3.12. Scale settings

Define the scale under a weighing room,dock or a packing station. One scale can only belong to a single weighing room/dock/packing station.

At the scale level the following settings can be defined:

Active
Set whether the weighing room is active or not.

Scale definitions
Define the scale on the Scale definitions field.

If the scale is connected without the ScaleComm service, define it with the one of the following formulas:

- Direct connection: com:/ /Port?Baudrate,Databits,Parity,Stopbits
  Example:

```
com://COM3?9600,8,N,1
```

- Local network: tcp:/ /IP address
  Example:

```
tcp://192.168.1.5:4001
```

If the scale is connected by using the ScaleComm service, tick the *Use as a service* checkbox and define the scale with the following formula:

- http:/ /URL of the server where the service runs/scale code (OSE)/communication parameters
  Example:

```
http://192.168.1.2:9991/SCL01/com://COM3?9600,8,N,1
```

Uom
Select the unit of measurement of the scale from the Uom dropdown list.

Minimum weight
Enter the minimum weigh of the scale in the Minimum weigh field.

Maximum weight
Enter the maximum weigh of the scale in the Maximum weigh field.

Accuracy
Enter the accuracy of the scale to the Accuracy field.
Example: If the number of decimals is 2 – Accuracy: 0.01

Scale commands

Define the scale commands. Select the command type. The following command types are supported:

- Set tare
- Set zero
- Get weight
- Weight return

The ‘Zero return’ and the ‘Tare return’ commands are not supported yet but are reserved for future use.

Add the description to the *Description* field and the command to the *Command format* field.

Command format
Please refer to the user manual of the scale to see the command.

The syntax of the Weight return result string should be a regular expression.

Example:
Weight return string from the scale manual:

```
<LF><p>w1w2w3w4w5w6<dp>w7w8u1u2<CR><LF>H1H2H3<CR><ETX>
```

Weight return string defined for the scale on the Organizational Structure:

```
\x0a *(?'weight'.+)(?'uom'..)\x0d\x0a.+\x0d\x03
```

3.12.1. Defining multiple scales through one port

Produmex WMS Organizational Structure
First create a ‘scale’ type element in the Organizational Structure of Produmex WMS for the port. Add a unique code and name. Example:

```
PORT, Port for scale
```

Define the port on the Scale definitions field with one of the following formulas:

- Direct connection: com:/ /Port?Baudrate,Databits,Parity,Stopbits
  Example:

  ```
  com://COM3?9600,8,N,1
  ```

- Local network: tcp:/ /IP address
  Example:

  ```
  tcp://192.168.1.5:4001
  ```

Do not check the ‘Use as service’ checkbox.

The ScaleComm service will establish the connection to the port based on the configuration file of the ScaleComm service.

The scales connected through the port will be identified based on the sent command.

Select the command type and add the scale codes and the scale command to the Command format field using the following formula: *scale code;command;scale code;command*

Example:
Get weight command:

```
scale01;S6R$;scale02;S7R$
```

Where:

- 'scale01' = scale code of the first scale
- 'S6R$'= get weight command of the first scale
- 'scale02' = scale code of the second scale
- 'S7R$' = get weight command of the second scale

Weight Return command:

```
(?'weight'.+)\x0d\x0a;(?'weight'.+)\x0d\x0a
```

The order and the number of the scale commands must be the same as in the 'Get weight command'.

ScaleComm service
Open the configuration file of the ScaleComm Service.

Add the code of the port defined in the Organizational Structure as the value for ScalesCodes.
Example:

```
 <add key="ScalesCodes" value="PORT" />
```

Make sure that the 'Skip Polling' option is set to 'False' and adjust the 'Polling Interval' if needed.

Scale weigh result
Open the Scale Weigh Result user table via the following path: Tools> Default forms. Add the scale codes defined on the Command format field as the 'Code'.

When the ScaleComm Service runs, it will add the weight to the 'Weigh' field of the matching scale.