

## 3-0029-EN-How Rounding is done in ShopFactory?

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### 1. Currency Rounding

Currency Rounding is rounding values to the nearest decimal place, for the number of decimal places as required for a particular currency. For example, almost all currencies should be rounded to the nearest 2 decimal places, except for the Japanese Yen, where amounts are whole numbers.

### 2. Product Price Rounding

Product Price Rounding is enabled when the "Round currencies to the nearest" dropdown listbox has a value other than blank. Valid values are selectable from the dropdown listbox. As at 27 Aug 2007 , it permits entering arbitrary rounding factors. However, only 0.01 is known to work well; other values may give strange results.

(as at 27 Aug 2007, post 7.31 Build 7234)

Rounding is applied to raw product prices, and to the result of any calculation that changes the product price such as product discounts and shop-wide discount by percentage. After rounding is applied, the result of the rounding becomes the actual product price.

Thereafter, no other amounts will be rounded - this includes taxes, shipping charges and basket discounts.

### 3. Basket Total Rounding

(pre-and-including 7.31 Build 7234)

Basket amounts such as total purchase price, tax and shipping charges had Product Price Rounding applied to them. Rounding to a certain factor is required by some payment systems and currencies. For example, [SaferPay](#) requires CHF currency amounts to be rounded to the nearest 0.05.

(as at 27 Aug 2007 , post 7.31 Build 7234)

Product Price Rounding is not applied to basket amounts such as total purchase price, tax and shipping charges.

In lieu of this functionality, to satisfy the [SaferPay](#) requirement, is a new setting to allow for the rounding of the basket total, independent of Product Price Rounding. Basket Total Rounding is only applied to the basket total, not tax or shipping charges.

#### 3.1 Setting

Two directives in alias.ini control the Basket Total Rounding function.

alias.ini is located in C:\Program Files\ShopFactory\7ShopFactory\Common Files

[RoundTotalEnabled](#)

Default is 1

Setting to 1 enables the Basket Total Rounding function. 0 disables the function.

### RoundTotalTable

Default is CHF,0.05;

Specifies the rounding factor for currencies. The format is currency\_iso1,rounding\_factor1;currency\_iso2,rounding\_factor2;etc For example CHF,0.05;GBP,0.10; specifies that CHF totals should be rounded to the nearest 0.05, whilst GBP totals should be rounded to the nearest 0.10.

#### 3.2 Example

If Basket Total Rounding is set to 0.05 for CHF, there is a product discount of 7.25%, and tax of 9.25%:

Product 1 (exc tax): CHF39.75

Discounted to: CHF36.87  $\leq 39.75 * 0.9275 = 36.868125$

Tax: CHF3.41  $\leq 36.87 * 0.0925 = 3.410475$

Total: CHF40.30  $\leq 36.87 + 3.41 = 40.28$