

PF1 - Create and Maintain Scales

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Objective and Scope

The purpose of this document is to explain how to create two types of scales in PF1 used in tariffs for automatic pricing of road shipment costs; tariff zones scales and relative or absolute weight related scales.

This operating procedure (OP) applies to Tariff zones scales and relative or absolute weight related scales used in condition records for road transport cost automatic calculation.

Definitions

Scales: Each scale is an independent piece of master data, you can use a scale in many different condition records according to your needs. You can also maintain the condition rates rates according to the assigned scales.

A scale consists of:

- A scale header, which includes general information about the scale (scale base type, scale type, rounding rule)
- An unlimited amount of scale levels, each of which is made up of a value (such as weight, volume, postal code or distance) and a calculation type.

Scale base type: The scale base type defines how the system interprets the scale. You can base a pricing element scale on one of the following criteria:

Examples of scale base types

- **Gross weight**
- **Net weight**
- Volume
- Distance
- Number of different means of transportation
- Time (travel time or wait time)
- **Tariff zone (destination postal code)**
- Destination region

Scale type: A scale type is an indicator that controls how the scale levels are defined. The scale type indicates whether the scale values that were specified depict the upper- or lower boundaries for the scale levels.

- From a certain value, such as weight, onward (base scale)
- Up to a certain value, such as weight (to-scale)
- For exactly one value, such as postal code (same-scale)

Process

Create a Weight related Scale (PF1)

STEP 1

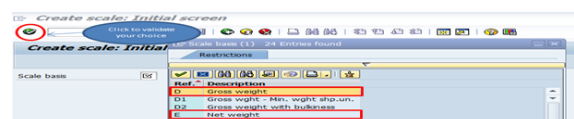
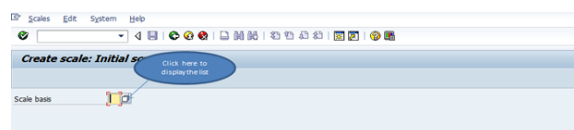
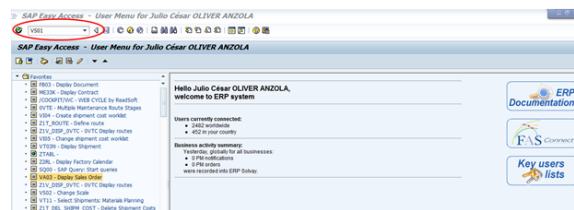
Enter the transaction VS01 in the tool bar and press enter.

The following window appears, you must choose the Scale basis. Some business work on net weight basis (SSP), other business takes the gross weight into account.

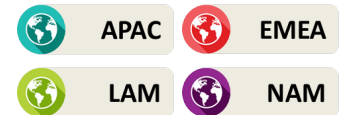
STEP 2

Select (D) for Gross weight or (E) for Net weight, then validate your choice or double click on your selected option.

Your selection appears in the initial screen



Scope



ERP



References

- [VS01 - Create a Tariff Zone related Scale \(PF1\)](#)
- [VS01 - Create a Weight related Scale \(PF1\)](#)
- [VS02 - Maintain Scales \(PF1\)](#)

Attachments

Tariff and Route Creation for Road in PF1

How to create and maintain tariff zones in T_76

Press ENTER or validate



STEP 3

The following window appears; if you click on each field, a square appears just beside. Open the selection list for each field clicking on it.

1.- Scale Type: The scales we use are up to a limit of weight.

EX: The haulier offers a price up to 27 TO and a different price up to 44 TO, choosing scale type (B) will allow us to fix these two weight limitations as the MAXIMALE weight for which the rate is applicable, thus the haulier will receive a price (Y) up to 27 TO and another price (W) up to 44 TO.

Choose (B) then press enter or click on

validate

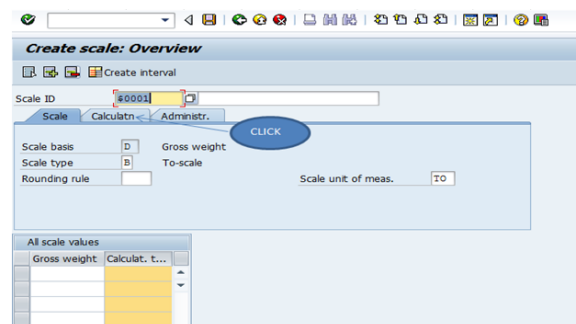
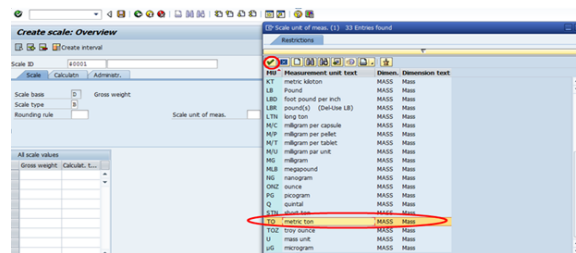
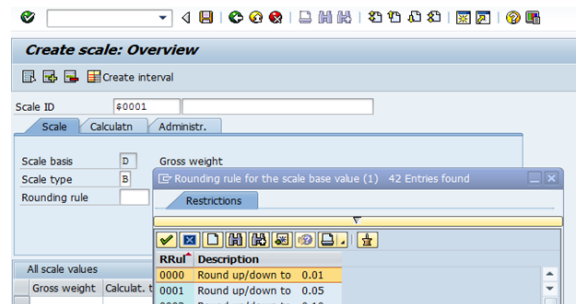
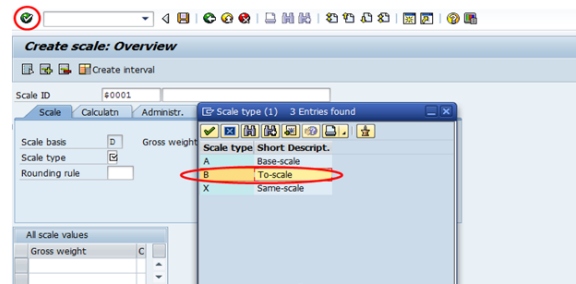
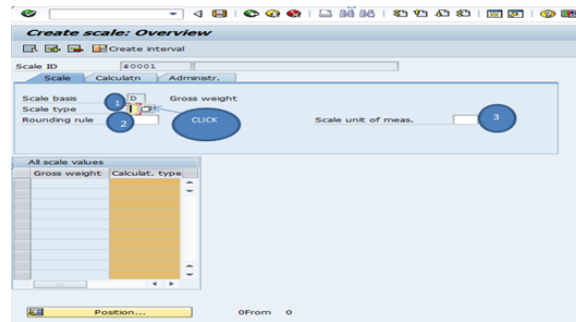
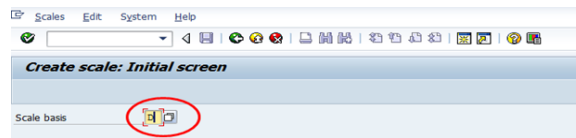
2.- Rounding rule : We do not use to enter a value in this field so it remains empty; but you can use a rounding rule for the scale base type to define that a value be rounded either up or down, for example. You can choose a suitable rounding rule from the selection list.

3.- Scale unit of meas: Choose an unit of measure from the selection list displayed, then double click on it, press enter or click on validate. We will choose (TO) for our example.

STEP 4

Once you have selected this, you must open the Calculation TAB.

The following screen appears.



Create scale: Overview

Create interval

Scale ID: #0001

Scale: Calculatn Administr.

Calculat. rule: 1

Min. configurable 2
 Max. config.

All scale values

Gross weight	Calculat. t...

1.- Enter a *Calculat. rule* (condition basis) on the *Calculatn* TAB page. You can choose gross weight (**D**). This rule defines the multiplication factor. You display the selection list in the same manner you did on the previous TAB.

2.- You can also configure a **MIN.** or **MAX** value, this is useful if you are using a relative calculation type. In our example the haulier wants to be paid a price (**Y**) up to 27 TO. In the hypothesis he is loading only 1 TO he will receive only $Y = 1TO \times Y$, this is a very low price for a complete truck, thus he wants to fix a minimum amount to be paid, this amount could be equal to **10Y** for instance; thus, even if he is loading less than **10 TO**, he will not be paid less than **10Y**.

It could be that purchasing negotiates a **MAX** amount to be paid to the haulier, we can enter a price up to **44TO** but we do not want to pay more than **35 TO** loading, it means that the system will take an amount $M = 35TO \times W$; thus, even if we fixed our scale up to **44TO**, we will not pay more than **M**.

Select *Min. Configurable* and/or *Max. config* if you need it clicking on the square beside each one. The selection of MIN, MAX or both depends only on what has been negotiated with the haulier. We will not select them for our example. Press Enter.

Two new fields appear on the screen, you can select a rounding rule but like on the previous TAB we use to leave this field empty.

Create scale: Overview

Create interval

Scale ID: #0001 4

Scale: Calculatn Administr.

Calculat. rule: D Gross weight Price unit: 1

Rounding rule:

Min. configurable
 Max. config.

All scale values

Gross weight	Calculat. ...

1.- Enter a price unit and a value in the *Price unit* field. Once again it depends on what has been negotiated with the haulier, normally the price will be given in TO for liquid and solid bulk, and FTL; for LTL the price is given for 100 Kg. This can change from one tender to the other, you need to consult the Tariff Data provided by purchasing.

Create scale: Overview

Create interval

Scale ID: #0001 FTL PEROXIDES 2015 27T/44T

Scale: Calculatn Administr.

Calculat. rule: D Gross weight Price unit: 1 TO

Rounding rule:

Min. configurable
 Max. config.


All scale values

Gross weight	Calculat. ...
27,000	A
44,000	A

2.- You can now enter the scales values; 27 TO and 44 TO in our example, but you can enter as many values as necessary; scales used for LTL tariffs use to have many values.

3.- Enter a **calculation type = A** for absolute value (the system takes exactly the same amount you maintain on your scale, (**Y**) up to 27TO in our example). If you select **calculation type = B** the system will make a calculation (number of **TO** loaded \times **Y**). Select **A** if you do not need any calculation or **B** if the tariffs provided by purchasing are **price/TON**. You can choose **A** or **B** from the selection list clicking on the square beside each field as we shown before or just type the letter on the field.

4.- Give a name to your scale: FTL Peroxides 2015 27T/44T for instance.

Save your scale 

[Link](#)

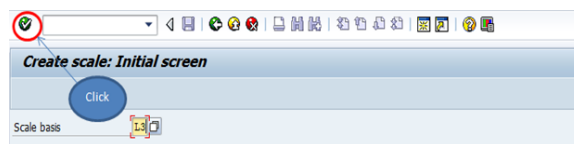
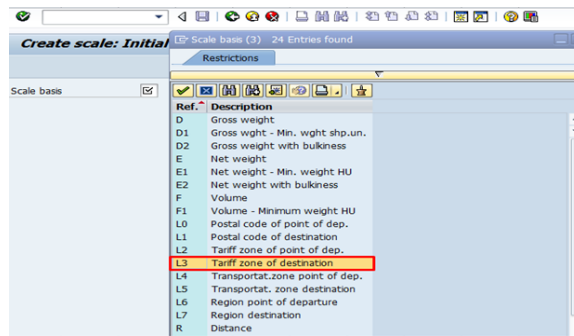
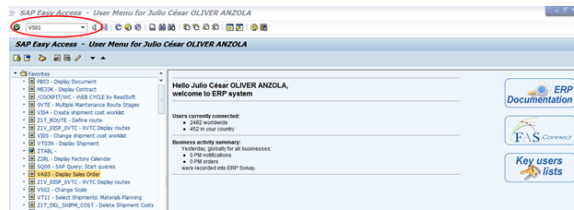
Create a Tariff Zone related Scale (PF1)

STEP 1

Enter transaction VS01 in the tool bar and press ENTER.

In the selection list for Scale basis choose **(L3)** Tariff zone of destination and press ENTER.

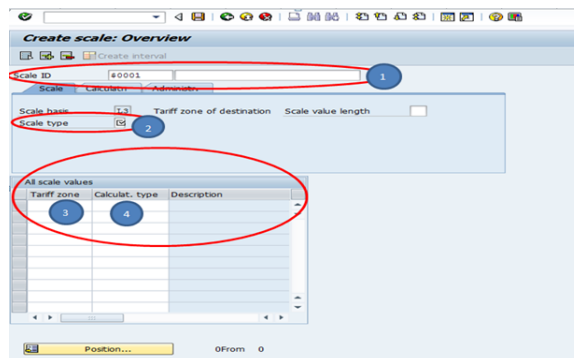
Press ENTER again in the initial screen or click on validate.



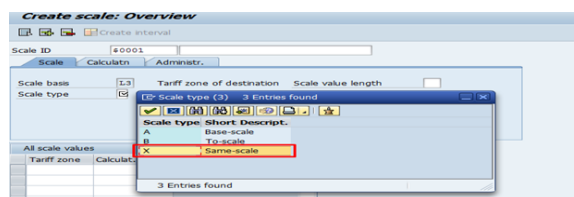
STEP 2

Complete the following fields on the Create scale: Overview screen.

1.- Give a name to your scale: FTL Peroxides Tariff Zone for instance.



2.- Display the selection list for Scale type clicking on the field, then on the square beside as explained before and choose Scale type = X (To-scale); the alphanumeric value registered will be read by the system exactly the same manner you will write it in the scale, then press ENTER.



3.- Enter the tariff zone of destination, the code of the tariff zone can have a different structure depending on BU specific requirements, here below some examples. Tariff zones are defined in a table using transaction T_76. **Ref. doc: How to create and maintain tariff zones in T_76**

DEFR35 = This is a tariff zone for a flow from Germany (**DE**), going to France (**FR**), 35 include all postal codes between 35000 and 35999 in France.

FR35 = The country of origin is not mandatory in the code, thus you can find codes that are just defined for the country and postal code of destination, this code include all postal codes in France between 35000 and 35999.


FR35091 = Sometimes the tariffs are given for a specific postal code (complete postal code), the system always read the more specific code first; thus you can register a transport tariff for **FR35091** = 100 euros and a different tariff for **FR35** = 75 euros for instance; if you make a transport to **FR35091** the system will identify this code first, thus it will take the correct tariff, if postal code of destination is different than 35091 but still in the range (35000 – 35999), the system will take the corresponding tariff to **FR35** = 75 euros.

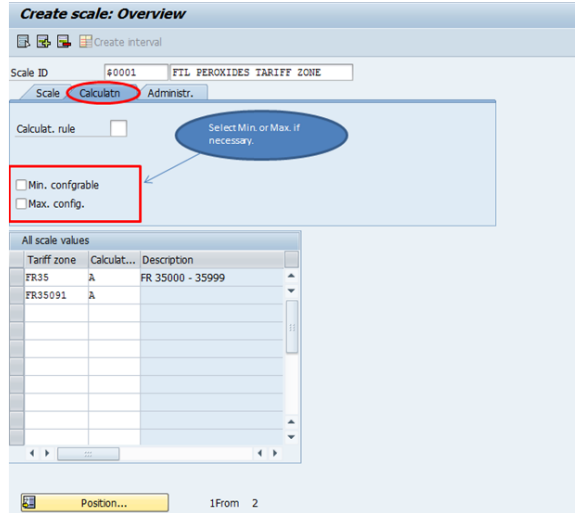
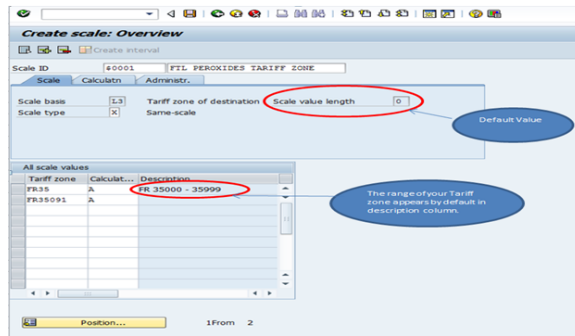
4.- Enter calculation type: This one must be the same of the calculation type in your weight related scale. We use calculation type (A) absolute for our example.

Once you fulfill this information press ENTER.

STEP 3

If you configured a MIN or MAX in your weight related scale, then you need to make the same selection in your Tariff zone related scale, you will find it in the calculation TAB.

Save your scale 



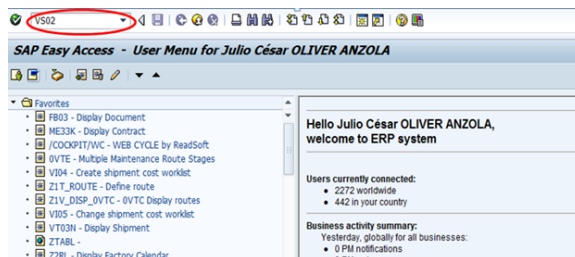
[Link](#)

Maintain Scales (PF1)

STEP 1

Enter transaction VS02 in the tool bar.

Press enter or click on validate 

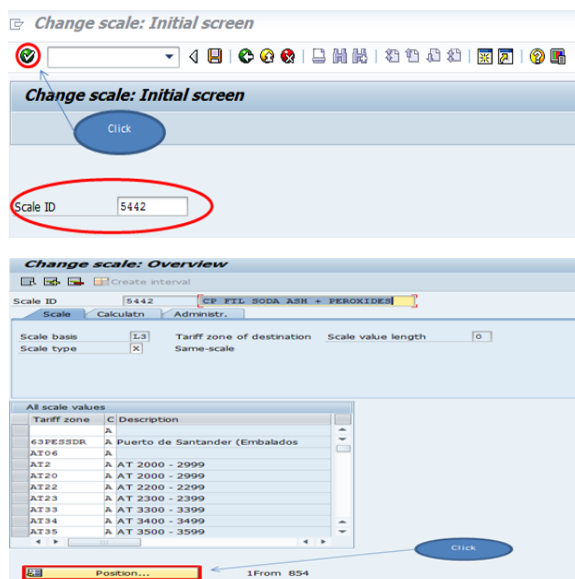


STEP 2


In the Change Scale initial screen, enter the ID number of the scale you want to modify, then press enter or click on validate.

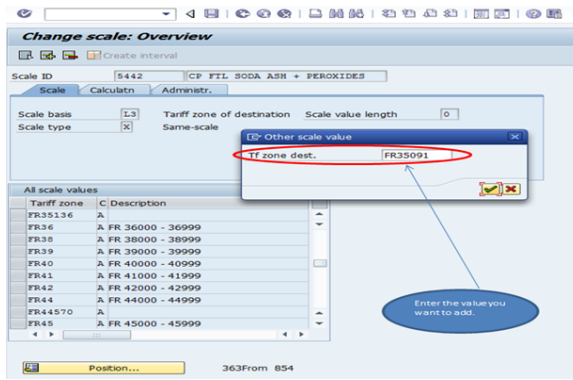
You can change all the parameters you selected while you created your scale. For a weight related scale, the most 'frequent changes' are adding a new range in your scale or modifying the upper limit of one of your existing ranges.

For a Tariff Zone related scale, the most 'frequent changes' are adding a new tariff zone, for this please assure you that the tariff zone you want to add is not already in your scale (you cannot duplicate values). For this, click on the yellow square 'position' in the Change scale: Overview screen.

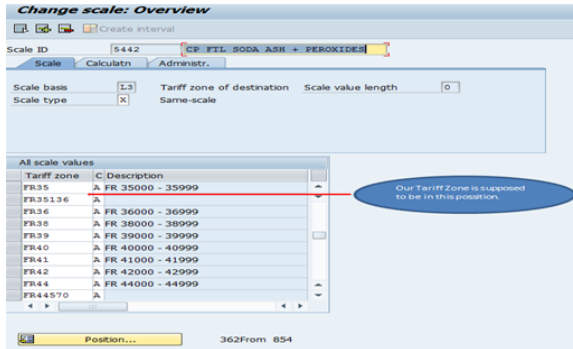


A popup window appears, enter the tariff zone you want to register, then press

ENTER or click on validate 





The system leads us to the position where our Tariff Zone is supposed to be.

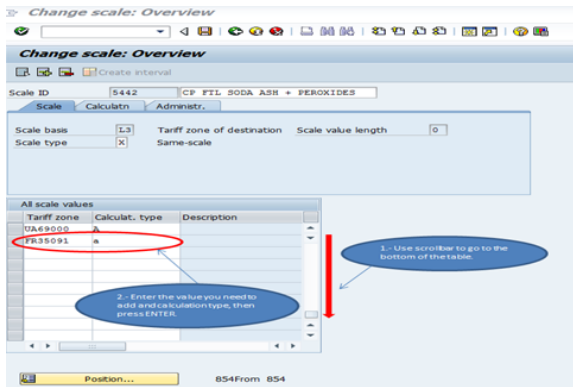


STEP 3

If the Tariff Zone you need to add is not in this position, you need to add it to the scale

 Scale 5442 is in use – Do not save changes if not necessary.

You can now save your changes. 



[Link](#)