ClassName, _.Library.String ID, _.Library.String Type, _.Library.Integer timeout)`  
*Lock/Unlock objects using `^lock(classname,rowid)`*
- `_.Library.Integer ServiceInvoices (_.Library.Float threshold, _.Library.String termsOfPayment, _.Library.String username, _.Library.String areaid1, _.Library.Date invoiceDate, _.Library.String contractStatus)`  
*5/1/2003 - D & R request*

## Public Attributes

- [Revision](#)
- [ViewContractsCancelled](#)
- [ViewContractsConfirmed](#)
- [ViewContractsCurrent](#)
- [ViewContractsFuture](#)
- [ViewContractsPrevious](#)
- [ViewMooringsActual](#)
- [ViewMooringsContracted](#)
- [ViewMooringsTemporary](#)

### 6.69.1 Detailed Description

Deltanji status:

Object	ClearWater.MasSystem.CLS/MARINA.0
Component	CLS.ClearWater.MasSystem
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.69.2 Member Function Documentation

#### 6.69.2.1 InvoiceForAddressLog()

```

__Library.Status InvoiceForAddressLog (
    __Library.String addresslogid,
    __Library.String invoiceid ) [static]

```

5/2/2003 D & R request

Called from MasSystem.ServiceInvoices

Create an invoice for the outstanding balance on the addresslog record passed to this function.

Following the creation of an invoice a new AddressLog record is created with a zero balance and a LogType of virtual, this indicates it is not a real meter reading.

### 6.69.2.2 Lock()

```
_.Library.Integer Lock (
    _.Library.String ClassName,
    _.Library.String ID,
    _.Library.String Type,
    _.Library.Integer timeout ) [static]
```

Lock/Unlock objects using ^lock(classname,rowid)

Type is 0 (unlock), 1 Lock

### 6.69.2.3 ServiceInvoices()

```
_.Library.Integer ServiceInvoices (
    _.Library.Float threshold,
    _.Library.String termsOfPayment,
    _.Library.String username,
    _.Library.String areaid1,
    _.Library.Date invoiceDate,
    _.Library.String contractStatus ) [static]
```

5/1/2003 - D & R request

Create Invoices for services used based on the outstanding credit on [AddressLog](#) records. Only create invoices for those records where the net balance exceeds the threshold selected.

Only select records where the contract is still current This invoice run will set the outstanding balance to zero for those records where an invoice is created.

Return value is the total number of invoices created.

## 6.69.3 Member Data Documentation

### 6.69.3.1 Revision

Revision

### 6.69.3.2 ViewContractsCancelled

ViewContractsCancelled

### 6.69.3.3 ViewContractsConfirmed

ViewContractsConfirmed

### 6.69.3.4 ViewContractsCurrent

ViewContractsCurrent

### 6.69.3.5 ViewContractsFuture

ViewContractsFuture

### 6.69.3.6 ViewContractsPrevious

ViewContractsPrevious

### 6.69.3.7 ViewMooringsActual

ViewMooringsActual

### 6.69.3.8 ViewMooringsContracted

ViewMooringsContracted

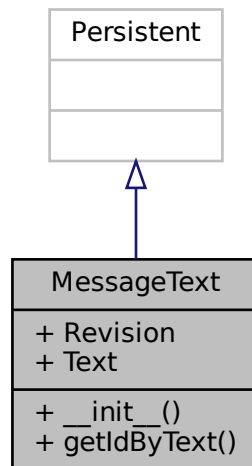


### 6.69.3.9 ViewMooringsTemporary

ViewMooringsTemporary

## 6.70 MessageText Class Reference

Inheritance diagram for MessageText:



### Public Attributes

- [Revision](#)
- [Text](#)

### 6.70.1 Detailed Description

Deltanji status:

Object	ClearWater.MessageText.CLS/MARINA.0
Component	CLS.ClearWater.MessageText
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.70.2 Member Data Documentation

### 6.70.2.1 Revision

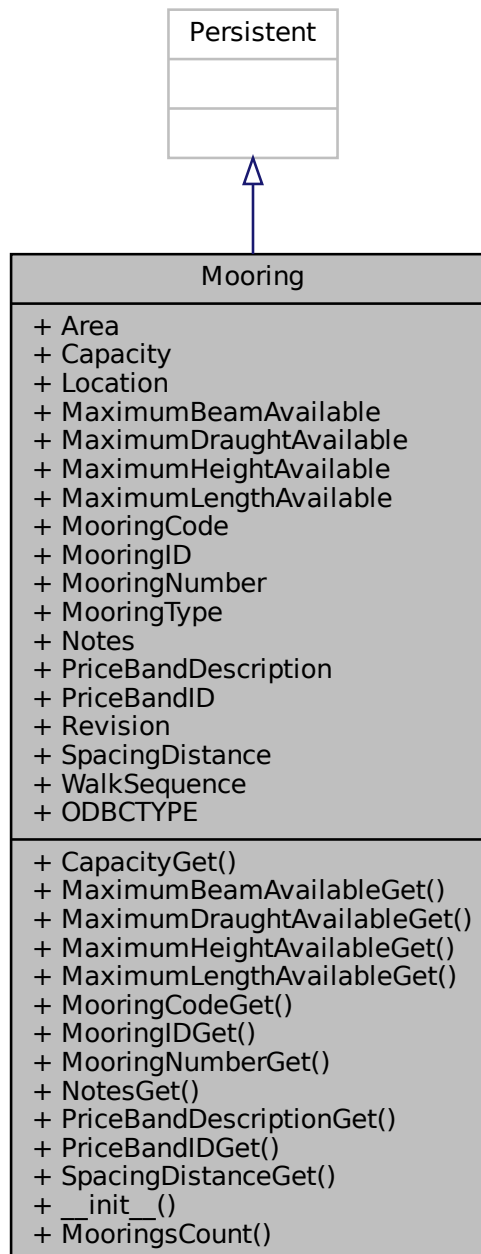
Revision

### 6.70.2.2 Text

Text

## 6.71 Mooring Class Reference

Inheritance diagram for Mooring:



### Static Public Member Functions

- `_.Library.Integer MooringsCount ()`

*Count the number of moorings configured for use.*

## Public Attributes

- [Area](#)
- [Capacity](#)  
*deprecated*
- [Location](#)
- [MaximumBeamAvailable](#)
- [MaximumDraughtAvailable](#)
- [MaximumHeightAvailable](#)
- [MaximumLengthAvailable](#)
- [MooringCode](#)
- [MooringID](#)
- [MooringNumber](#)
- [MooringType](#)
- [Notes](#)
- [PriceBandDescription](#)
- [PriceBandID](#)
- [Revision](#)
- [SpacingDistance](#)
- [WalkSequence](#)

### 6.71.1 Detailed Description

Deltanji status:

Object	ClearWater.Mooring.CLS/MARINA.0
Component	CLS.ClearWater.Mooring
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.71.2 Member Data Documentation

### 6.71.2.1 Area

[Area](#)

### 6.71.2.2 Capacity

Capacity

deprecated

### 6.71.2.3 Location

[Location](#)

### 6.71.2.4 MaximumBeamAvailable

MaximumBeamAvailable

### 6.71.2.5 MaximumDraughtAvailable

MaximumDraughtAvailable

### 6.71.2.6 MaximumHeightAvailable

MaximumHeightAvailable

### 6.71.2.7 MaximumLengthAvailable

MaximumLengthAvailable

### 6.71.2.8 MooringCode

MooringCode

### 6.71.2.9 MooringID

MooringID

### 6.71.2.10 MooringNumber

MooringNumber

### 6.71.2.11 MooringType

MooringType

### 6.71.2.12 Notes

Notes

### 6.71.2.13 PriceBandDescription

PriceBandDescription

### 6.71.2.14 PriceBandID

PriceBandID

### 6.71.2.15 Revision

Revision

### 6.71.2.16 SpacingDistance

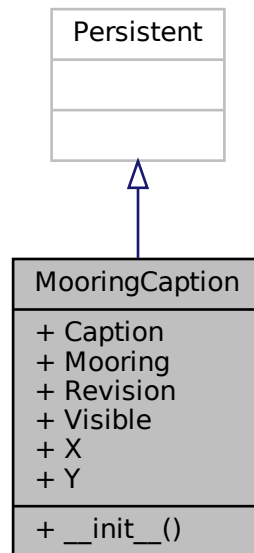
SpacingDistance

### 6.71.2.17 WalkSequence

WalkSequence

## 6.72 MooringCaption Class Reference

Inheritance diagram for MooringCaption:



### Public Attributes

- [Caption](#)
- [Mooring](#)
- [Revision](#)
- [Visible](#)
- [X](#)
- [Y](#)

### 6.72.1 Detailed Description

Deltanji status:

Object	ClearWater.MooringCaption.CLS/MARINA.0
Component	CLS.ClearWater.MooringCaption
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm



## 6.72.2 Member Data Documentation

### 6.72.2.1 Caption

Caption

### 6.72.2.2 Mooring

Mooring

### 6.72.2.3 Revision

Revision

### 6.72.2.4 Visible

Visible

### 6.72.2.5 X

X

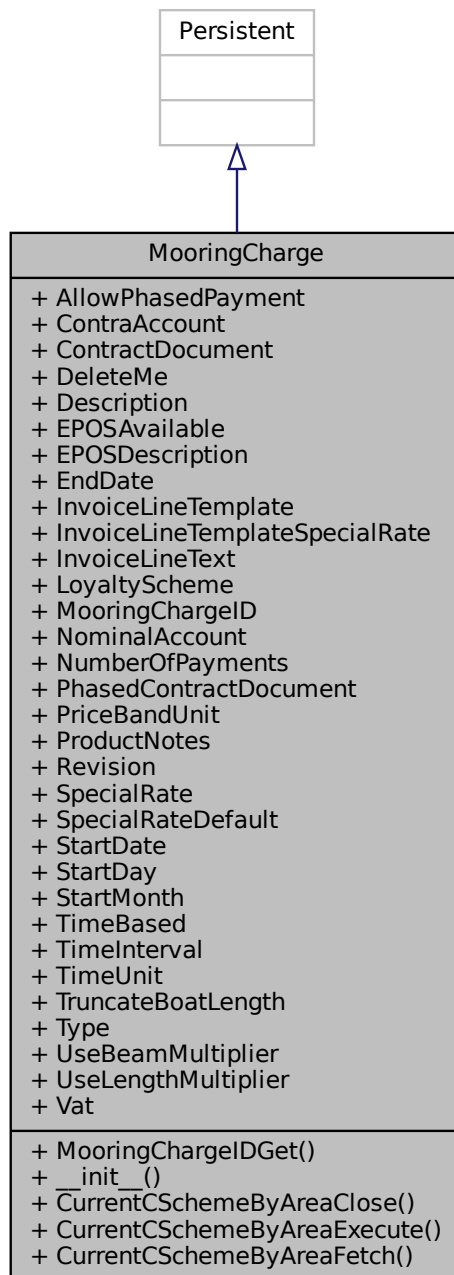
6.72.2.6 Y

Y

## 6.73 MooringCharge Class Reference

Charging type for mooring fees.

Inheritance diagram for MooringCharge:



## Public Attributes

- [AllowPhasedPayment](#)
- [ContraAccount](#)
- [ContractDocument](#)

*File name of the contract for this charge scheme.*

- [DeleteMe](#)
- [Description](#)
- [EPOSAvailable](#)
- [EPOSDescription](#)
- [EndDate](#)
- [InvoiceLineTemplate](#)
- [InvoiceLineTemplateSpecialRate](#)
- [InvoiceLineText](#)
- [LoyaltyScheme](#)
- [MooringChargeID](#)
- [NominalAccount](#)
- [NumberOfPayments](#)
- [PhasedContractDocument](#)
- [PriceBandUnit](#)
- [ProductNotes](#)
- [Revision](#)
- [SpecialRate](#)
- [SpecialRateDefault](#)
  - default to the calculated value if the special rate is null or 0*
- [StartDate](#)
- [StartDay](#)
- [StartMonth](#)
- [TimeBased](#)
  - multiply the tarriff by the length of time of the contract (in some fashion)*
- [TimeInterval](#)
- [TimeUnit](#)
  - Period.*
- [TruncateBoatLength](#)

- [Type](#)  
*set to 'Contract'*
- [UseBeamMultiplier](#)
- [UseLengthMultiplier](#)  
*Is the boat length use as a multiplication factor?*
- [Vat](#)

### 6.73.1 Detailed Description

Charging type for mooring fees.

Deltanji status:

Object	ClearWater.MooringCharge.CLS/MARINA.0
Component	CLS.ClearWater.MooringCharge
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.73.2 Member Data Documentation

#### 6.73.2.1 AllowPhasedPayment

AllowPhasedPayment

#### 6.73.2.2 ContraAccount

ContraAccount

#### 6.73.2.3 ContractDocument

ContractDocument

File name of the contract for this charge scheme.

#### 6.73.2.4 DeleteMe

DeleteMe

#### 6.73.2.5 Description

Description

#### 6.73.2.6 EPOSAvailable

EPOSAvailable

#### 6.73.2.7 EPOSDescription

EPOSDescription

#### 6.73.2.8 EndDate

EndDate

#### 6.73.2.9 InvoiceLineTemplate

InvoiceLineTemplate

**6.73.2.10 InvoiceLineTemplateSpecialRate**

InvoiceLineTemplateSpecialRate

**6.73.2.11 InvoiceLineText**

InvoiceLineText

**6.73.2.12 LoyaltyScheme**

LoyaltyScheme

**6.73.2.13 MooringChargeID**

MooringChargeID

**6.73.2.14 NominalAccount**

NominalAccount

**6.73.2.15 NumberOfPayments**

NumberOfPayments

### 6.73.2.16 PhasedContractDocument

PhasedContractDocument

### 6.73.2.17 PriceBandUnit

PriceBandUnit

### 6.73.2.18 ProductNotes

ProductNotes

### 6.73.2.19 Revision

Revision

### 6.73.2.20 SpecialRate

SpecialRate

### 6.73.2.21 SpecialRateDefault

SpecialRateDefault

default to the calculated value if the special rate is null or 0



**6.73.2.22 StartDate**

StartDate

**6.73.2.23 StartDay**

StartDay

**6.73.2.24 StartMonth**

StartMonth

**6.73.2.25 TimeBased**

TimeBased

multiply the tarriff by the length of time of the contract (in some fashion)

0 = do not 1 = do

**6.73.2.26 TimeInterval**

TimeInterval

**6.73.2.27 TimeUnit**

TimeUnit

Period.

Year 6 Months Month Week Day

### 6.73.2.28 TruncateBoatLength

TruncateBoatLength

### 6.73.2.29 Type

Type

set to ['Contract'](#)

### 6.73.2.30 UseBeamMultiplier

UseBeamMultiplier

### 6.73.2.31 UseLengthMultiplier

UseLengthMultiplier

Is the boat length use as a multiplication factor?

### 6.73.2.32 Vat

[Vat](#)

## 6.74 Options Class Reference

System settings.

Inheritance diagram for Options:



### Public Attributes

- [AutoCheckOut](#)

- Shoul boats automatically be checked out when the contract expires.*
- [AutoLeavers](#)

*Automatically show leavers report.*
- [AutoLeaversDate](#)

*Date of last run of the autoleavers report.*
- [AutoLeaversPeriod](#)

*How far ahead to look for leavers in days.*
- [AutoLeaversTime](#)

*Time of day to show AutoLeavers report.*
- [BoatRounding](#)

*round the dimensions of the boat to the nearest...*
- [BollardDataLength](#)

*how long is the data returned from the bollard*
- [BollardTimeout](#)

*how long in seconds to wait for data from bollard*
- [CheckOutTime](#)

*What time is it ok to switch off services if a contract expires.*
- [CommPort](#)

*Com port for service bollards (service switches)*
- [ConfirmContracts](#)

*When generating future contracts, should they automatically be.*
- [CreditCardSurcharge](#)
- [CreditSwitchOff](#)

*Switch off bollards where the credit is less than the minimum limit.*
- [DecimalPlaces](#)

*Number of decimals to display/use in calculations for [Boat CalculatedLength](#).*
- [DefaultService](#)

*Used at D & R so they don't have to select the service for each.*
- [DocumentPath](#)

*location of word template documents*
- [ExportDepartment](#)

*Used by Sage Export.*
- [FutureMooring](#)

*When future contracts are generated based on current contracts.*
- [KeyPadCommPort](#)
- [LCDMessage](#)

*Message to be sent to the LCD display on the 3rd screen.*
- [LocalExchequerDir](#)
- [Login](#)

*is password security enabled for login*
- [LoyaltyBonus](#)
- [MethodOfPaymentPrint](#)
- [Microchip](#)

*0 old chip (dont send trailing 255)*
- [MinimumBoatLength](#)

*Minimum boat length for pricing.*

- [MinimumCredit](#)  
*if the credit falls below this value for a licensee then the services will*
- [ODBCDSN](#)
- [PaymentScheme](#)  
*"" default*
- [PollingFrequency](#)  
*Minutes between starting a poll of all bollards.*
- [PrincipalCharge](#)
- [PrintCopies](#)
- [PrintCopiesInvoice](#)
- [PrintCopiesMOP](#)
- [RemoteExchequerDir](#)
- [RenewalBonus](#)
- [Revision](#)
- [ServicePrePayment](#)  
*determines whether the polling checkservice credit funtion*
- [SpecialRateAccessControl](#)  
*is access control set on the SpecialRate field on the contract*
- [UseFeet](#)  
*Measurements in feet =1.*
- [ZeroBalanceCheck](#)  
*When cancelling a contract should the balance be checked to.*

### 6.74.1 Detailed Description

System settings.

Deltanji status:

Object	ClearWater.Options.CLS/MARINA.0
Component	CLS.ClearWater.Options
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.74.2 Member Data Documentation

### 6.74.2.1 AutoCheckOut

AutoCheckOut

Should boats automatically be checked out when the contract expires.

### 6.74.2.2 AutoLeavers

AutoLeavers

Automatically show leavers report.

### 6.74.2.3 AutoLeaversDate

AutoLeaversDate

Date of last run of the autoleavers report.

This is to stop it showing every time you start clearwater

### 6.74.2.4 AutoLeaversPeriod

AutoLeaversPeriod

How far ahead to look for leavers in days.

### 6.74.2.5 AutoLeaversTime

AutoLeaversTime

Time of day to show AutoLeavers report.

### 6.74.2.6 BoatRounding

BoatRounding

round the dimensions of the boat to the nearest...

if the value is 0 just use the dimensions of the boat

### 6.74.2.7 BollardDataLength

`BollardDataLength`

how long is the data returned from the bollard

in bytes

### 6.74.2.8 BollardTimeout

`BollardTimeout`

how long in seconds to wait for data from bollard

### 6.74.2.9 CheckOutTime

`CheckOutTime`

What time is it ok to switch off services if a contract expires.

ie contract expires at midnight. Switch off services at 11am next day

### 6.74.2.10 CommPort

`CommPort`

Com port for service bollards (service switches)

### 6.74.2.11 ConfirmContracts

`ConfirmContracts`

When generating future contracts, should they automatically be.

confirmed.

### 6.74.2.12 CreditCardSurcharge

`CreditCardSurcharge`

### 6.74.2.13 CreditSwitchOff

CreditSwitchOff

Switch off bollards where the credit is less than the minimum limit.

### 6.74.2.14 DecimalPlaces

DecimalPlaces

Number of decimals to display/use in calculations for [Boat](#) CalculatedLength.

### 6.74.2.15 DefaultService

DefaultService

Used at D & R so they don't have to select the service for each.

entry when entering meter readings

### 6.74.2.16 DocumentPath

DocumentPath

location of word template documents

"" means the templates are in the same directory as the exe

### 6.74.2.17 ExportDepartment

ExportDepartment

Used by Sage Export.

### 6.74.2.18 FutureMooring

FutureMooring

When future contracts are generated based on current contracts.

which mooring do we use

0 current 1 contracted



### 6.74.2.19 KeyPadCommPort

KeyPadCommPort

### 6.74.2.20 LCDMessage

[LCDMessage](#)

Message to be sent to the LCD display on the 3rd screen.

### 6.74.2.21 LocalExchequerDir

LocalExchequerDir

### 6.74.2.22 Login

Login

is password security enabled for login

### 6.74.2.23 LoyaltyBonus

LoyaltyBonus

### 6.74.2.24 MethodOfPaymentPrint

MethodOfPaymentPrint

### 6.74.2.25 Microchip

Microchip

0 old chip (dont send trailing 255)

1 new chip (send trailing 255)

### 6.74.2.26 MinimumBoatLength

MinimumBoatLength

Minimum boat length for pricing.

### 6.74.2.27 MinimumCredit

MinimumCredit

if the credit falls below this value for a licensee then the services will  
be switched off

### 6.74.2.28 ODBCDSN

ODBCDSN

### 6.74.2.29 PaymentScheme

PaymentScheme

"" default

1 pro rata 2 Shepperton Marina 3 Dun laoghaire Annual ( 12 months or 8/12 of year but with pro rata for incomplete 1st month) 4 - Unused 5 Dean & ReadyHoff Winter/Summer/Annual etc 6 [MDL](#) 7 Yalikavac charge by area 8 Porto Carrass round 8.99 down to 8 9 Harleyford Marina half months as shepperton used to

### 6.74.2.30 PollingFrequency

PollingFrequency

Minutes between starting a poll of all bollards.

**6.74.2.31 PrincipalCharge**

PrincipalCharge

**6.74.2.32 PrintCopies**

PrintCopies

**6.74.2.33 PrintCopiesInvoice**

PrintCopiesInvoice

**6.74.2.34 PrintCopiesMOP**

PrintCopiesMOP

**6.74.2.35 RemoteExchequerDir**

RemoteExchequerDir

**6.74.2.36 RenewalBonus**

RenewalBonus

### 6.74.2.37 Revision

Revision

### 6.74.2.38 ServicePrePayment

ServicePrePayment

determines whether the polling checkservice credit funtion  
can switch off services

### 6.74.2.39 SpecialRateAccessControl

SpecialRateAccessControl

is access control set on the SpecialRate field on the contract

0 no 1 yes

if access control is set then olnly users logged in as Administrator can use/amend the Special Rate field.

### 6.74.2.40 UseFeet

UseFeet

Measurements in feet =1.

0 -> use meters

### 6.74.2.41 ZeroBalanceCheck

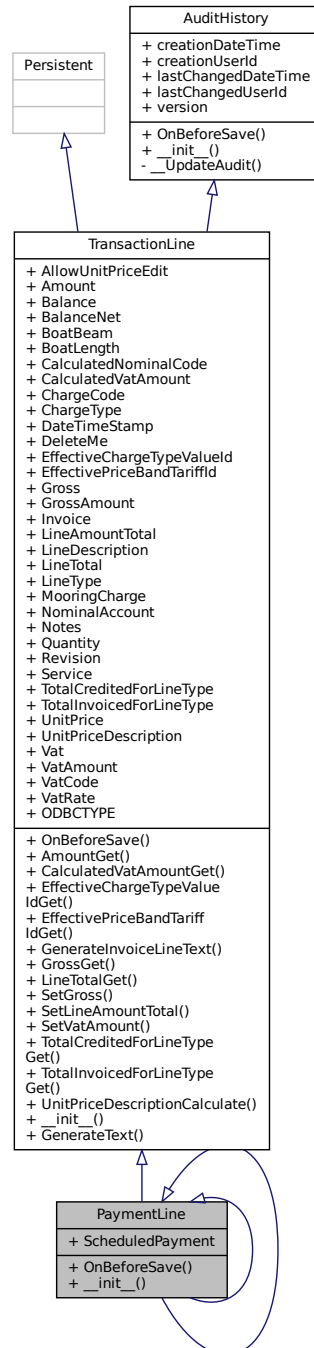
ZeroBalanceCheck

When cancelling a contract should the balance be checked to.

make sure that it is zero, this also applies to unconfirming.

## 6.75 PaymentLine Class Reference

Inheritance diagram for PaymentLine:



### Public Member Functions

- `_.Library.Status OnBeforeSave` (`_.Library.Boolean insert`)

*If this method is overridden then you must call `..UpdateAudit()` yourself.*

## Public Attributes

- [ScheduledPayment](#)

## Additional Inherited Members

### 6.75.1 Detailed Description

Deltanji status:

Object	ClearWater.PaymentLine.CLS/MARINA.0
Component	CLS.ClearWater.PaymentLine
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

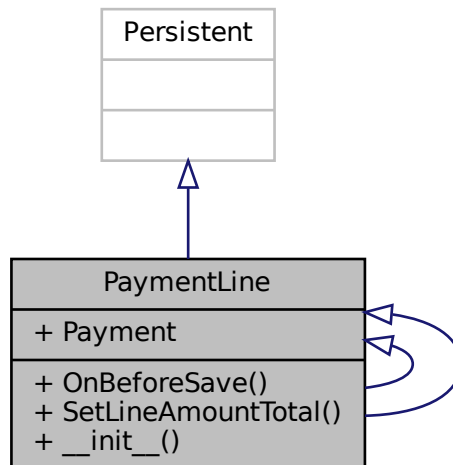
### 6.75.2 Member Data Documentation

#### 6.75.2.1 ScheduledPayment

[ScheduledPayment](#)

## 6.76 PaymentLine Class Reference

Inheritance diagram for PaymentLine:



### Public Member Functions

- `_.Library.Status OnBeforeSave (_.Library.Boolean insert)`  
*If this method is overridden then you must call `..UpdateAudit()` yourself.*

### Public Attributes

- `Payment`

### Additional Inherited Members

#### 6.76.1 Detailed Description

Deltanji status:

Object	WorkFile.PaymentLine.CLS/MARINA.0
Component	CLS.WorkFile.PaymentLine
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.76.2 Member Data Documentation

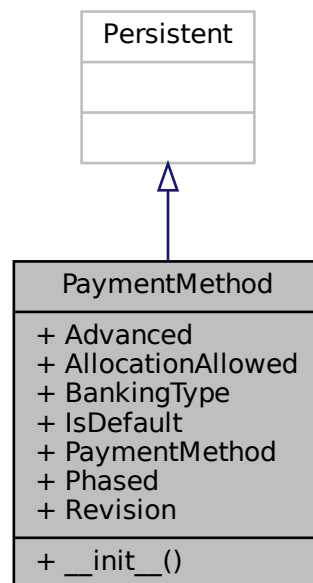
### 6.76.2.1 Payment

Payment

## 6.77 PaymentMethod Class Reference

for receipts eg Cash,Cheque etc

Inheritance diagram for PaymentMethod:





## Public Attributes

- [Advanced](#)
- [AllocationAllowed](#)  
*0 - not allowed*
- [BankingType](#)
- [IsDefault](#)
- [PaymentMethod](#)
- [Phased](#)
- [Revision](#)

### 6.77.1 Detailed Description

for receipts eg Cash,Cheque etc

Deltanji status:

Object	ClearWater.PaymentMethod.CLS/MARINA.0
Component	CLS.ClearWater.PaymentMethod
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.77.2 Member Data Documentation

#### 6.77.2.1 Advanced

Advanced

#### 6.77.2.2 AllocationAllowed

AllocationAllowed

0 - not allowed

1 - allowed

### 6.77.2.3 BankingType

[BankingType](#)

### 6.77.2.4 IsDefault

[IsDefault](#)

### 6.77.2.5 PaymentMethod

[PaymentMethod](#)

### 6.77.2.6 Phased

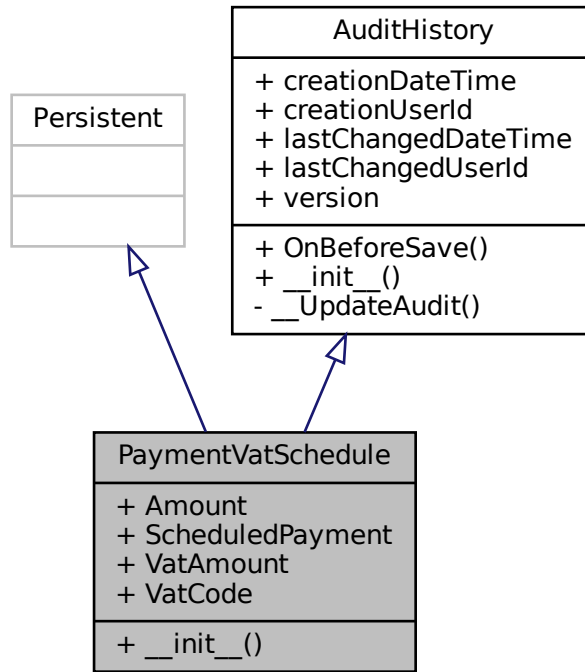
[Phased](#)

### 6.77.2.7 Revision

[Revision](#)

## 6.78 PaymentVatSchedule Class Reference

Inheritance diagram for PaymentVatSchedule:



### Public Attributes

- [Amount](#)  
*The net amount - for the applicable vat rate.*
- [ScheduledPayment](#)
- [VatAmount](#)
- [VatCode](#)

### Additional Inherited Members

#### 6.78.1 Detailed Description

Deltanji status:

Object	ClearWater.PaymentVatSchedule.CLS/MARINA.0
Component	CLS.ClearWater.PaymentVatSchedule
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.78.2 Member Data Documentation

### 6.78.2.1 Amount

Amount

The net amount - for the applicable vat rate.

### 6.78.2.2 ScheduledPayment

[ScheduledPayment](#)

### 6.78.2.3 VatAmount

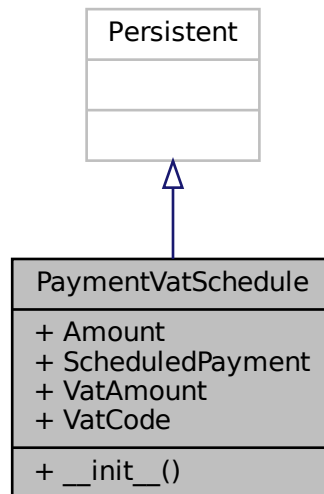
VatAmount

### 6.78.2.4 VatCode

VatCode

## 6.79 PaymentVatSchedule Class Reference

Inheritance diagram for PaymentVatSchedule:



### Public Attributes

- [Amount](#)
- [ScheduledPayment](#)
- [VatAmount](#)
- [VatCode](#)

### 6.79.1 Detailed Description

Deltanji status:

Object	WorkFile.PaymentVatSchedule.CLS/MARINA.0
Component	CLS.WorkFile.PaymentVatSchedule
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.79.2 Member Data Documentation

### 6.79.2.1 Amount

Amount

### 6.79.2.2 ScheduledPayment

[ScheduledPayment](#)

### 6.79.2.3 VatAmount

VatAmount

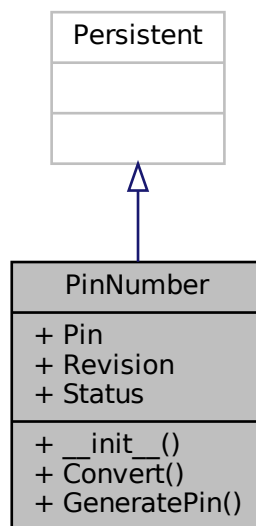
### 6.79.2.4 VatCode

VatCode

## 6.80 PinNumber Class Reference

Pin Number linked to boat.

Inheritance diagram for PinNumber:



### Static Public Member Functions

- `_.Library.Integer GeneratePin ()`  
*Generate a pin number with check digit to identify a boat.*

### Public Attributes

- `Pin`  
*Unique to boat pin number.*
- `Revision`
- `Status`  
*True Pin number is Current and valid.*

### 6.80.1 Detailed Description

Pin Number linked to boat.

Deltanji status:

Object	ClearWater.PinNumber.CLS/MARINA.0
Component	CLS.ClearWater.PinNumber
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.80.2 Member Data Documentation

### 6.80.2.1 Pin

Pin

Unique to boat pin number.

### 6.80.2.2 Revision

Revision

### 6.80.2.3 Status

Status

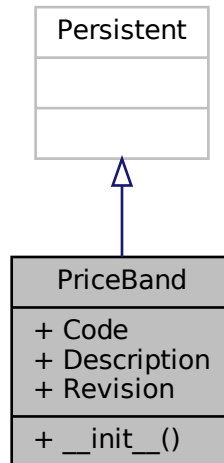
True Pin number is Current and valid.

False Pin Number is no longer valid



## 6.81 PriceBand Class Reference

Inheritance diagram for PriceBand:



### Public Attributes

- [Code](#)
- [Description](#)
- [Revision](#)

### 6.81.1 Detailed Description

Deltanji status:

Object	ClearWater.PriceBand.CLS/MARINA.0
Component	CLS.ClearWater.PriceBand
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.81.2 Member Data Documentation

### 6.81.2.1 Code

Code

### 6.81.2.2 Description

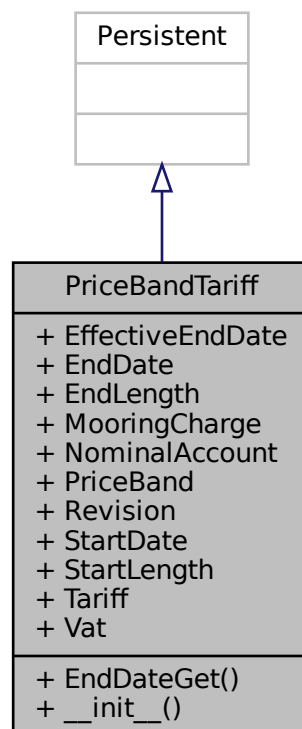
Description

### 6.81.2.3 Revision

Revision

## 6.82 PriceBandTariff Class Reference

Inheritance diagram for PriceBandTariff:



## Public Attributes

- [EffectiveEndDate](#)
- [EndDate](#)
- [EndLength](#)
- [MooringCharge](#)
- [NominalAccount](#)
- [PriceBand](#)
- [Revision](#)
- [StartDate](#)
- [StartLength](#)
- [Tariff](#)
- [Vat](#)

### 6.82.1 Detailed Description

Deltanji status:

Object	ClearWater.PriceBandTariff.CLS/MARINA.0
Component	CLS.ClearWater.PriceBandTariff
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.82.2 Member Data Documentation

#### 6.82.2.1 EffectiveEndDate

`EffectiveEndDate`

**6.82.2.2 EndDate**

EndDate

**6.82.2.3 EndLength**

EndLength

**6.82.2.4 MooringCharge**

[MooringCharge](#)

**6.82.2.5 NominalAccount**

NominalAccount

**6.82.2.6 PriceBand**

[PriceBand](#)

**6.82.2.7 Revision**

Revision

### 6.82.2.8 StartDate

StartDate

### 6.82.2.9 StartLength

StartLength

### 6.82.2.10 Tariff

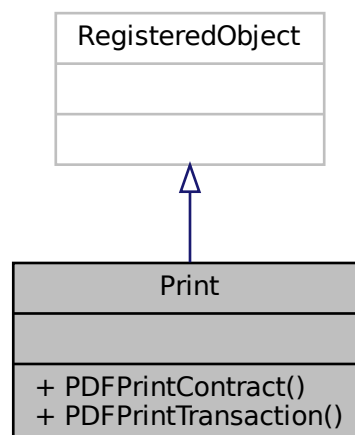
Tariff

### 6.82.2.11 Vat

Vat

## 6.83 Print Class Reference

Inheritance diagram for Print:



## Static Public Member Functions

- `_.Library.String PDFPrintTransaction` (`_.Library.String transactionId`, `_.Library.String areald`, `_.Library.String username`)

*Print pdf transactions from VB interface via cwasp call.*

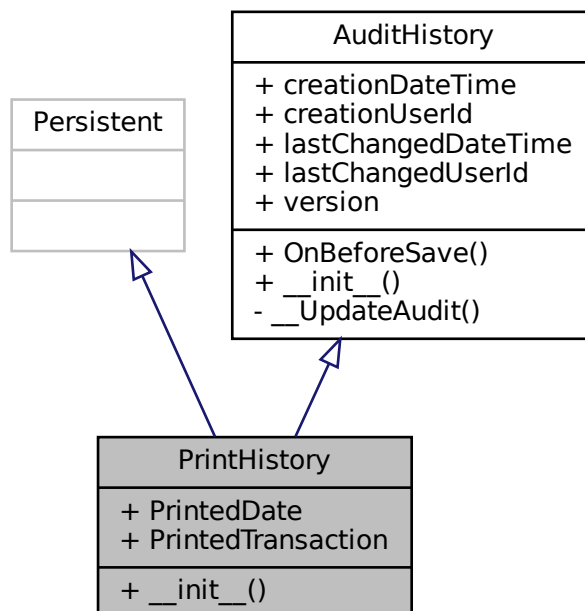
### 6.83.1 Detailed Description

Deltanji status:

Object	ClearWater.Print.CLS/MARINA.0
Component	CLS.ClearWater.Print
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.84 PrintHistory Class Reference

Inheritance diagram for PrintHistory:



## Public Member Functions

- `def __init__` (self)

## Public Attributes

- [PrintedDate](#)
- [PrintedTransaction](#)

### 6.84.1 Detailed Description

Deltanji status:

Object	ClearWater.PrintHistory.CLS/MARINA.0
Component	CLS.ClearWater.PrintHistory
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.84.2 Constructor & Destructor Documentation

#### 6.84.2.1 `__init__()`

```
def __init__ (
    self )
```

Deltanji status:

Object	ClearWater.PrintHistory.CLS/MARINA.0
Component	CLS.ClearWater.PrintHistory
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

Reimplemented from [AuditHistory](#).

### 6.84.3 Member Data Documentation

#### 6.84.3.1 `PrintedDate`

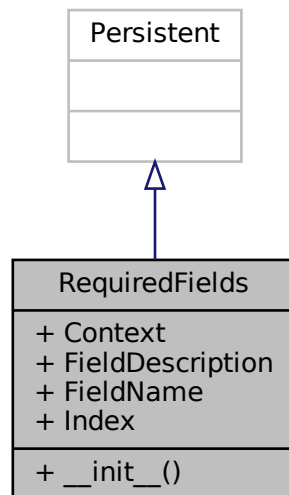
`PrintedDate`

### 6.84.3.2 PrintedTransaction

PrintedTransaction

## 6.85 RequiredFields Class Reference

Inheritance diagram for RequiredFields:



### Public Attributes

- [Context](#)
- [FieldDescription](#)
- [FieldName](#)
- [Index](#)

### 6.85.1 Detailed Description

Deltanji status:



Object	ClearWater.RequiredFields.CLS/MARINA.0
Component	CLS.ClearWater.RequiredFields
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.85.2 Member Data Documentation

### 6.85.2.1 Context

Context

### 6.85.2.2 FieldDescription

FieldDescription

### 6.85.2.3 FieldName

FieldName

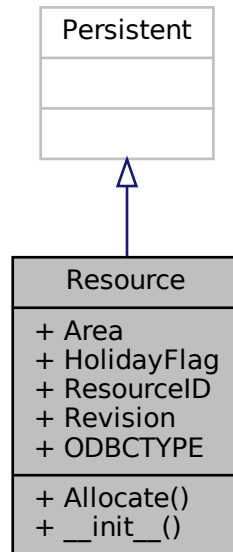
### 6.85.2.4 Index

Index

## 6.86 Resource Class Reference

A discrete resource which can be allocated/deallocated\neg:\nMooring: 101\nBerth: 101/102\nRoom: 408\nClinic: SmithWednesday\nHardware: SN12008989 (Serial Number)  
Generated from Mooring/Berth classes by running ^shmmas140.

Inheritance diagram for Resource:



### Public Attributes

- [Area](#)
- [HolidayFlag](#)  
*see [Area.HolidayFlag](#)*
- [ResourceID](#)  
*Should be named ResourceCode.*
- [Revision](#)

### 6.86.1 Detailed Description

A discrete resource which can be allocated/deallocated\neg:\nMooring: 101\nBerth: 101/102\nRoom: 408\nClinic: SmithWednesday\nHardware: SN12008989 (Serial Number)  
Generated from Mooring/Berth classes by running ^shmmas140.

Deltanji status:

Object	ClearWater.Resource.CLS/MARINA.0
Component	CLS.ClearWater.Resource
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.86.2 Member Data Documentation

### 6.86.2.1 Area

[Area](#)

### 6.86.2.2 HolidayFlag

HolidayFlag

see [Area.HolidayFlag](#)

### 6.86.2.3 ResourceID

ResourceID

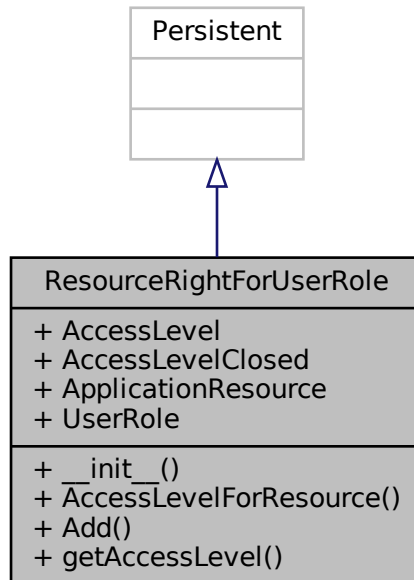
Should be named ResourceCode.

### 6.86.2.4 Revision

Revision

## 6.87 ResourceRightForUserRole Class Reference

Inheritance diagram for ResourceRightForUserRole:



### Static Public Member Functions

- `_.Library.Integer AccessLevelForResource` (`_.Library.String resourcename`, `_.Library.String context`, `_.Library.String username`, `_.Library.String areaid`, `_.Library.String indexnumber`, `_.Library.String status`)  
*status - the status of the licensee - are we checking for closed access levels*
- `_.Library.Integer getAccessLevel` (`_.Library.String Resource`, `_.Library.String Context`, `_.Library.String User`, `_.Library.String Area`, `_.Library.String Index`)  
*Returns:*

### Public Attributes

- `AccessLevel`  
*0 - Valid*
- `AccessLevelClosed`  
*access level for closed accounts*
- `ApplicationResource`
- `UserRole`

### 6.87.1 Detailed Description

Deltanji status:

Object	ClearWater.ResourceRightForUserRole.CLS/MARINA.0
Component	CLS.ClearWater.ResourceRightForUserRole
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.87.2 Member Function Documentation

### 6.87.2.1 getAccessLevel()

```
_.Library.Integer getAccessLevel (
    _.Library.String Resource,
    _.Library.String Context,
    _.Library.String User,
    _.Library.String Area,
    _.Library.String Index ) [static]
```

Returns:

0 - Full Access 1 - Read Only 2 - Control Disabled and/or Invisible

Note: If an access level has not been defined for the set of parameters passed - the default is to give Full Access rights.

## 6.87.3 Member Data Documentation

### 6.87.3.1 AccessLevel

AccessLevel

0 - Valid

1 - inactive (disabled) 2 - invisible

### 6.87.3.2 AccessLevelClosed

AccessLevelClosed

access level for closed accounts

### 6.87.3.3 ApplicationResource

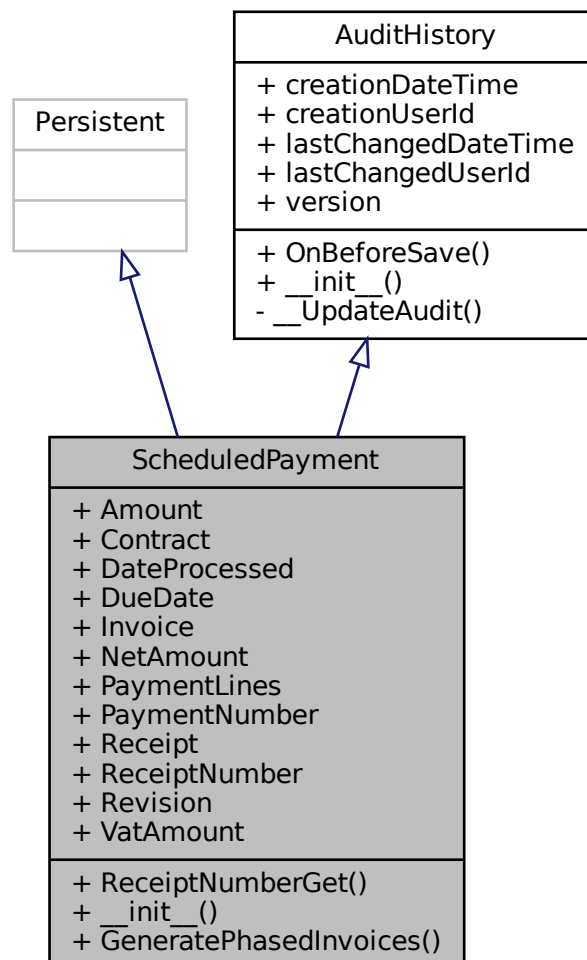
[ApplicationResource](#)

### 6.87.3.4 UserRole

[UserRole](#)

## 6.88 ScheduledPayment Class Reference

Inheritance diagram for ScheduledPayment:



## Public Attributes

- [Amount](#)
- [Contract](#)
- [DateProcessed](#)
- [DueDate](#)
- [Invoice](#)
- [NetAmount](#)
- [PaymentLines](#)  
*Are there payment lines for this [ScheduledPayment](#) ?*
- [PaymentNumber](#)
- [Receipt](#)
- [ReceiptNumber](#)
- [Revision](#)
- [VatAmount](#)

## Additional Inherited Members

### 6.88.1 Detailed Description

Deltanji status:

Object	ClearWater.ScheduledPayment.CLS/MARINA.0
Component	CLS.ClearWater.ScheduledPayment
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.88.2 Member Data Documentation

#### 6.88.2.1 Amount

Amount

### 6.88.2.2 Contract

[Contract](#)

### 6.88.2.3 DateProcessed

DateProcessed

### 6.88.2.4 DueDate

DueDate

### 6.88.2.5 Invoice

[Invoice](#)

### 6.88.2.6 NetAmount

NetAmount

### 6.88.2.7 PaymentLines

PaymentLines

Are there payment lines for this [ScheduledPayment](#) ?

ie is it post release 4



### 6.88.2.8 PaymentNumber

PaymentNumber

### 6.88.2.9 Receipt

Receipt

### 6.88.2.10 ReceiptNumber

ReceiptNumber

### 6.88.2.11 Revision

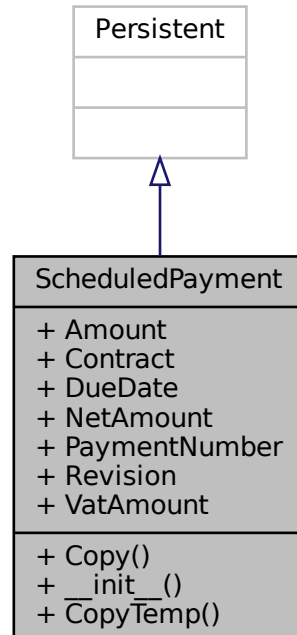
Revision

### 6.88.2.12 VatAmount

VatAmount

## 6.89 ScheduledPayment Class Reference

Inheritance diagram for ScheduledPayment:



### Public Attributes

- [Amount](#)
- [Contract](#)
- [DueDate](#)
- [NetAmount](#)
- [PaymentNumber](#)
- [Revision](#)
- [VatAmount](#)

### 6.89.1 Detailed Description

Deltanji status:

Object	WorkFile.ScheduledPayment.CLS/MARINA.0
Component	CLS.WorkFile.ScheduledPayment
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.89.2 Member Data Documentation

### 6.89.2.1 Amount

Amount

### 6.89.2.2 Contract

Contract

### 6.89.2.3 DueDate

DueDate

### 6.89.2.4 NetAmount

NetAmount

### 6.89.2.5 PaymentNumber

PaymentNumber

### 6.89.2.6 Revision

Revision

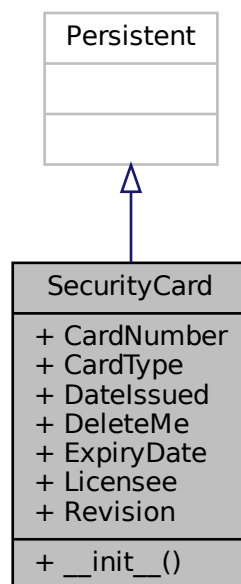
### 6.89.2.7 VatAmount

VatAmount

## 6.90 SecurityCard Class Reference

Security or gate cards.

Inheritance diagram for SecurityCard:



## Public Attributes

- [CardNumber](#)
- [CardType](#)
- [DateIssued](#)
- [DeleteMe](#)
- [ExpiryDate](#)
- [Licensee](#)
- [Revision](#)

### 6.90.1 Detailed Description

Security or gate cards.

Deltanji status:

Object	ClearWater.SecurityCard.CLS/MARINA.0
Component	CLS.ClearWater.SecurityCard
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.90.2 Member Data Documentation

#### 6.90.2.1 CardNumber

[CardNumber](#)

#### 6.90.2.2 CardType

[CardType](#)

### 6.90.2.3 DateIssued

DateIssued

### 6.90.2.4 DeleteMe

DeleteMe

### 6.90.2.5 ExpiryDate

ExpiryDate

### 6.90.2.6 Licensee

Licensee

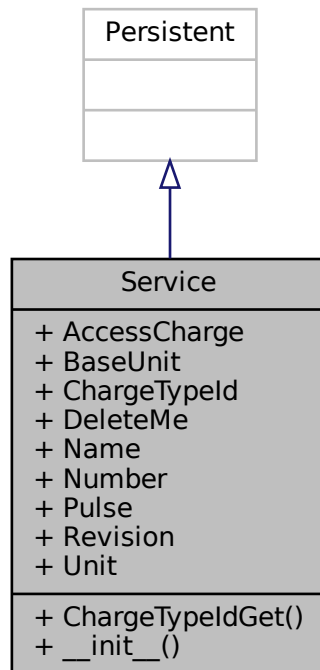
### 6.90.2.7 Revision

Revision

## 6.91 Service Class Reference

Electricity/Water etc [Service](#) routine shmmas430.

Inheritance diagram for Service:



### Public Attributes

- [AccessCharge](#)
- [BaseUnit](#)
- [ChargeTypeId](#)
- [DeleteMe](#)
- [Name](#)  
*Name of [Service](#) e.g.*
- [Number](#)  
*the data logger order of the service*
- [Pulse](#)  
*Multiplier used to calculate usage.*
- [Revision](#)
- [Unit](#)  
*Litres.*

### 6.91.1 Detailed Description

Electricity/Water etc [Service](#) routine shmms430.

Deltanji status:

Object	ClearWater.Service.CLS/MARINA.0
Component	CLS.ClearWater.Service
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.91.2 Member Data Documentation

#### 6.91.2.1 AccessCharge

AccessCharge

#### 6.91.2.2 BaseUnit

BaseUnit

#### 6.91.2.3 ChargeTypeId

ChargeTypeId

#### 6.91.2.4 DeleteMe

DeleteMe



### 6.91.2.5 Name

Name

Name of [Service](#) e.g.

Water,Electricity etc

### 6.91.2.6 Number

Number

the data logger order of the service

standard order is

no. Binary 0 electric 1 1 water 2 2 tv 4 3 phone 8 4 security 16 5 n/u 32 6 n/u 64 7 reset all 128

### 6.91.2.7 Pulse

Pulse

Multiplier used to calculate usage.

ie the number of pulses per KW/H

### 6.91.2.8 Revision

Revision

### 6.91.2.9 Unit

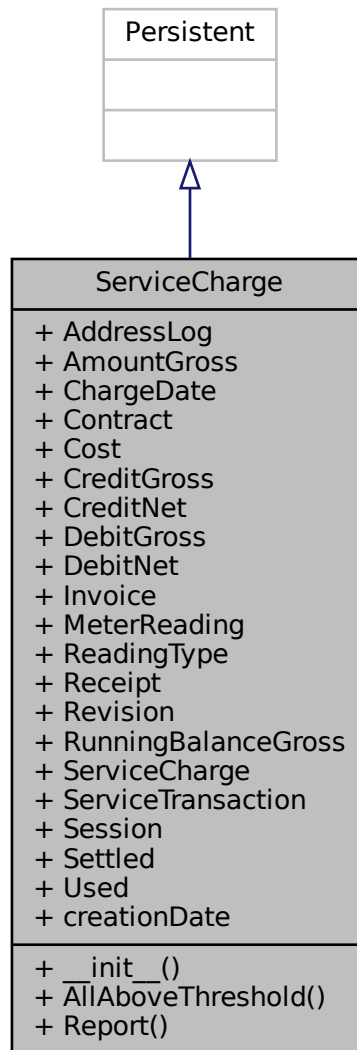
Unit

Litres.

KW/H etc

## 6.92 ServiceCharge Class Reference

Inheritance diagram for ServiceCharge:



### Public Attributes

- [AddressLog](#)
- [AmountGross](#)
- [ChargeDate](#)
- [Contract](#)

- [Cost](#)
- [CreditGross](#)
- [CreditNet](#)
- [DebitGross](#)
- [DebitNet](#)
- [Invoice](#)
- [MeterReading](#)
- [ReadingType](#)
- [Receipt](#)
- [Revision](#)
- [RunningBalanceGross](#)
- [ServiceCharge](#)
- [ServiceTransaction](#)
- [Session](#)
- [Settled](#)
- [Used](#)
- [creationDate](#)

### 6.92.1 Detailed Description

Deltanji status:

Object	WorkFile.ServiceCharge.CLS/MARINA.0
Component	CLS.WorkFile.ServiceCharge
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.92.2 Member Data Documentation

**6.92.2.1 AddressLog**

AddressLog

**6.92.2.2 AmountGross**

AmountGross

**6.92.2.3 ChargeDate**

ChargeDate

**6.92.2.4 Contract**

Contract

**6.92.2.5 Cost**

Cost

**6.92.2.6 CreditGross**

CreditGross

### 6.92.2.7 CreditNet

CreditNet

### 6.92.2.8 DebitGross

DebitGross

### 6.92.2.9 DebitNet

DebitNet

### 6.92.2.10 Invoice

Invoice

### 6.92.2.11 MeterReading

MeterReading

### 6.92.2.12 ReadingType

ReadingType

**6.92.2.13 Receipt**

Receipt

**6.92.2.14 Revision**

Revision

**6.92.2.15 RunningBalanceGross**

RunningBalanceGross

**6.92.2.16 ServiceCharge**

[ServiceCharge](#)

**6.92.2.17 ServiceTransaction**

ServiceTransaction

**6.92.2.18 Session**

Session

### 6.92.2.19 Settled

Settled

### 6.92.2.20 Used

Used

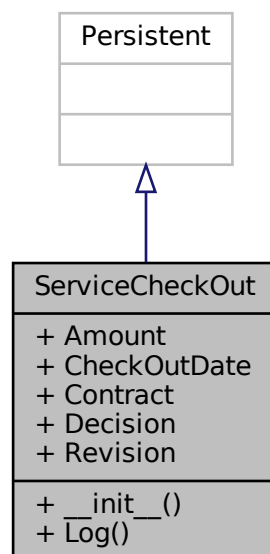
### 6.92.2.21 creationDate

creationDate

## 6.93 ServiceCheckOut Class Reference

logs checkouts of services and what is done with outstanding credit

Inheritance diagram for ServiceCheckOut:



## Public Attributes

- [Amount](#)
- [CheckOutDate](#)
- [Contract](#)
- [Decision](#)
- [Revision](#)

### 6.93.1 Detailed Description

logs checkouts of services and what is done with outstanding credit

Deltanji status:

Object	ClearWater.ServiceCheckOut.CLS/MARINA.0
Component	CLS.ClearWater.ServiceCheckOut
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.93.2 Member Data Documentation

#### 6.93.2.1 Amount

Amount

#### 6.93.2.2 CheckOutDate

CheckOutDate



### 6.93.2.3 Contract

[Contract](#)

### 6.93.2.4 Decision

[Decision](#)

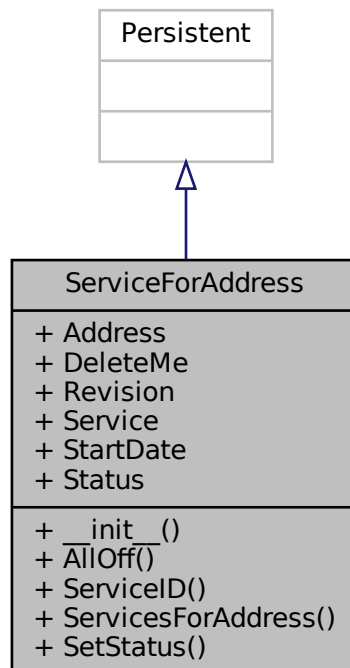
### 6.93.2.5 Revision

[Revision](#)

## 6.94 ServiceForAddress Class Reference

Link between services and bollard addresses.

Inheritance diagram for ServiceForAddress:



## Static Public Member Functions

- [AllOff](#) ( `_.Library.String addressid`)  
*set all services for this address to a status of off*
- `_.Library.String` [ServiceID](#) ( `_.Library.String address`, `_.Library.String servicenumber`)  
*Get the service id for the address and service number.*
- [ServicesForAddress](#) ( `_.Library.String add`, `_.Library.String services`)  
*Return all services for this address.*
- `_.Library.Integer` [SetStatus](#) ( `_.Library.String addressid`, `_.Library.String serviceid`, `_.Library.String status`)  
*set the status of the service for address to On, called from a service check in*

## Public Attributes

- [Address](#)  
*The address of the [Service](#) switch.*
- [DeleteMe](#)
- [Revision](#)
- [Service](#)  
*Type is [Service](#).*
- [StartDate](#)
- [Status](#)  
*on or off*

### 6.94.1 Detailed Description

Link between services and bollard addresses.

Deltanji status:

Object	ClearWater.ServiceForAddress.CLS/MARINA.0
Component	CLS.ClearWater.ServiceForAddress
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.94.2 Member Data Documentation

#### 6.94.2.1 Address

[Address](#)

The address of the [Service](#) switch.

### 6.94.2.2 DeleteMe

DeleteMe

### 6.94.2.3 Revision

Revision

### 6.94.2.4 Service

[Service](#)

Type is [Service](#).

### 6.94.2.5 StartDate

StartDate

### 6.94.2.6 Status

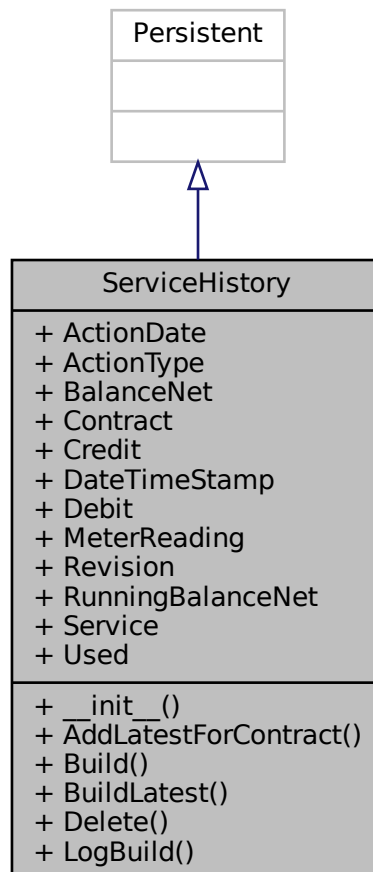
Status

on or off

## 6.95 ServiceHistory Class Reference

A temporary class to enable a report to show the outstanding balance for service usage on a bollard.

Inheritance diagram for ServiceHistory:



### Static Public Member Functions

- [LogBuild](#) (`_.Library.String contractid`)  
Build the history for the contract from the `invoiceLine` and `AddressLog` classes.

### Public Attributes

- [ActionDate](#)  
The date the action was made.
- [ActionType](#)  
Start, Reading, Final or Payment.
- [BalanceNet](#)

*The outstanding balance due for service usage.*

- [Contract](#)
- [Credit](#)
- [DateTimeStamp](#)
- [Debit](#)
- [MeterReading](#)
- [Revision](#)
- [RunningBalanceNet](#)
- [Service](#)
- [Used](#)

*The amount of services units used since the last reading.*

### 6.95.1 Detailed Description

A temporary class to enable a report to show the outstanding balance for service usage on a bollard.

Shows the meter readings and payments

Deltanji status:

Object	ClearWater.ServiceHistory.CLS/MARINA.0
Component	CLS.ClearWater.ServiceHistory
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.95.2 Member Data Documentation

#### 6.95.2.1 ActionDate

ActionDate

The date the action was made.

### 6.95.2.2 ActionType

ActionType

Start,Reading,Final or Payment.

### 6.95.2.3 BalanceNet

BalanceNet

The outstanding balance due for service usage.

-ve indicates monies owed +ve indicates the contract is in credit

### 6.95.2.4 Contract

[Contract](#)

### 6.95.2.5 Credit

Credit

### 6.95.2.6 DateTimeStamp

DateTimeStamp

### 6.95.2.7 Debit

Debit

### 6.95.2.8 MeterReading

MeterReading

### 6.95.2.9 Revision

Revision

### 6.95.2.10 RunningBalanceNet

RunningBalanceNet

### 6.95.2.11 Service

Service

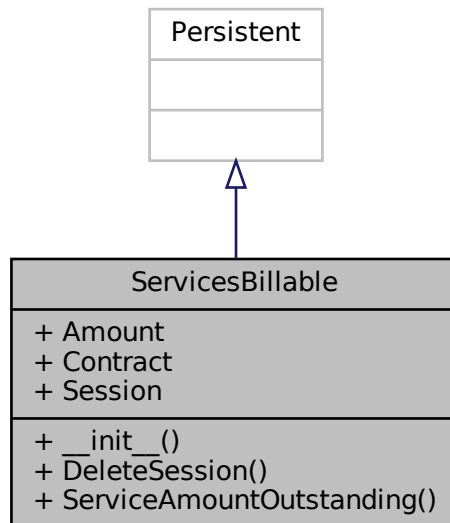
### 6.95.2.12 Used

Used

The amount of services units used since the last reading.

## 6.96 ServicesBillable Class Reference

Inheritance diagram for ServicesBillable:



### Public Attributes

- [Amount](#)
- [Contract](#)
- [Session](#)

### 6.96.1 Detailed Description

Deltanji status:

Object	WorkFile.ServicesBillable.CLS/MARINA.0
Component	CLS.WorkFile.ServicesBillable
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.96.2 Member Data Documentation



### 6.96.2.1 Amount

Amount

### 6.96.2.2 Contract

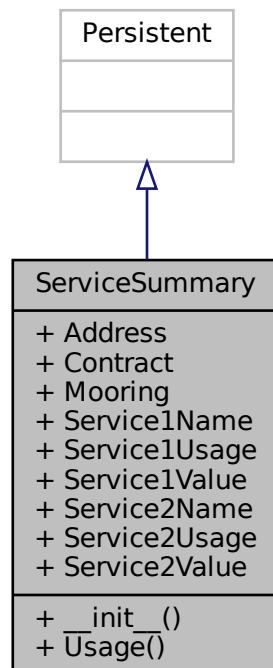
Contract

### 6.96.2.3 Session

Session

## 6.97 ServiceSummary Class Reference

Inheritance diagram for ServiceSummary:



## Public Attributes

- [Address](#)
- [Contract](#)
- [Mooring](#)
- [Service1Name](#)
- [Service1Usage](#)
- [Service1Value](#)
- [Service2Name](#)
- [Service2Usage](#)
- [Service2Value](#)

### 6.97.1 Detailed Description

Deltanji status:

Object	ClearWater.ServiceSummary.CLS/MARINA.0
Component	CLS.ClearWater.ServiceSummary
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.97.2 Member Data Documentation

#### 6.97.2.1 Address

[Address](#)

#### 6.97.2.2 Contract

[Contract](#)

### 6.97.2.3 Mooring

Mooring

### 6.97.2.4 Service1Name

Service1Name

### 6.97.2.5 Service1Usage

Service1Usage

### 6.97.2.6 Service1Value

Service1Value

### 6.97.2.7 Service2Name

Service2Name

### 6.97.2.8 Service2Usage

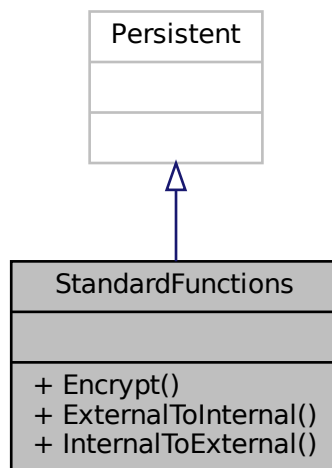
Service2Usage

### 6.97.2.9 Service2Value

Service2Value

## 6.98 StandardFunctions Class Reference

Inheritance diagram for StandardFunctions:



### Static Public Member Functions

- `_.Library.String` [ExternalToInternal](#) (`_.Library.String` external)  
*Converts internal length to external.*
- `_.Library.String` [InternalToExternal](#) (`_.Library.String` internal)  
*Converts internal length to external.*

### 6.98.1 Detailed Description

Deltanji status:

Object	ClearWater.StandardFunctions.CLS/MARINA.0
Component	CLS.ClearWater.StandardFunctions
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.98.2 Member Function Documentation

### 6.98.2.1 ExternalToInternal()

```
_.Library.String ExternalToInternal (
    _.Library.String external ) [static]
```

Converts internal length to external.

```
if unit is metres then do nothing
if unit is feet then convert decimal of foot into inches
```

### 6.98.2.2 InternalToExternal()

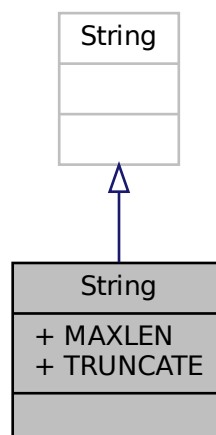
```
_.Library.String InternalToExternal (
    _.Library.String internal ) [static]
```

Converts internal length to external.

```
if unit is metres then do nothing
if unit is feet then convert inches into a decimal of a foot
```

## 6.99 String Class Reference

Inheritance diagram for String:



## Static Public Attributes

- [MAXLEN](#) = None  
*The maximum number of characters the string can contain.*
- [TRUNCATE](#) = None  
*Determines whether to truncate string to MAXLEN characters.*

### 6.99.1 Detailed Description

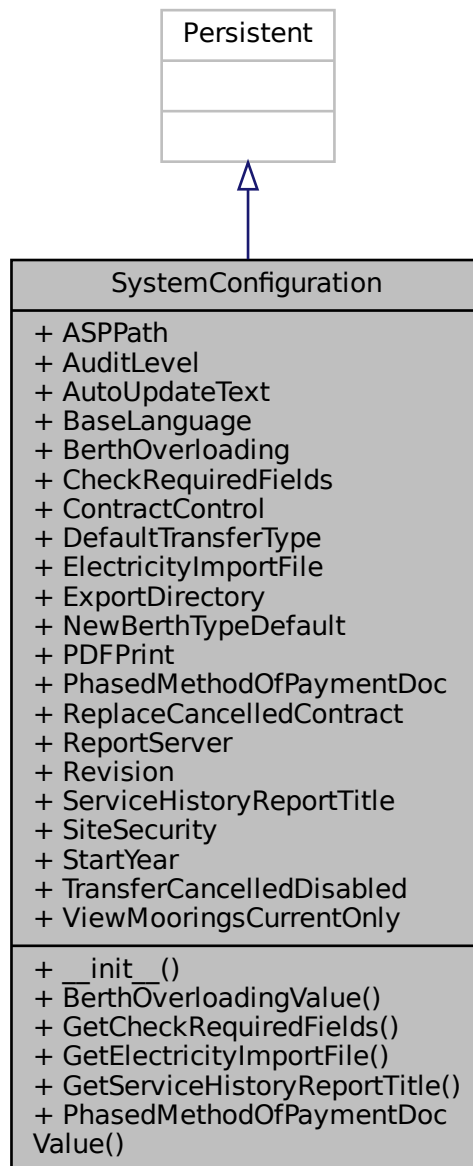
Deltanji status:

Object	Common.String.CLS/MARINA.0
Component	CLS.Common.String
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.100 SystemConfiguration Class Reference

Parameters define how [ClearWater](#) behaves.

Inheritance diagram for SystemConfiguration:



### Static Public Member Functions

- `_.Library.Boolean BerthOverloadingValue ()`  
*Parameters define how [ClearWater](#) behaves.*
- `_.Library.String GetElectricityImportFile ()`  
*Return the system default filename and directory for the file used as a work-sheet for recording electricity.*

## Public Attributes

- [ASPPath](#)  
*ie `http://vic/cwasp/gjax/cwasp.cwa`*
- [AuditLevel](#)  
*0 - Basic audit of class last change date/version*
- [AutoUpdateText](#)  
*Auto case change on Licensee/Boat details when saving.*
- [BaseLanguage](#)
- [BerthOverloading](#)  
*Are berths allowed to take boats bigger than the berth.*
- [CheckRequiredFields](#)
- [ContractControl](#)  
*Is the editing of the contract controlled.*
- [DefaultTransferType](#)  
*0 no default*
- [ElectricityImportFile](#)
- [ExportDirectory](#)
- [NewBerthTypeDefault](#)  
*0 no default*
- [PDFPrint](#)
- [PhasedMethodOfPaymentDoc](#)  
*Is there a separate phased Method of payment document?*
- [ReplaceCancelledContract](#)
- [ReportServer](#)
- [Revision](#)
- [ServiceHistoryReportTitle](#)  
*The Title of the [Service](#) History Report.*
- [SiteSecurity](#)
- [StartYear](#)  
*Used by date Controls - The year of the earliest records in the system.*
- [TransferCancelledDisabled](#)  
*Can cancelled contracts be transferred between moorings.*
- [ViewMooringsCurrentOnly](#)

### 6.100.1 Detailed Description

Parameters define how [ClearWater](#) behaves.

Deltanji status:



Object	ClearWater.SystemConfiguration.CLS/MARINA.0
Component	CLS.ClearWater.SystemConfiguration
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.100.2 Member Function Documentation

### 6.100.2.1 BerthOverloadingValue()

```
_.Library.Boolean BerthOverloadingValue ( ) [static]
```

Parameters define how [ClearWater](#) behaves.

Deltanji status:

Object	ClearWater.SystemConfiguration.CLS/MARINA.0
Component	CLS.ClearWater.SystemConfiguration
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.100.2.2 GetElectricityImportFile()

```
_.Library.String GetElectricityImportFile ( ) [static]
```

Return the system default filename and directory for the file used as a work-sheet for recording electricity.

meter readings and for importing electric readings into [ClearWater](#).

## 6.100.3 Member Data Documentation

### 6.100.3.1 ASPPath

ASPPath

ie <http://vic/cwasp/gjax/cwasp.cwa>

full path of web site to launch ClearWaterASP

### 6.100.3.2 AuditLevel

AuditLevel

0 - Basic audit of class last change date/version

1 - High level auditing each property change

### 6.100.3.3 AutoUpdateText

AutoUpdateText

Auto case change on Licensee/Boat details when saving.

Force some fields upper and other into title case.

### 6.100.3.4 BaseLanguage

BaseLanguage

### 6.100.3.5 BerthOverloading

BerthOverloading

Are berths allowed to take boats bigger than the berth.

0 - No 1 - Yes

### 6.100.3.6 CheckRequiredFields

CheckRequiredFields

### 6.100.3.7 ContractControl

ContractControl

Is the editing of the contract controlled.

0 no - editing enabled 1 true editing not allowed if contract has been printed/invoiced

### 6.100.3.8 DefaultTransferType

DefaultTransferType

0 no default

1 Temporary 2 Permanent

### 6.100.3.9 ElectricityImportFile

ElectricityImportFile

### 6.100.3.10 ExportDirectory

ExportDirectory

### 6.100.3.11 NewBerthTypeDefault

NewBerthTypeDefault

0 no default

1 Temporary 2 Permanent

### 6.100.3.12 PDFPrint

PDFPrint

### 6.100.3.13 PhasedMethodOfPaymentDoc

PhasedMethodOfPaymentDoc

Is there a separate phased Method of payment document?

0 - no 1 - yes

if there is then print it together with the normal mop document

(request by shepperton)

**6.100.3.14 ReplaceCancelledContract**

ReplaceCancelledContract

**6.100.3.15 ReportServer**

ReportServer

**6.100.3.16 Revision**

Revision

**6.100.3.17 ServiceHistoryReportTitle**

ServiceHistoryReportTitle

The Title of the [Service](#) History Report.

Initially for D & R 11/2/2003

**6.100.3.18 SiteSecurity**

SiteSecurity

**6.100.3.19 StartYear**

StartYear

Used by date Controls - The year of the earliest records in the system.

### 6.100.3.20 TransferCancelledDisabled

TransferCancelledDisabled

Can cancelled contracts be transferred between moorings.

1 yes 0 no

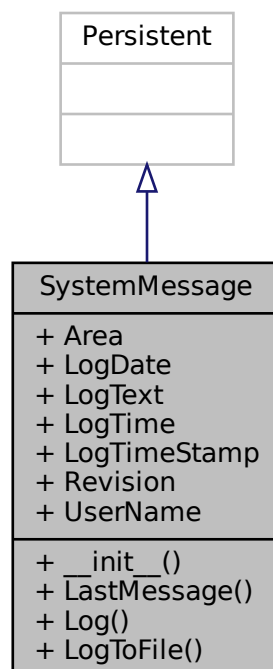
### 6.100.3.21 ViewMooringsCurrentOnly

ViewMooringsCurrentOnly

## 6.101 SystemMessage Class Reference

Message logging class.

Inheritance diagram for SystemMessage:



## Static Public Member Functions

- `_.Library.Status Log` (`_.Library.String Txt`, `_.Library.String area`, `_.Library.String username`, `_.Library.String logfile`)

*Class method to create and save a log message.*

## Public Attributes

- `Area`
- `LogDate`
- `LogText`  
*Text of the message.*
- `LogTime`
- `LogTimeStamp`
- `Revision`
- `UserName`

### 6.101.1 Detailed Description

Message logging class.

Deltanji status:

Object	ClearWater.SystemMessage.CLS/MARINA.0
Component	CLS.ClearWater.SystemMessage
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.101.2 Member Function Documentation

#### 6.101.2.1 Log()

```
_.Library.Status Log (
    _.Library.String Txt,
    _.Library.String area,
    _.Library.String username,
    _.Library.String logfile ) [static]
```

Class method to create and save a log message.

Returns the Save status code

## 6.101.3 Member Data Documentation

### 6.101.3.1 Area

Area

### 6.101.3.2 LogDate

LogDate

### 6.101.3.3 LogText

LogText

Text of the message.

### 6.101.3.4 LogTime

LogTime

### 6.101.3.5 LogTimeStamp

LogTimeStamp

**6.101.3.6 Revision**

Revision

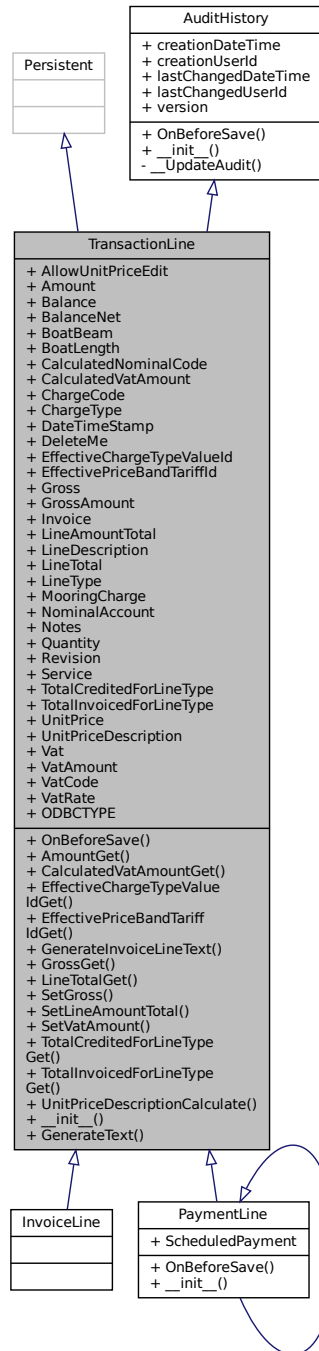
**6.101.3.7 UserName**

UserName



## 6.102 TransactionLine Class Reference

Inheritance diagram for TransactionLine:



### Public Member Functions

- `_.Library.Status OnBeforeSave` (`_.Library.Boolean insert`)

*If this method is overridden then you must call `..UpdateAudit()` yourself.*

## Static Public Member Functions

- `_.Library.String GenerateText (ClearWater.ChargeType oChargeType, ClearWater.MooringCharge oMooringCharge, _.Library.Float unitprice, _.Library.Float quantity, _.Library.Float length, _.Library.Float beam, _.Library.String contractdays, _.Library.Date startdate, _.Library.Date enddate, _.Library.Float tariff, _.Library.Boolean specialRate, _.Library.String chargeCode)`  
*Generate the invoiceline description.*

## Public Attributes

- `AllowUnitPriceEdit`
- `Amount`  
*Deprecated use LineAmountTotal.*
- `Balance`  
*The reamaining balance outstanding balance.*
- `BalanceNet`  
*Field used for D & R electricity.*
- `BoatBeam`
- `BoatLength`  
*Boat length at the time the invoice was created.*
- `CalculatedNominalCode`
- `CalculatedVatAmount`
- `ChargeCode`  
*code to enable the nominal code to be calculated for export to*
- `ChargeType`
- `DateTimeStamp`
- `DeleteMe`
- `EffectiveChargeTypeValueId`
- `EffectivePriceBandTariffId`
- `Gross`
- `GrossAmount`
- `Invoice`
- `LineAmountTotal`
- `LineDescription`
- `LineTotal`
- `LineType`

*To indicate what the payment line is for.*

- [MooringCharge](#)
- [NominalAccount](#)
- [Notes](#)
- [Quantity](#)
- [Revision](#)
- [Service](#)
- [TotalCreditedForLineType](#)

*For an invoice find the credited amounts so.*

- [TotalInvoicedForLineType](#)
- [UnitPrice](#)
- [UnitPriceDescription](#)

- [Vat](#)
- [VatAmount](#)

*This value is used for setting the vat amount.*

- [VatCode](#)
- [VatRate](#)

### 6.102.1 Detailed Description

Deltanji status:

Object	ClearWater.TransactionLine.CLS/MARINA.0
Component	CLS.ClearWater.TransactionLine
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.102.2 Member Data Documentation

#### 6.102.2.1 AllowUnitPriceEdit

AllowUnitPriceEdit

### 6.102.2.2 Amount

Amount

Deprecated use LineAmountTotal.

### 6.102.2.3 Balance

Balance

The reamaining balance outstanding balance.

(Field used for D & R Electric)

### 6.102.2.4 BalanceNet

BalanceNet

Field used for D & R electricity.

Outstanding Net balance due for services

### 6.102.2.5 BoatBeam

BoatBeam

### 6.102.2.6 BoatLength

BoatLength

[Boat](#) length at the time the invoice was created.

### 6.102.2.7 CalculatedNominalCode

CalculatedNominalCode

### 6.102.2.8 CalculatedVatAmount

CalculatedVatAmount

### 6.102.2.9 ChargeCode

[ChargeCode](#)

code to enable the nominal code to be calculated for export to an accounts package

### 6.102.2.10 ChargeType

[ChargeType](#)

### 6.102.2.11 DateTimeStamp

DateTimeStamp

### 6.102.2.12 DeleteMe

DeleteMe

### 6.102.2.13 EffectiveChargeTypeValueId

EffectiveChargeTypeValueId

**6.102.2.14 EffectivePriceBandTariffId**

EffectivePriceBandTariffId

**6.102.2.15 Gross**

Gross

**6.102.2.16 GrossAmount**

GrossAmount

**6.102.2.17 Invoice**

Invoice

**6.102.2.18 LineAmountTotal**

LineAmountTotal

**6.102.2.19 LineDescription**

LineDescription

**6.102.2.20 LineTotal**

LineTotal

**6.102.2.21 LineType**

LineType

To indicate what the payment line is for.

[Service](#) - Services - ie electricity

**6.102.2.22 MooringCharge**

[MooringCharge](#)

**6.102.2.23 NominalAccount**

NominalAccount

**6.102.2.24 Notes**

Notes

**6.102.2.25 Quantity**

Quantity

#### 6.102.2.26 Revision

Revision

#### 6.102.2.27 Service

Service

#### 6.102.2.28 TotalCreditedForLineType

TotalCreditedForLineType

For an invoice find the credited amounts so.

that a line type can not be over credited

type is defined by the charge type or the mooringcharge type

sum all the amount credited for the line type

ie invoice 100

total credited for mooringfees = £1400 total credited for Electricity =£100 Total credited for 10% discount = £150

#### 6.102.2.29 TotalInvoicedForLineType

TotalInvoicedForLineType

#### 6.102.2.30 UnitPrice

UnitPrice



### 6.102.2.31 UnitPriceDescription

UnitPriceDescription

### 6.102.2.32 Vat

Vat

### 6.102.2.33 VatAmount

VatAmount

This value is used for setting the vat amount.

it should not be read - but the calculatedvat amount should be read

if the vatamount is set it will override the otherwise calculatedvat amount but to make sure qe only look it one place  
CalculatedVat \*\*\*\* MUST\*\*\*\* be used

### 6.102.2.34 VatCode

VatCode

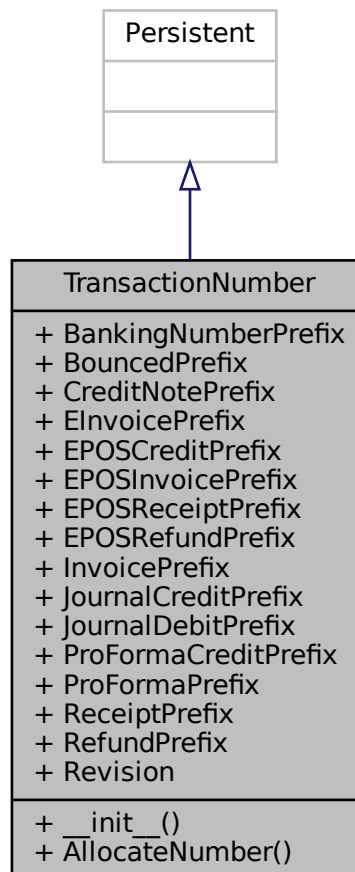
### 6.102.2.35 VatRate

VatRate

## 6.103 TransactionNumber Class Reference

If using distinct numbers for different types of transaction ie credit notes, receipts etc then this Class is used to store the last allocated number.

Inheritance diagram for TransactionNumber:



### Public Attributes

- [BankingNumberPrefix](#)
- [BouncedPrefix](#)
- [CreditNotePrefix](#)
- [EInvoicePrefix](#)
- [EPOSCreditPrefix](#)

- [EPOSInvoicePrefix](#)
- [EPOSReceiptPrefix](#)
- [EPOSRefundPrefix](#)
- [InvoicePrefix](#)
- [JournalCreditPrefix](#)
- [JournalDebitPrefix](#)
- [ProFormaCreditPrefix](#)
- [ProFormaPrefix](#)
- [ReceiptPrefix](#)
- [RefundPrefix](#)
- [Revision](#)

### 6.103.1 Detailed Description

If using distinct numbers for different types of transaction ie credit notes, receipts etc then this Class is used to store the last allocated number.

This class also contains the methods to allocate the new numbers. nb [Invoice](#) numbers are still handled in the [Invoice](#) class

Deltanji status:

Object	ClearWater.TransactionNumber.CLS/MARINA.0
Component	CLS.ClearWater.TransactionNumber
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.103.2 Member Data Documentation

#### 6.103.2.1 BankingNumberPrefix

`BankingNumberPrefix`

### 6.103.2.2 BouncedPrefix

BouncedPrefix

### 6.103.2.3 CreditNotePrefix

CreditNotePrefix

### 6.103.2.4 EInvoicePrefix

EInvoicePrefix

### 6.103.2.5 EPOSCreditPrefix

EPOSCreditPrefix

### 6.103.2.6 EPOSInvoicePrefix

EPOSInvoicePrefix

### 6.103.2.7 EPOSReceiptPrefix

EPOSReceiptPrefix

**6.103.2.8 EPOSRefundPrefix**

EPOSRefundPrefix

**6.103.2.9 InvoicePrefix**

InvoicePrefix

**6.103.2.10 JournalCreditPrefix**

JournalCreditPrefix

**6.103.2.11 JournalDebitPrefix**

JournalDebitPrefix

**6.103.2.12 ProFormaCreditPrefix**

ProFormaCreditPrefix

**6.103.2.13 ProFormaPrefix**

ProFormaPrefix

#### 6.103.2.14 ReceiptPrefix

ReceiptPrefix

#### 6.103.2.15 RefundPrefix

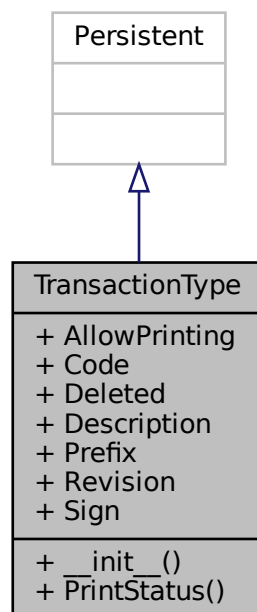
RefundPrefix

#### 6.103.2.16 Revision

Revision

### 6.104 TransactionType Class Reference

Inheritance diagram for TransactionType:



## Public Attributes

- [AllowPrinting](#)
- [Code](#)
- [Deleted](#)
- [Description](#)
- [Prefix](#)
- [Revision](#)
- [Sign](#)

### 6.104.1 Detailed Description

Deltanji status:

Object	ClearWater.TransactionType.CLS/MARINA.0
Component	CLS.ClearWater.TransactionType
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.104.2 Member Data Documentation

#### 6.104.2.1 AllowPrinting

`AllowPrinting`

#### 6.104.2.2 Code

`Code`

**6.104.2.3 Deleted**

Deleted

**6.104.2.4 Description**

Description

**6.104.2.5 Prefix**

Prefix

**6.104.2.6 Revision**

Revision

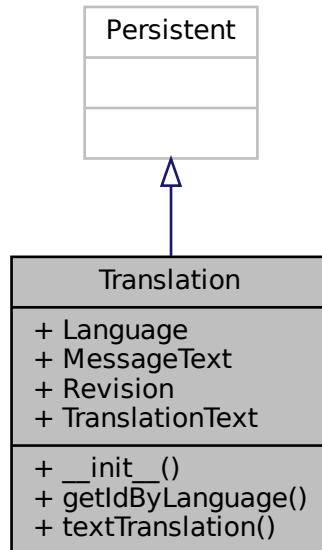
**6.104.2.7 Sign**

Sign



## 6.105 Translation Class Reference

Inheritance diagram for Translation:



### Static Public Member Functions

- `_.Library.String getIdByLanguage` (`ClearWater.Language` language, `ClearWater.MessageText` message)  
*Get translation ID given language and message.*
- `_.Library.String textTranslation` (`_.Library.String` text, `_.Library.String` language, `ClearWater.MessageText` messageId)  
*Given a text string retrieve its translation.*

### Public Attributes

- `Language`
- `MessageText`
- `Revision`
- `TranslationText`

### 6.105.1 Detailed Description

Deltanji status:

Object	ClearWater.Translation.CLS/MARINA.0
Component	CLS.ClearWater.Translation
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.105.2 Member Function Documentation

### 6.105.2.1 textTranslation()

```
_.Library.String textTranslation (
    _.Library.String text,
    _.Library.String language,
    ClearWater.MessageText messageId ) [static]
```

Given a text string retrieve its translation.

If no translation is found the string is returned as passed.

For cases where the English text string may be translated in more than one different ways depending on context, it is possible to specify the id of the message text required.

## 6.105.3 Member Data Documentation

### 6.105.3.1 Language

[Language](#)

### 6.105.3.2 MessageText

[MessageText](#)

### 6.105.3.3 Revision

Revision

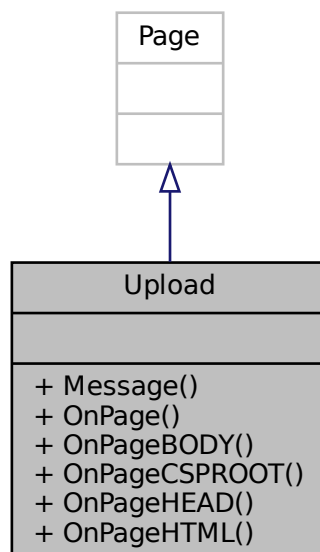
### 6.105.3.4 TranslationText

TranslationText

## 6.106 Upload Class Reference

[Upload](#) a file onto server.

Inheritance diagram for Upload:



### 6.106.1 Detailed Description

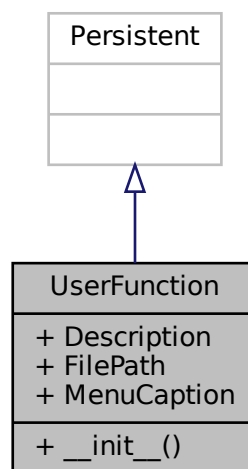
[Upload](#) a file onto server.

Deltanji status:

Object	ClearWater.Upload.CLS/MARINA.0
Component	CLS.ClearWater.Upload
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.107 UserFunction Class Reference

Inheritance diagram for UserFunction:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)(self)

### Public Attributes

- [Description](#)
- [FilePath](#)
- [MenuCaption](#)

### 6.107.1 Detailed Description

Deltanji status:

Object	ClearWater.UserFunction.CLS/MARINA.0
Component	CLS.ClearWater.UserFunction
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.107.2 Constructor & Destructor Documentation

### 6.107.2.1 `__init__()`

```
def __init__ (
    self )
```

Deltanji status:

Object	ClearWater.UserFunction.CLS/MARINA.0
Component	CLS.ClearWater.UserFunction
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.107.3 Member Data Documentation

### 6.107.3.1 Description

Description

### 6.107.3.2 FilePath

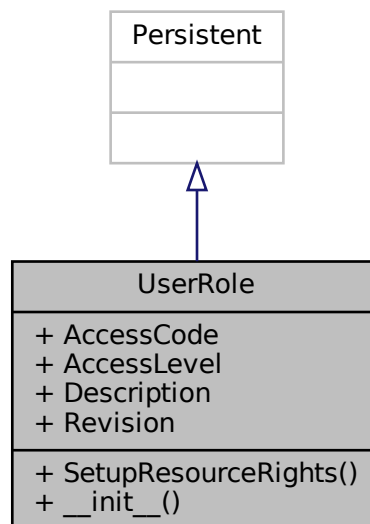
FilePath

### 6.107.3.3 MenuCaption

MenuCaption

## 6.108 UserRole Class Reference

Inheritance diagram for UserRole:



### Public Attributes

- [AccessCode](#)
- [AccessLevel](#)
- [Description](#)
- [Revision](#)

### 6.108.1 Detailed Description

Deltanji status:

Object	ClearWater.UserRole.CLS/MARINA.0
Component	CLS.ClearWater.UserRole
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.108.2 Member Data Documentation

### 6.108.2.1 AccessCode

AccessCode

### 6.108.2.2 AccessLevel

AccessLevel

### 6.108.2.3 Description

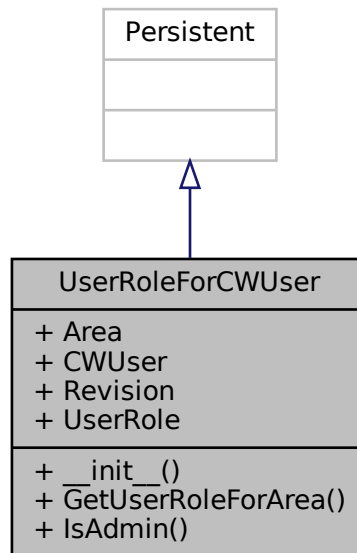
Description

### 6.108.2.4 Revision

Revision

## 6.109 UserRoleForCWUser Class Reference

Inheritance diagram for UserRoleForCWUser:



### Public Attributes

- [Area](#)
- [CWUser](#)
- [Revision](#)
- [UserRole](#)

### 6.109.1 Detailed Description

Deltanji status:

Object	ClearWater.UserRoleForCWUser.CLS/MARINA.0
Component	CLS.ClearWater.UserRoleForCWUser
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm



## 6.109.2 Member Data Documentation

### 6.109.2.1 Area

[Area](#)

### 6.109.2.2 CWUser

[CWUser](#)

### 6.109.2.3 Revision

[Revision](#)

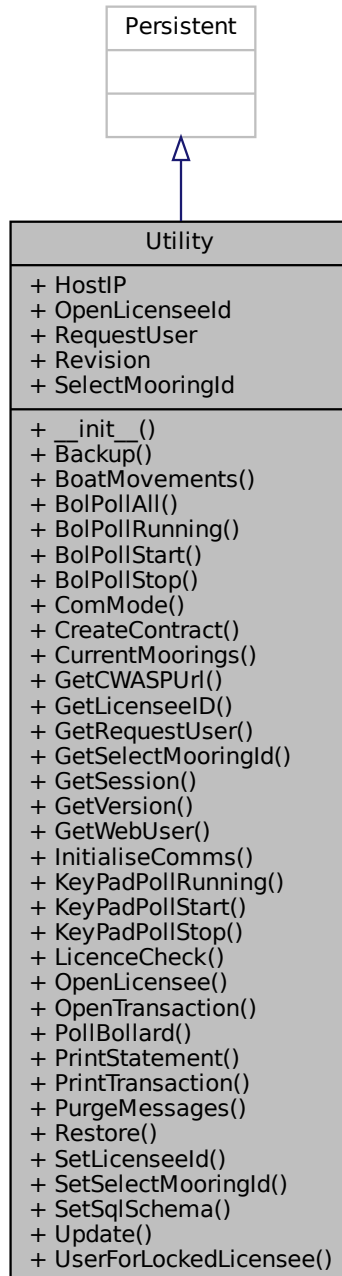
### 6.109.2.4 UserRole

[UserRole](#)

## 6.110 Utility Class Reference

Collection of 'class methods'.

Inheritance diagram for Utility:



### Static Public Member Functions

- `_.Library.Status Backup` (`_.Library.String File`)

- Do a quick global save - in GOF format.*

  - `_.Library.Integer BoatMovements` (`_.Library.Date StartDate`, `_.Library.Date EndDate`, `_.Library.String areaid`, `_.Library.String user`)
    - populate class of boat movements so that we can run the boat movements report*
  - `_.Library.Status BolPollAll` ()
    - Scans each bollard, currently in use, and calls the `CheckUsage()` method on the `Address` Object.*
  - `_.Library.Boolean BolPollRunning` ()
    - Returns true if the `Bollard` polling is running already.*
  - `_.Library.String BolPollStart` ()
    - Kick off the Background polling job.*
  - `_.Library.Boolean BolPollStop` ()
    - Stop `Bollard` Polling.*
  - `_.Library.String ComMode` ()
    - write the com port settings to a file*
  - `_.Library.Integer CreateContract` (`_.Library.Integer pinnumber`, `_.Library.Integer keypad`, `_.Library.String contractid`)
    - Generate a new contract based on input from keypad.*
  - `_.Library.Integer CurrentMooring` (`_.Library.Date date`, `_.Library.Boolean showall`, `_.Library.String areaid`, `↔` `_.Library.String user`, `_.Library.String location`, `_.Library.String future`)
    - ; This is an attempt to join tables while Cache SQL doesn't do it properly*
  - `_.Library.String GetSelectMooringId` (`_.Library.String ipaddress`)
    - return the value of `SelectMooringId` via a class method so that we don't have to open the class in VB*
  - `_.Library.String GetVersion` ()
    - get the version of clearwater mms or lite*
  - `_.Library.Integer InitialiseComms` ()
    - Initialise the com port for use with the LCD display and bollards.*
  - `_.Library.Integer KeyPadPollRunning` ()
    - is the key pad polling running 1 yes 0 no*
  - `_.Library.Integer KeyPadPollStart` ()
    - Which polling "AllOn" or "AllOff".*
  - `_.Library.Boolean KeyPadPollStop` ()
    - stop polling the key pads*
  - `_.Library.Numeric LicenceCheck` (`_.Library.String login`)
    - has the licence expired?*
  - `_.Library.Numeric PollBollard` (`_.Library.Numeric Address1`, `_.Library.Numeric Address2`, `_.Library.Numeric Services`, `_.Library.Numeric Electricity`, `_.Library.Numeric Water`, `_.Library.Numeric Telephone1`, `_.Library.↔` `_.Library.Numeric Telephone2`, `_.Library.Numeric Telephone3`, `_.Library.Numeric Telephone4`, `ClearWater.Contract contract`)
    - ; Address*
  - `PurgeMessages` ()
    - delete all system messages older than 1 week*
  - `_.Library.Status Restore` (`_.Library.String File`)
    - Restore from a backup.*
  - `SetSqlSchema` (`_.Library.String schema`)
    - set the default sql schema, so that ado updates work*
  - `_.Library.Integer Update` (`_.Library.String contractid`)
    - given a contract number set the status of the service for addresses to On*
  - `_.Library.String UserForLockedLicensee` (`_.Library.String licenseeld`)
    - Return the user for a locked licensee - ie a the user that has open the account that another user wants to look at.*

## Public Attributes

- [HostIP](#)  
*IP address of the pc on which the licensee will be opened.*
- [OpenLicenseId](#)  
*ID of [Licensee](#) to be Opened.*
- [RequestUser](#)  
*The name of the user who is making a request.*
- [Revision](#)
- [SelectMooringId](#)  
*[Mooring](#) selected for new contract from browser based map interface.*

### 6.110.1 Detailed Description

Collection of 'class methods'.

Deltanji status:

Object	ClearWater.Utility.CLS/MARINA.0
Component	CLS.ClearWater.Utility
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.110.2 Member Function Documentation

#### 6.110.2.1 CreateContract()

```

_.Library.Integer CreateContract (
    _.Library.Integer pinnumber,
    _.Library.Integer keypad,
    _.Library.String contractid ) [static]

```

Generate a new contract based on input from keypad.

Processing removed!

#### 6.110.2.2 CurrentMooring()

```

_.Library.Integer CurrentMooring (
    _.Library.Date date,
    _.Library.Boolean showall,
    _.Library.String areaid,
    _.Library.String user,
    _.Library.String location,
    _.Library.String future ) [static]

```

; This is an attempt to join tables while Cache SQL doesn't do it properly

; showall parameter 0 means don't get fields which aren't require - to speed it up

### 6.110.2.3 KeyPadPollStart()

```
_.Library.Integer KeyPadPollStart ( ) [static]
```

Which polling "AllOn" or "AllOff".

"KeyPad"

wait for input from keypad

1 can't open file 2 already running 3 error starting job Contact Removed!

### 6.110.2.4 PollBollard()

```
_.Library.Numeric PollBollard (
    _.Library.Numeric Address1,
    _.Library.Numeric Address2,
    _.Library.Numeric Services,
    _.Library.Numeric Electricity,
    _.Library.Numeric Water,
    _.Library.Numeric Telephone1,
    _.Library.Numeric Telephone2,
    _.Library.Numeric Telephone3,
    _.Library.Numeric Telephone4,
    ClearWater.Contract contract ) [static]
```

; Address

; Services bit 0 Elictric bit 1 Water bit 2 Tv bit 3 Phone bit 4 Security bit 5

bit 7 Reset all counts and electric meter

## 6.110.3 Member Data Documentation

### 6.110.3.1 HostIP

HostIP

IP address of the pc on which the licensee will be opened.

### 6.110.3.2 OpenLicenseId

OpenLicenseId

ID of [Licensee](#) to be Opened.

' this is set from the VFE application.

a timer then monitors to see if there is an id to open. If so then the [Licensee](#) is opened in [ClearWater](#).

### 6.110.3.3 RequestUser

RequestUser

The name of the user who is making a request.

### 6.110.3.4 Revision

Revision

### 6.110.3.5 SelectMooringId

SelectMooringId

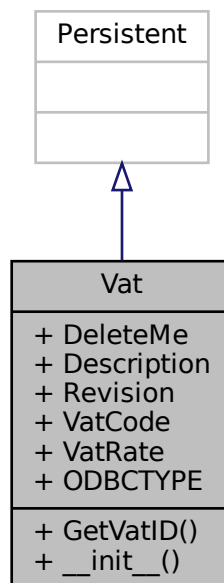
[Mooring](#) selected for new contract from browser based map interface.

Is checked by a timer in frmallcoatemooring

## 6.111 Vat Class Reference

value added tax rates

Inheritance diagram for Vat:



### Public Attributes

- [DeleteMe](#)
- [Description](#)
- [Revision](#)
- [VatCode](#)
- [VatRate](#)

### 6.111.1 Detailed Description

value added tax rates

Deltanji status:

Object	ClearWater.Vat.CLS/MARINA.0
Component	CLS.ClearWater.Vat
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.111.2 Member Data Documentation

### 6.111.2.1 DeleteMe

DeleteMe

### 6.111.2.2 Description

Description

### 6.111.2.3 Revision

Revision

### 6.111.2.4 VatCode

VatCode

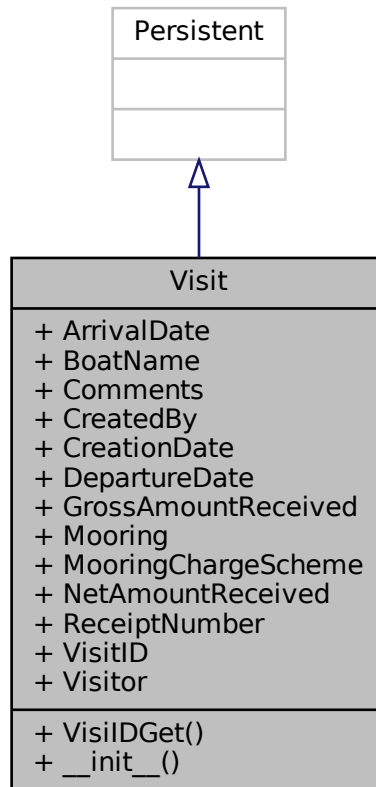
### 6.111.2.5 VatRate

VatRate



## 6.112 Visit Class Reference

Inheritance diagram for Visit:



### Public Attributes

- [ArrivalDate](#)
- [BoatName](#)
- [Comments](#)
- [CreatedBy](#)
- [CreationDate](#)
- [DepartureDate](#)
- [GrossAmountReceived](#)
- [Mooring](#)

- [MooringChargeScheme](#)
- [NetAmountReceived](#)
- [ReceiptNumber](#)
- [VisitID](#)
  - Id()*
- [Visitor](#)

### 6.112.1 Detailed Description

Deltanji status:

Object	ClearWater.Visit.CLS/MARINA.0
Component	CLS.ClearWater.Visit
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.112.2 Member Data Documentation

#### 6.112.2.1 ArrivalDate

ArrivalDate

#### 6.112.2.2 BoatName

BoatName

#### 6.112.2.3 Comments

Comments

**6.112.2.4 CreatedBy**

CreatedBy

**6.112.2.5 CreationDate**

CreationDate

**6.112.2.6 DepartureDate**

DepartureDate

**6.112.2.7 GrossAmountReceived**

GrossAmountReceived

**6.112.2.8 Mooring**

Mooring

**6.112.2.9 MooringChargeScheme**

MooringChargeScheme

**6.112.2.10 NetAmountReceived**

NetAmountReceived

**6.112.2.11 ReceiptNumber**

ReceiptNumber

**6.112.2.12 VisitID**

VisitID

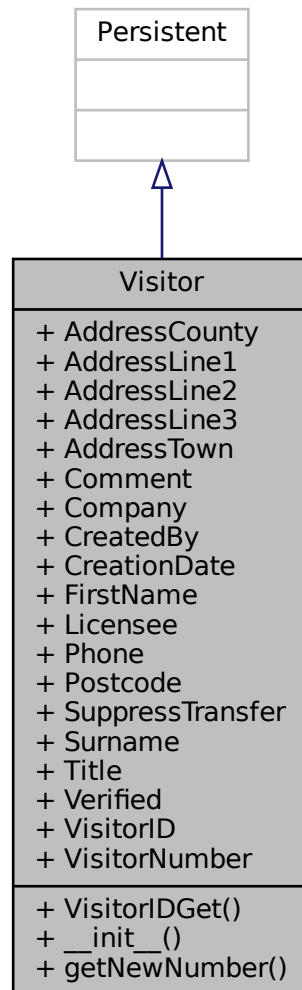
Id()

**6.112.2.13 Visitor**

Visitor

## 6.113 Visitor Class Reference

Inheritance diagram for Visitor:



### Public Attributes

- [AddressCounty](#)
- [AddressLine1](#)
- [AddressLine2](#)
- [AddressLine3](#)
- [AddressTown](#)

- [Comment](#)
- [Company](#)
- [CreatedBy](#)
- [CreationDate](#)
- [FirstName](#)
- [Licensee](#)
- [Phone](#)
- [Postcode](#)
- [SuppressTransfer](#)
- [Surname](#)
- [Title](#)
- [Verified](#)
- [VisitorID](#)
- [VisitorNumber](#)

### 6.113.1 Detailed Description

Deltanji status:

Object	ClearWater.Visitor.CLS/MARINA.0
Component	CLS.ClearWater.Visitor
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.113.2 Member Data Documentation

#### 6.113.2.1 AddressCounty

AddressCounty

**6.113.2.2 AddressLine1**

AddressLine1

**6.113.2.3 AddressLine2**

AddressLine2

**6.113.2.4 AddressLine3**

AddressLine3

**6.113.2.5 AddressTown**

AddressTown

**6.113.2.6 Comment**

Comment

**6.113.2.7 Company**

Company

**6.113.2.8 CreatedBy**

CreatedBy

**6.113.2.9 CreationDate**

CreationDate

**6.113.2.10 FirstName**

FirstName

**6.113.2.11 Licensee**

[Licensee](#)

**6.113.2.12 Phone**

Phone

**6.113.2.13 Postcode**

Postcode



**6.113.2.14 SuppressTransfer**

SuppressTransfer

**6.113.2.15 Surname**

Surname

**6.113.2.16 Title**

Title

**6.113.2.17 Verified**

Verified

**6.113.2.18 VisitorID**

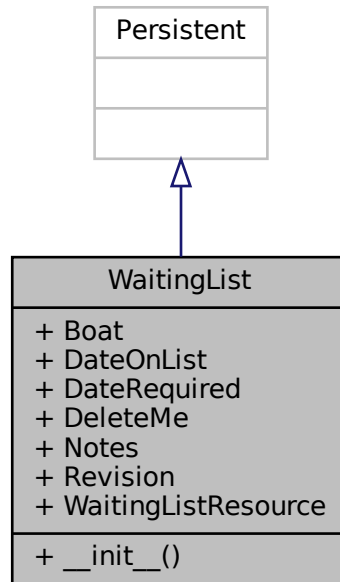
VisitorID

**6.113.2.19 VisitorNumber**

VisitorNumber

## 6.114 WaitingList Class Reference

Inheritance diagram for WaitingList:



### Public Attributes

- [Boat](#)
- [DateOnList](#)
- [DateRequired](#)
- [DeleteMe](#)
- [Notes](#)
- [Revision](#)
- [WaitingListResource](#)

### 6.114.1 Detailed Description

Deltanji status:

Object	ClearWater.WaitingList.CLS/MARINA.0
Component	CLS.ClearWater.WaitingList
Location	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.114.2 Member Data Documentation

### 6.114.2.1 Boat

Boat

### 6.114.2.2 DateOnList

DateOnList

### 6.114.2.3 DateRequired

DateRequired

### 6.114.2.4 DeleteMe

DeleteMe

### 6.114.2.5 Notes

Notes

### 6.114.2.6 Revision

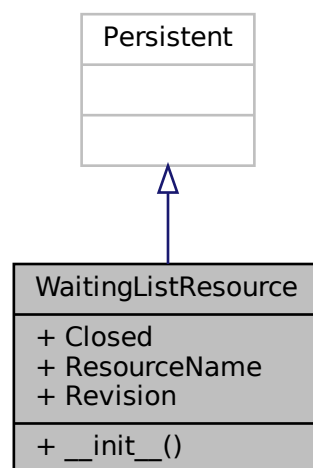
Revision

### 6.114.2.7 WaitingListResource

[WaitingListResource](#)

## 6.115 WaitingListResource Class Reference

Inheritance diagram for WaitingListResource:



### Public Attributes

- [Closed](#)
- [ResourceName](#)
- [Revision](#)

### 6.115.1 Detailed Description

Deltanji status:

Object	ClearWater.WaitingListResource.CLS/MARINA.0
Component	CLS.ClearWater.WaitingListResource
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.115.2 Member Data Documentation

### 6.115.2.1 Closed

Closed

### 6.115.2.2 ResourceName

ResourceName

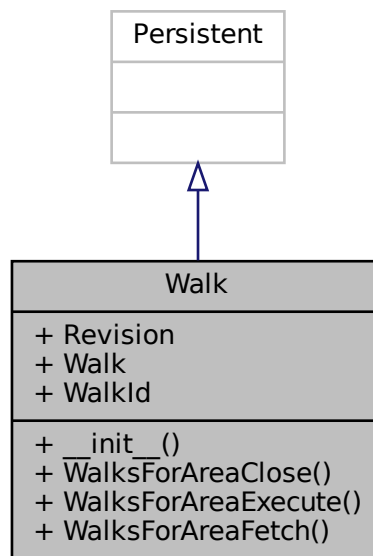
### 6.115.2.3 Revision

Revision

## 6.116 Walk Class Reference

Walks.

Inheritance diagram for Walk:



### Public Attributes

- [Revision](#)
- [Walk](#)
- [WalkId](#)

### 6.116.1 Detailed Description

Walks.

Deltanji status:

Object	ClearWater.Walk.CLS/MARINA.0
Component	CLS.ClearWater.Walk
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

## 6.116.2 Member Data Documentation

### 6.116.2.1 Revision

Revision

### 6.116.2.2 Walk

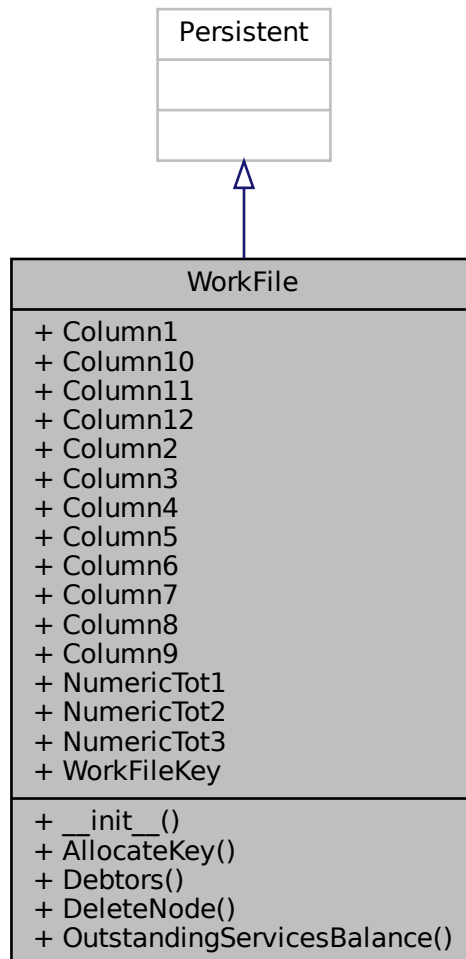
Walk

### 6.116.2.3 WalkId

WalkId

## 6.117 WorkFile Class Reference

Inheritance diagram for WorkFile:



### Static Public Member Functions

- [Debtors](#) (`_.Library.String` operator, `_.Library.Float` amount, `_.Library.String` contracts, `_.Library.String` [WorkFileKey](#))  
*Debtors Report.*
- [DeleteNode](#) (`_.Library.Integer` [WorkFileKey](#))  
*Delete work-file node.*
- `_.Library.Integer` [OutstandingServicesBalance](#) (`_.Library.String` operator, `_.Library.Float` amount, `_.Library.<=>String` contracts, `_.Library.Integer` [WorkFileKey](#), `_.Library.String` areald)  
*Generate the data for the Outstanding Services Balance Report.*



## Public Attributes

- [Column1](#)
- [Column10](#)
- [Column11](#)
- [Column12](#)
- [Column2](#)
- [Column3](#)
- [Column4](#)
- [Column5](#)
- [Column6](#)
- [Column7](#)
- [Column8](#)
- [Column9](#)
- [NumericTot1](#)
- [NumericTot2](#)
- [NumericTot3](#)
- [WorkFileKey](#)

### 6.117.1 Detailed Description

Deltanji status:

Object	ClearWater.WorkFile.CLS/MARINA.0
Component	CLS.ClearWater.WorkFile
<a href="#">Location</a>	MARINA.test2
Date/Time	15-May-20 21:21
User	johnm

### 6.117.2 Member Function Documentation

### 6.117.2.1 Debtors()

```
Debtors (
    _Library.String operator,
    _Library.Float amount,
    _Library.String contracts,
    _Library.String WorkFileKey ) [static]
```

#### Debtors Report.

This report varies depending on whether the site uses Invoices & Receipts or Pro-formas & Invoices like Dean & Reddyhoff.

## 6.117.3 Member Data Documentation

### 6.117.3.1 Column1

Column1

### 6.117.3.2 Column10

Column10

### 6.117.3.3 Column11

Column11

### 6.117.3.4 Column12

Column12

**6.117.3.5 Column2**

Column2

**6.117.3.6 Column3**

Column3

**6.117.3.7 Column4**

Column4

**6.117.3.8 Column5**

Column5

**6.117.3.9 Column6**

Column6

**6.117.3.10 Column7**

Column7

**6.117.3.11 Column8**

Column8

**6.117.3.12 Column9**

Column9

**6.117.3.13 NumericTot1**

NumericTot1

**6.117.3.14 NumericTot2**

NumericTot2

**6.117.3.15 NumericTot3**

NumericTot3

**6.117.3.16 WorkFileKey**

WorkFileKey

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