CAS OPOS DRIVER

Installation cum User Guide

CAS Weighing Scale

Product Overview

CAS offers a complete line of electronic legal for trade scales for price computing and portion control commercial weighing applications. The ER portion control scales for weighing in pounds, kilogram, grams and ounces and also capable to display sales price according to unit price. Designed with CAS reliability, the this series counting scale stands alone in its field with high accuracy, battery operated, and simple to use.

This document has been divided into two Sections i.e.

1) **Installation Manual**
2) **User Manual**

Let's discuss one by one using screen shots in details.

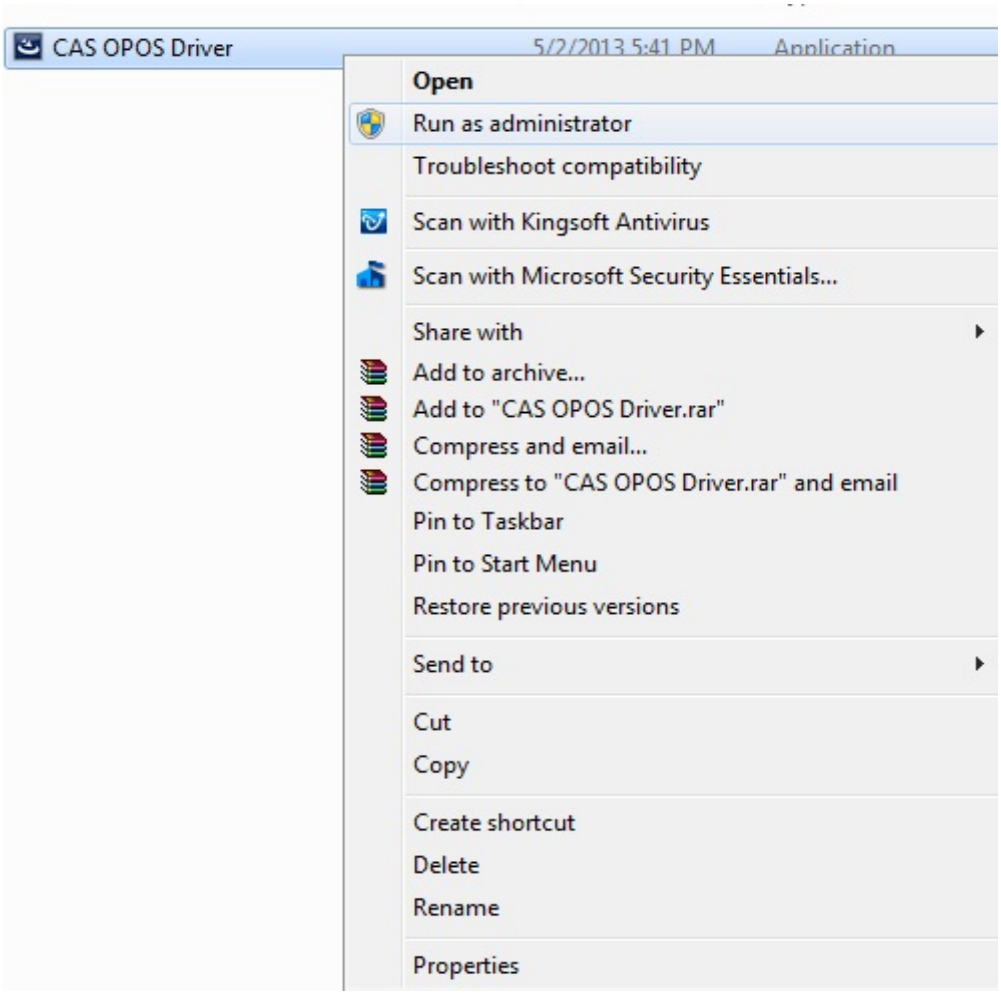
Installation of CAS OPOS Driver Setup

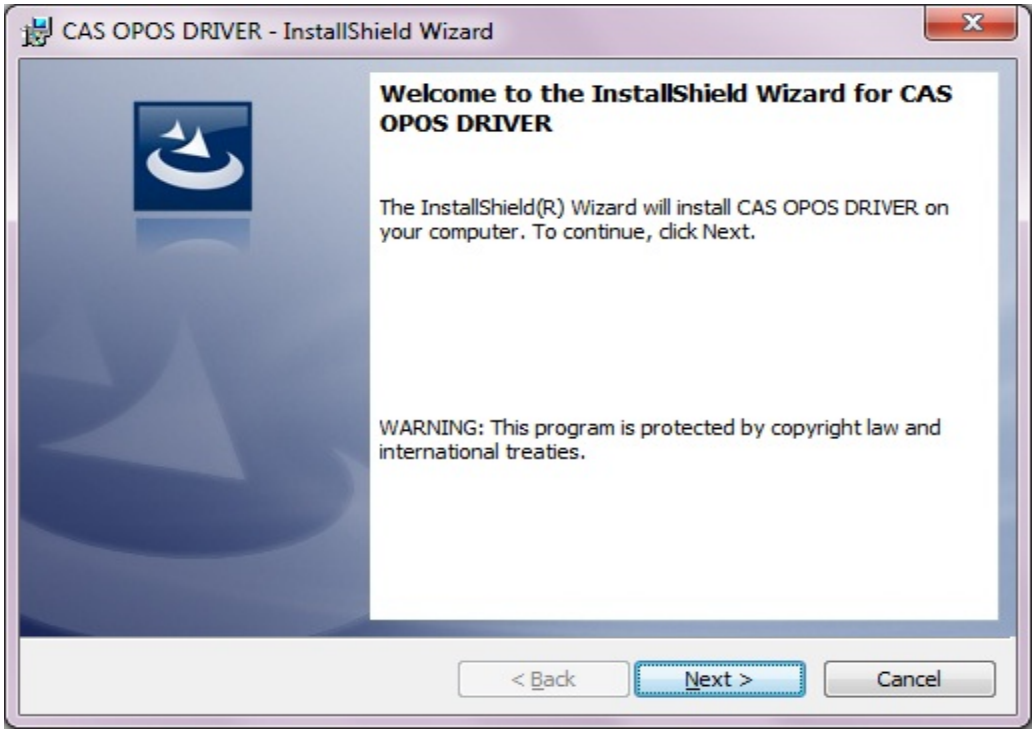
The setup has been created using Install Shield. So, by just double clicking the setup it'll execute and place the files to specified location.

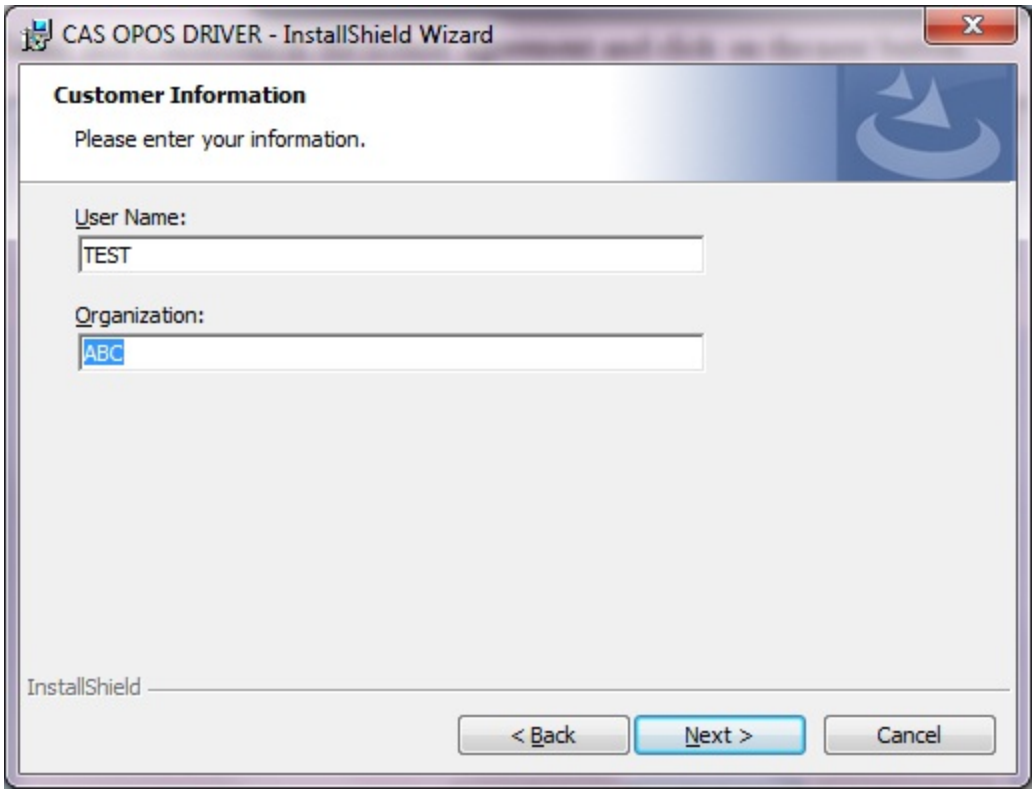
Destination folder for setup installation is "**C:\Program Files\CAS\CAS OPOS**"

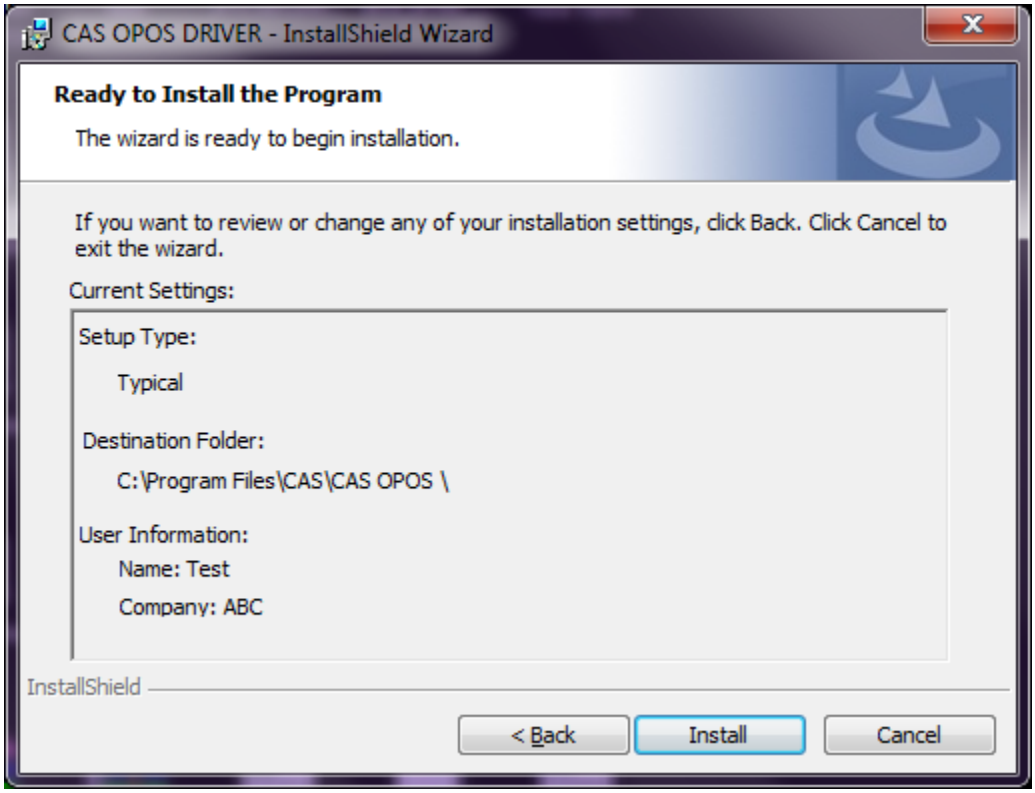
It'll automatically register and remove the temporary files during running of CAS setup.

In case of windows 8, 7 and Vista always use "**Run as Administrator**" option while installing the CAS OPOS Driver Setup.

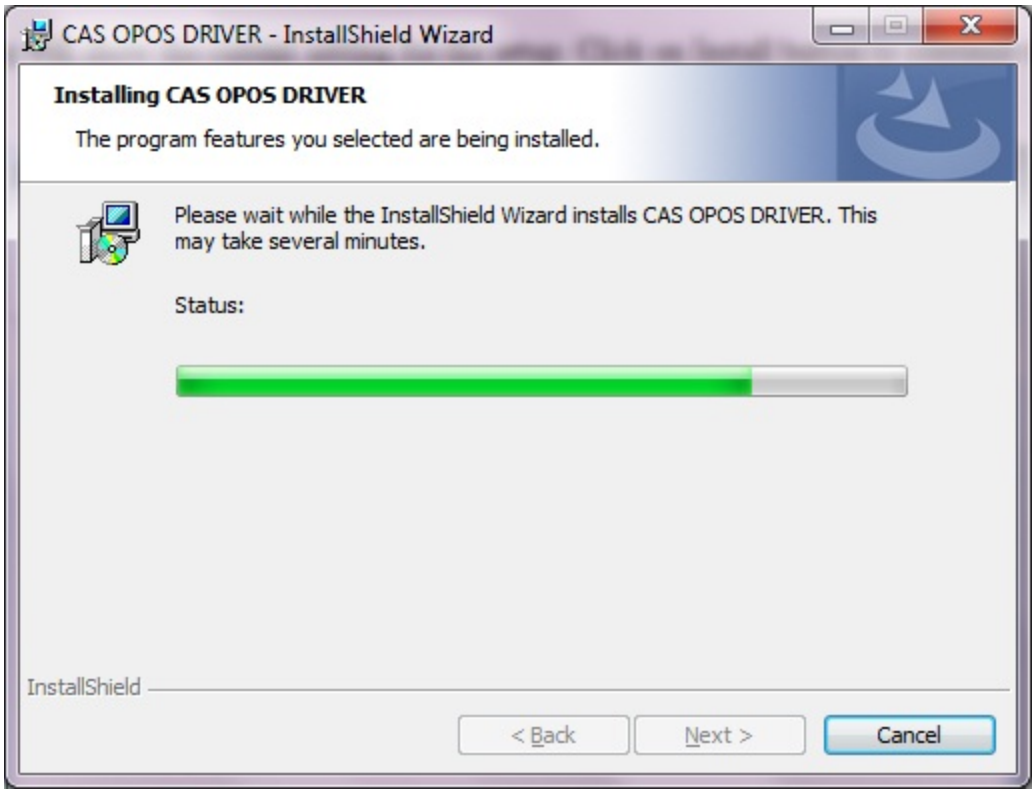

CAS OPOS Driver
5/2/2013 5:41 PM
Application
Open
Run as administrator
Troubleshoot compatibility
Scan with Kingsoft Antivirus
Scan with Microsoft Security Essentials...
Share with
Add to archive...
Add to "CAS OPOS Driver.rar"
Compress and email...
Compress to "CAS OPOS Driver.rar" and email
Pin to Taskbar
Pin to Start Menu
Restore previous versions
Send to
Cut
Copy
Create shortcut
Delete
Rename
Properties

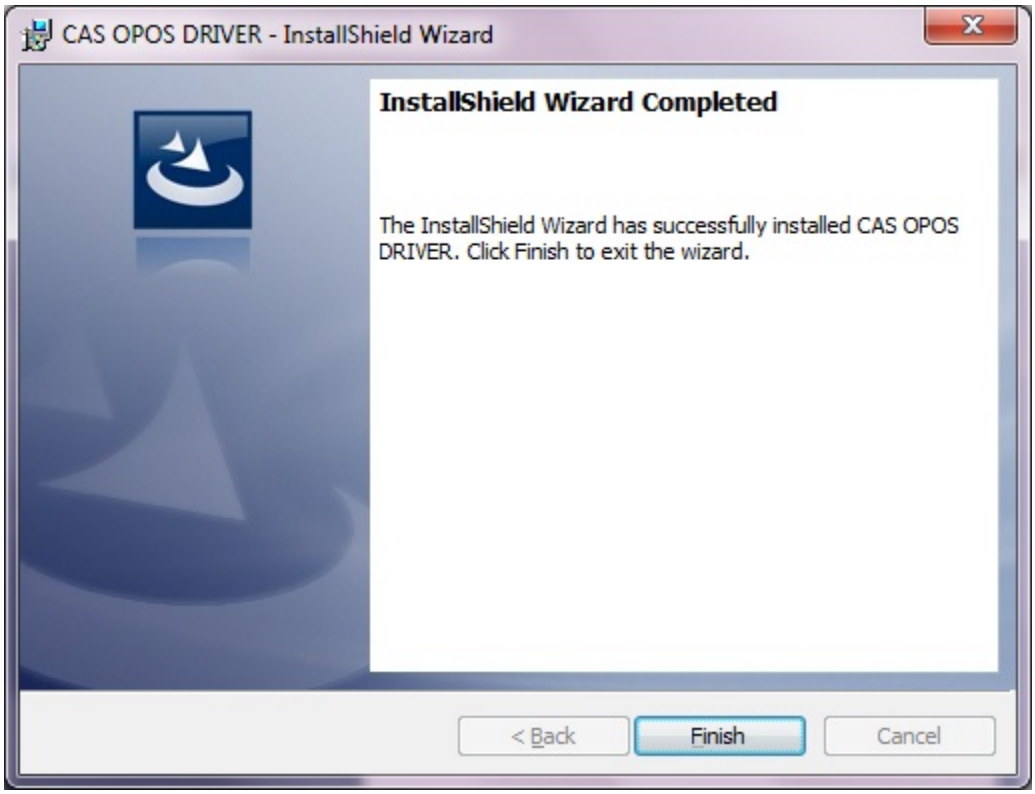

CAS OPOS DRIVER - InstallShield Wizard
Welcome to the InstallShield Wizard for CAS OPOS DRIVER
The InstallShield(R) Wizard will install CAS OPOS DRIVER on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel





Here a dialog will show the current setting for the setup. Click on Install button to continue the installation.


CAS OPOS DRIVER - InstallShield Wizard
Installing CAS OPOS DRIVER
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs CAS OPOS DRIVER. This may take several minutes.
Status:
InstallShield
< Back
Next >
Cancel


CAS OPOS DRIVER - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed CAS OPOS DRIVER. Click Finish to exit the wizard.
< Back
Finish
Cancel

Usage of CAS OPOS Driver Utility

Go to Start Menu, All Programs and click on CAS -> CAS OPOS DRIVER

Here we'll see two utilities i.e.

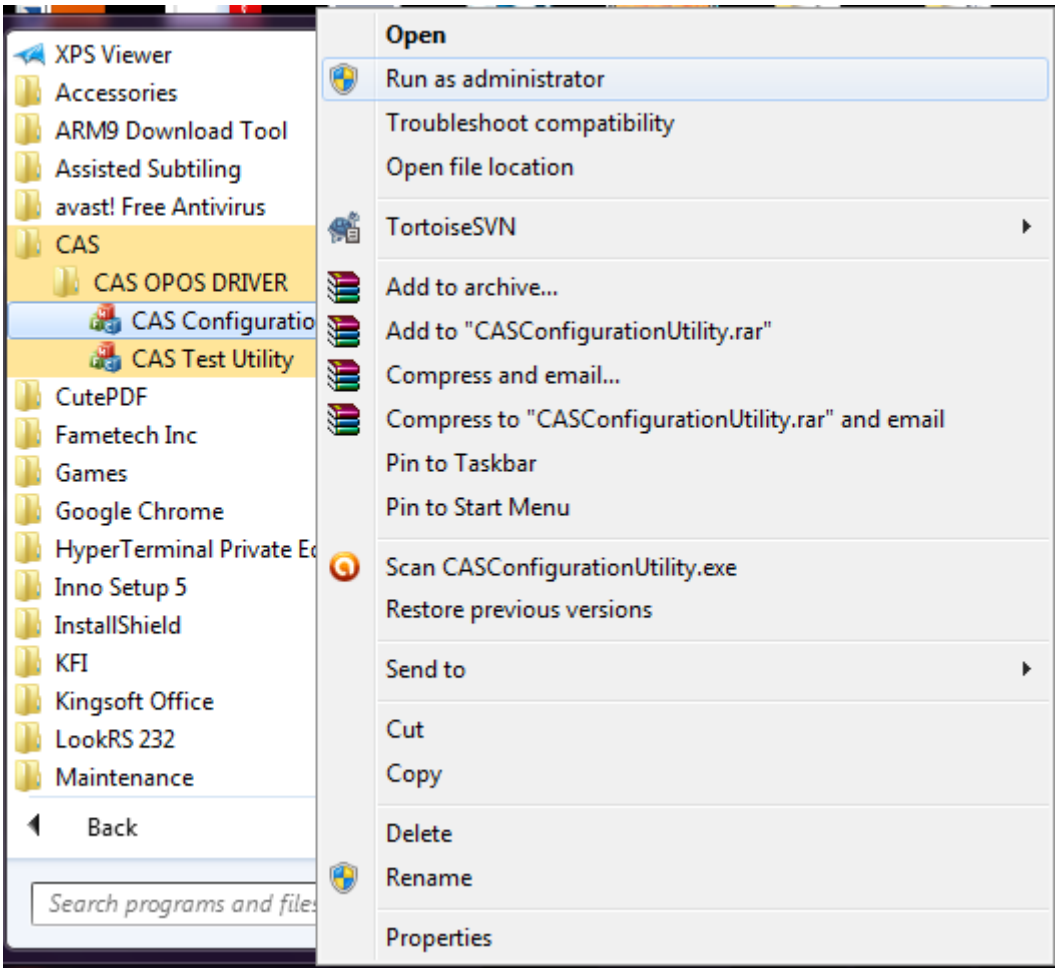
1) CAS Configuration Utility

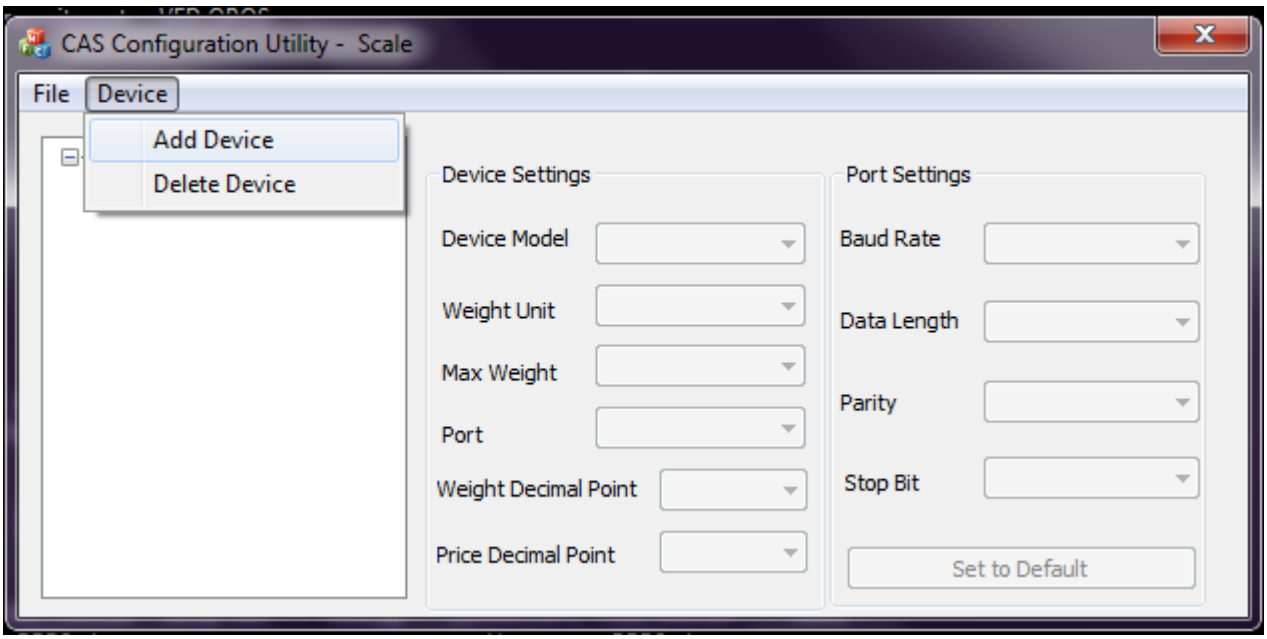
2) CAS Test Utility

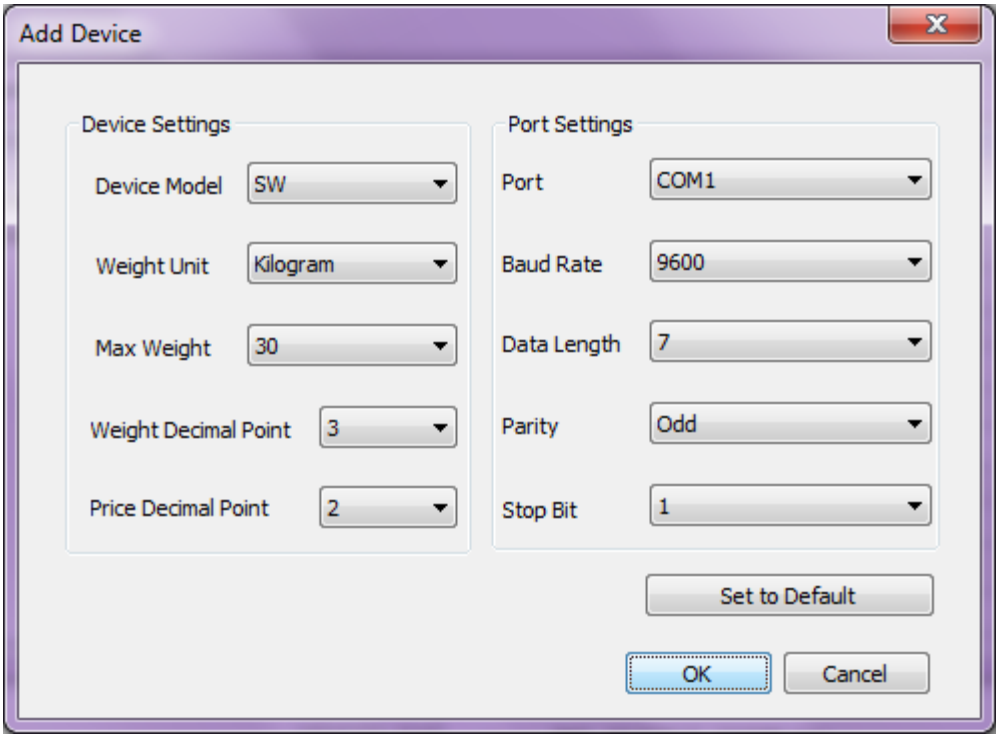
Now, run the CAS Configuration Utility.

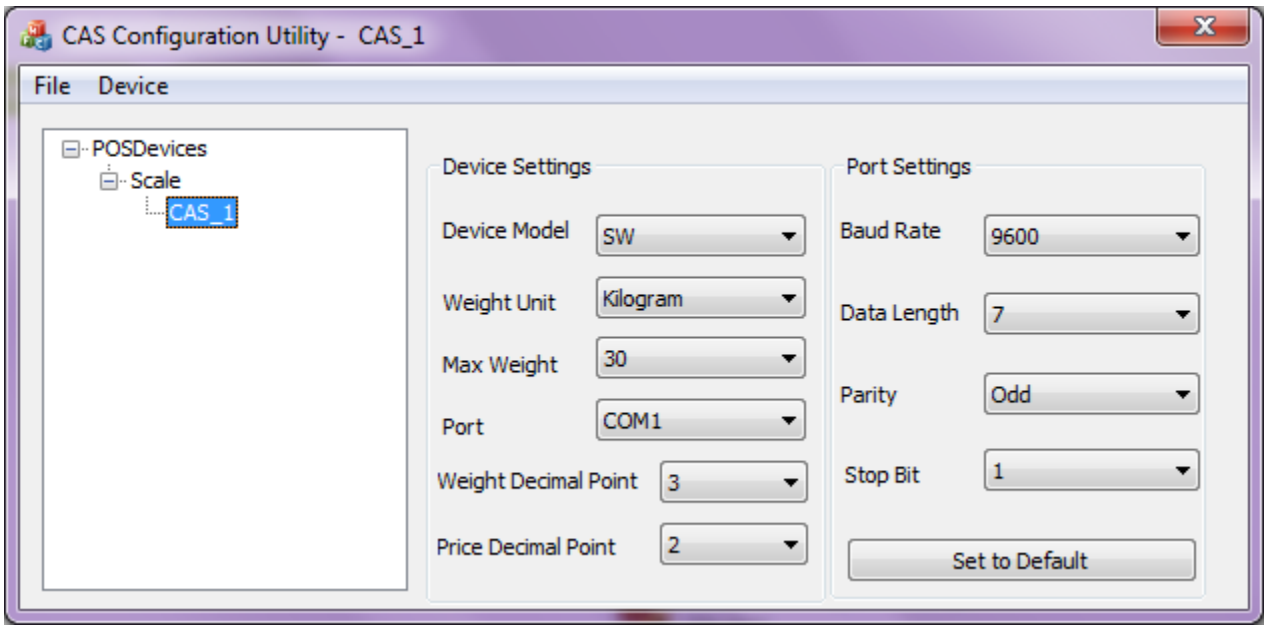
Always select the "**Run as administrator**" option by right clicking the application in case of **windows 8, 7 and Vista**.

This is used to add or delete the device CAS Scale. All these options can be found in device menu. These configuration settings can be edited too later on. Current Settings will be saved automatically.

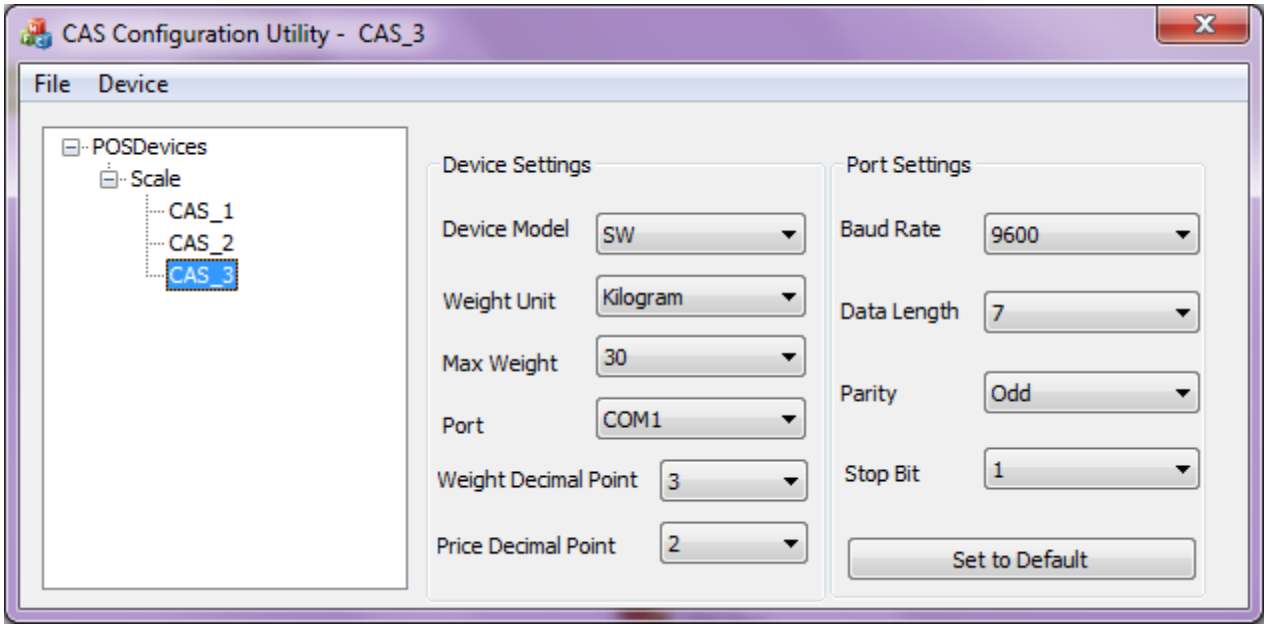



CAS Configuration Utility - Scale
File
Device
Add Device
Delete Device
Device Settings
Device Model
Weight Unit
Max Weight
Port
Weight Decimal Point
Price Decimal Point
Port Settings
Baud Rate
Data Length
Parity
Stop Bit
Set to Default

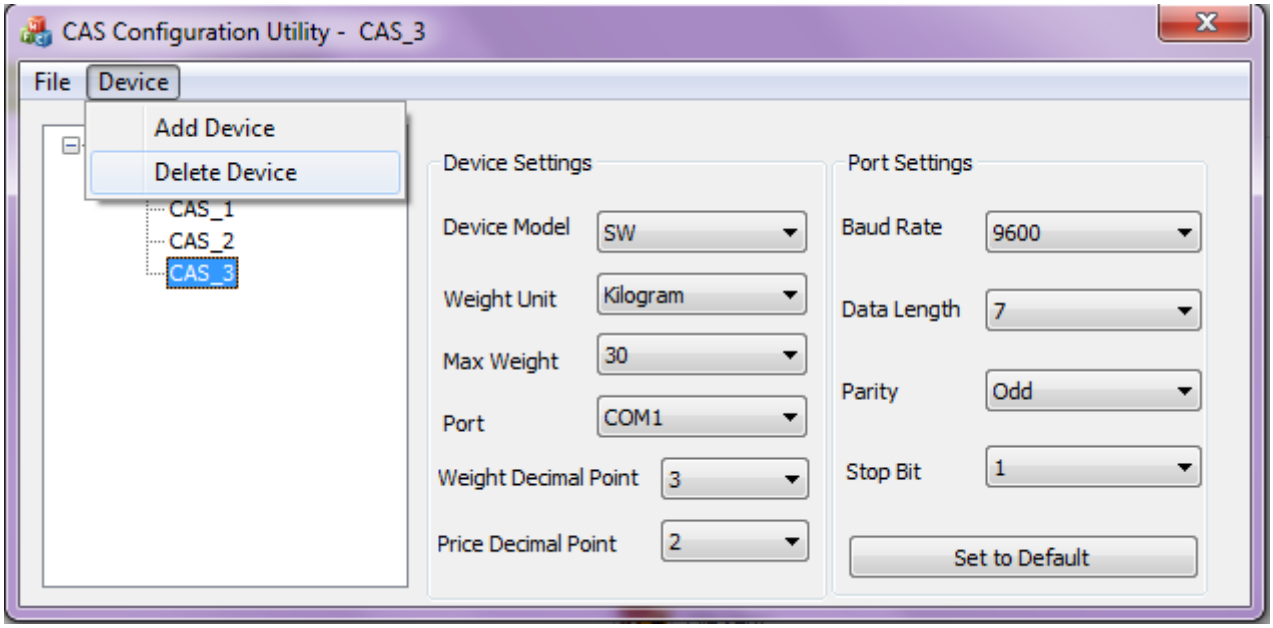

Add Device
Device Settings
Device Model
SW
Weight Unit
Kilogram
Max Weight
30
Weight Decimal Point
3
Price Decimal Point
2
Port Settings
Port
COM1
Baud Rate
9600
Data Length
7
Parity
Odd
Stop Bit
1
Set to Default
OK
Cancel



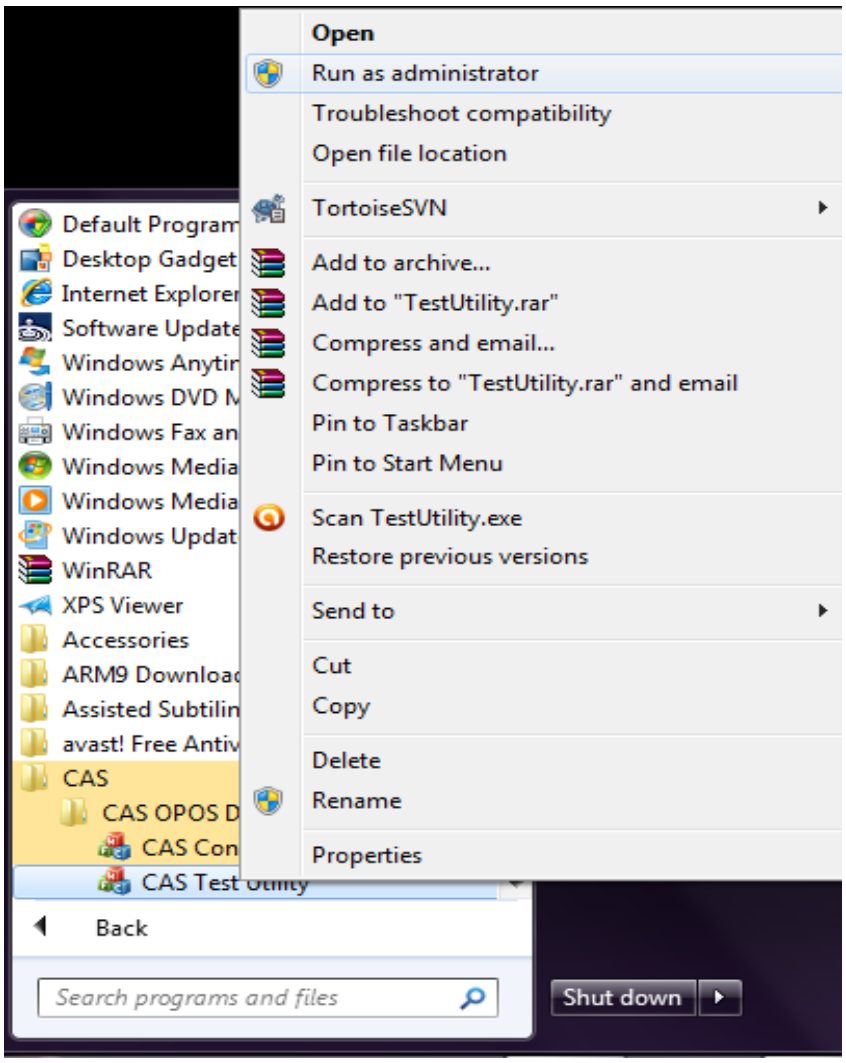
Similarly user can add a number of devices by repeating the above steps.



To delete the device select the device and click on delete device option under the Device menu.



Now run the CAS Test Utility using "**Run as Administrator**" option.



This will display a new dialog box with list of all the supported methods, capabilities and properties according to UPOS 1.13 standard.

How to use the logical device name

OPOS Controls require some data in the system registry in order for the Control Objects to locate the proper Service Object and initialize it for the device.

Service Object Root Registry Key

All OPOS service Object entries should be placed under the following main key;

HKEY_LOCAL_MACHINE\SOFTWARE\OLEforRetail\ServiceOPOS

Device Class Keys

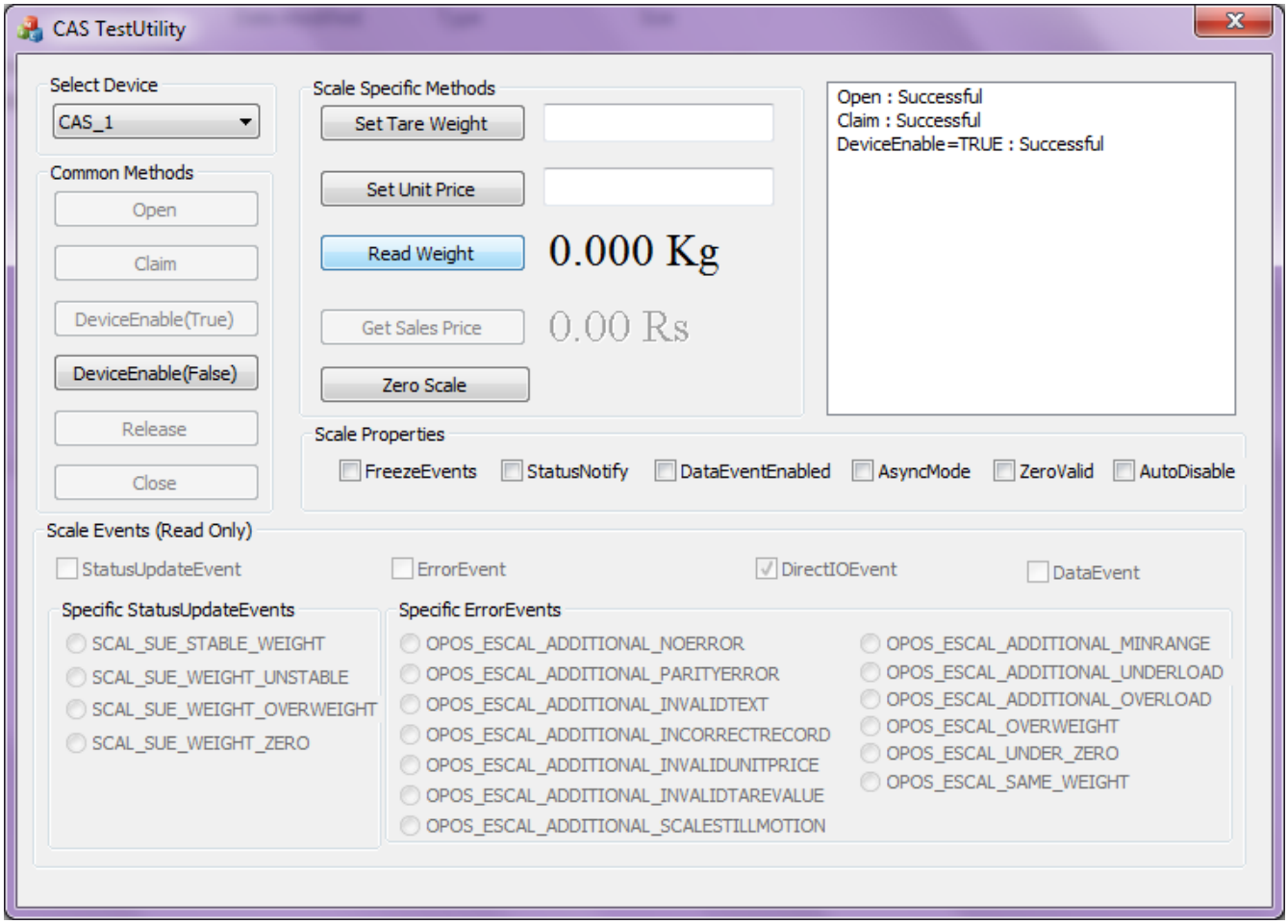
Each class has an identifying Device Class sub-key under the main OPOS key. The following key name has been established.

Key Name	Logical device name
Scale	CAS_1
	CAS_2
	. . .
	CAS_n

Test Utility reads the device name from the **Device Class Keys.** This device name is used in 'open' method as a parameter (ex, **open ("CAS_1"))**

Now select the device to communicate according to requirement from the drop down menu. To run this utility follow the OPOS standards and press the **Open -> Claim -> Device Enable**.

If everything remains successful for these refer the status messages (Returned Result Code) Display Text will be enabled with corresponding features.


CAS TestUtility
Select Device
CAS_1
Common Methods
Open
Claim
DeviceEnable(True)
DeviceEnable(False)
Release
Close
Scale Specific Methods
Set Tare Weight
Set Unit Price
Read Weight
0.000 Kg
Get Sales Price
0.00 Rs
Zero Scale
Open : Successful
Claim : Successful
DeviceEnable=TRUE : Successful
Scale Properties
FreezeEvents
StatusNotify
DataEventEnabled
AsyncMode
ZeroValid
AutoDisable
Scale Events (Read Only)
StatusUpdateEvent
ErrorEvent
DirectIOEvent
DataEvent
Specific StatusUpdateEvents
SCAL_SUE_STABLE_WEIGHT
SCAL_SUE_WEIGHT_UNSTABLE
SCAL_SUE_WEIGHT_OVERWEIGHT
SCAL_SUE_WEIGHT_ZERO
Specific ErrorEvents
OPOS_ESCAL_ADDITIONAL_NOERROR
OPOS_ESCAL_ADDITIONAL_PARITYERROR
OPOS_ESCAL_ADDITIONAL_INVALIDTEXT
OPOS_ESCAL_ADDITIONAL_INCORRECTRECORD
OPOS_ESCAL_ADDITIONAL_INVALIDUNITPRICE
OPOS_ESCAL_ADDITIONAL_INVALIDTAREVALUE
OPOS_ESCAL_ADDITIONAL_SCALESTILLMOTION
OPOS_ESCAL_ADDITIONAL_MINRANGE
OPOS_ESCAL_ADDITIONAL_UNDERLOAD
OPOS_ESCAL_ADDITIONAL_OVERLOAD
OPOS_ESCAL_OVERWEIGHT
OPOS_ESCAL_UNDER_ZERO
OPOS_ESCAL_SAME_WEIGHT

The following is the list of Properties, Methods and Events supported by CAS Scale device:

Properties		Type	Mutability	May Use After
Common Properties	AutoDisable	boolean	read-write	open
	CapCompareFirmwareVersion	boolean	read-only	open
	CapPowerReporting	int32	read-only	Not Supported
	CapStatisticsReporting	boolean	read-only	Not Supported
	CapUpdateFirmware	boolean	read-only	Not Supported
	CapUpdatreStatistics	boolean	read-only	Not Supported
	CheckHealthText	string	read-only	open
	Claimed	boolean	read-only	open
	DataCount	int32	read-only	open
	DataEventEnabled	boolean	read-write	open
	DeviceEnabled	boolean	read-write	open & claim
	FreezeEvents	boolean	read-write	open
	OutputID	int32	read-only	Not Supported
	PowerNotify	int32	read-write	open
	PowerState	int32	read-only	open
	State	int32	read-only	-
	DeviceControlDescription	string	read-only	-
	DeviceControlVersion	int32	read-only	-
	DeviceServiceDescription	string	read-only	open
	DeviceServiceVersion	int32	read-only	open
	PhysicalDeviceDescription	string	read-only	open
	PhysicalDeviceName	string	read-only	open
Specific Properties	CapDisplay	boolean	read-only	Not Supported
	CapDisplayText	boolean	read-only	Not Supported
	CapPriceCalculating	boolean	read-only	open
	CapStatusUpdate	boolean	read-only	open
	CapTareWeight	boolean	read-only	open
	CapZeroScale	boolean	read-only	open
	AsyncMode	boolean	read-write	open
	MaxDisplayTextChars	int32	read-only	Not Supported
	MaximumWeight	int32	read-only	open
	SalesPrice	currency	read-only	open, claim, & enable
	ScaleLiveWeight	int32	read-only	open
	StatusNotify	int32	read-write	open
	TareWeight	int32	read-write	open, claim, & enable
	UnitPrice	currency	read-write	open, claim, & enable
	WeightUnit	int32	read-only	open
	ZeroValid	boolean	read-write	open

Methods		Type	Mutability	May Use After
Common Methods	open	void		
	close	void		after open
	claim	void		after open
	release	void		after open, claim
	checkHealth	void		after open, claim, enable
	clearInput	void		after open, claim
	clearInputProperties	void		Not Supported
	clearOutput	void		Not Supported
	directIO	void		after open
	compareFirmwareVersion	void		Not Supported
	resetStatistics	void		Not Supported
	retrieveStatistics	void		Not Supported
	updateFirmware	void		Not Supported
	updateStatistics	void		Not Supported
Specific Methods	displayText	void		Not Supported
	readWeight	void		after open, claim, enable
	zeroScale	void		after open, claim, enable

Events		Type	Mutability	May Use After
DataEvent	Status:	int32	read-only	
DirectIOEvent	EventNumber:	int32	read-only	
	Data:	int32	read-write	
	Obj:	object	read-write	
ErrorEvent	ErrorCode:	int32	read-only	
	ErrorCodeExtended:	int32	read-only	
	ErrorLocus:	int32	read-only	
	ErrorResponse:	int32	read-write	
OutputCompleteEvent				Not Supported
StatusUpdateEvent	Status:	int32	read-only	

Result Code

A property containing the status of the most recent method or the most recently changed writable property

```
const LONG OPOS_SUCCESS         =   0;
const LONG OPOS_E_CLOSED        = 101;
const LONG OPOS_E_CLAIMED       = 102;
const LONG OPOS_E_NOTCLAIMED    = 103;
const LONG OPOS_E_NOSERVICE     = 104;
const LONG OPOS_E_DISABLED      = 105;
const LONG OPOS_E_ILLEGAL       = 106;
const LONG OPOS_E_NOHARDWARE    = 107;
const LONG OPOS_E_OFFLINE       = 108;
const LONG OPOS_E_NOEXIST       = 109;
const LONG OPOS_E_EXISTS        = 110;
const LONG OPOS_E_FAILURE       = 111;
const LONG OPOS_E_TIMEOUT       = 112;
const LONG OPOS_E_BUSY          = 113;
const LONG OPOS_E_EXTENDED      = 114;
const LONG OPOS_E_DEPRECATED    = 115;
```

The ResultCode OPOS_SUCCESS is assigned the value of zero. Non-Zero values indicate an error or warning.

ResultCodeExtended

A property containing the extended status of the most recent method or the most recently changed writable property. Value varies by **ResultCode** and by device class.

```
const LONG OPOS_ESCAL_OVERWEIGHT  = 201;
const LONG OPOS_ESCAL_UNDER_ZERO  = 202;
const LONG OPOS_ESCAL_SAME_WEIGHT = 203;
// Additional ResultCodeExtended
const LONG OPOS_ESCAL_ADDITIONAL_NOERROR = 204;
const LONG OPOS_ESCAL_ADDITIONAL_PARITYERROR = 205;
```

```
const LONG OPOS_ESCAL_ADDITIONAL_INCORRECTRECORD = 206;

const LONG OPOS_ESCAL_ADDITIONAL_INVALIDUNITPRICE = 207;

const LONG OPOS_ESCAL_ADDITIONAL_INVALIDTAREVALUE = 208;

const LONG OPOS_ESCAL_ADDITIONAL_INVALIDTEXT = 209;

const LONG OPOS_ESCAL_ADDITIONAL_SCALESTILLMOTION = 210;

const LONG OPOS_ESCAL_ADDITIONAL_MINRANGE = 211;

const LONG OPOS_ESCAL_ADDITIONAL_UNDERLOAD = 212;

const LONG OPOS_ESCAL_ADDITIONAL_OVERLOAD = 213;
```

State

A property containing the current state of the Control:

```
const LONG OPOS_S_CLOSED        = 1;

const LONG OPOS_S_IDLE          = 2;

const LONG OPOS_S_BUSY          = 3;

const LONG OPOS_S_ERROR         = 4;
```