User manual

QTA Access Point Configurator
Version 1.0.1.3

QTA TRACER SYSTEM®

Version 1.0

C€ 0402

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1   Introduction

The QTA Access Point Configurator manages the configuration of the QTA Access Point, configuration of parameters for the bar code scanner COM port, the QTA Tracer COM port and the QTA Tracer Settings.

1.1   Background

This user manual is part of the QTA Tracer System version 1.0

1.2   Purpose

The purpose of this document is to give the system administrator knowledge how to configure QTA Tracer and QTA Access Point.

1.3   Audience

The audience of this document is system administrators of the QTA Tracer System.

1.4   System requirements

The following accessories is needed to use the QTA Tracer System

Accessory	Description
PC with Windows 7	Note book, Lap Top or stationary PC, 2Mb RAM, Physical storage > 100Mb Delivered by distributor or by the local IT department on the hospital.
Bluetooth 4.0 Single Mode USB Dongle	Delivered by distributor
Bar code reader reading 2D bar codes	Delivered by distributor
QTA Tracer	Delivered by distributor

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1.6   System overview

The QTA Tracer system requires a PC with the QTA Tracer System software installed, a Bluetooth USB dongle, a Barcode reader and QTA Tracers.
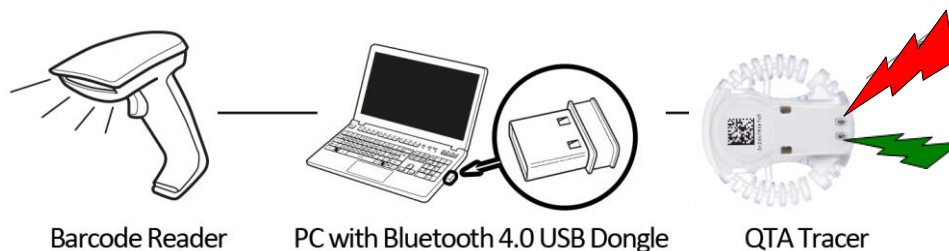Figure 1 displays the QTA Tracer system.

Barcode Reader   PC with Bluetooth 4.0 USB Dongle   QTA Tracer

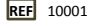Figure 1. The QTA Tracer System

1.7   System function

1.7.1   QTA Tracer

The QTA Tracer is placed on a blood bag to measure temperatures and calculate if the blood is valid according to specific configuration parameters that is defined by each blood center.

There is no specific rule when to attach the QTA Tracer to the blood bag, because it depends on the unique process that is used on each blood center.

The QTA Tracer has a motion detector that activates the tracer. Tracer starts showing the status of the blood (red or green diode) and communication mode is enabled.

The QTA Tracer is labeled with the following labels:

Label	Description
✓	✓ - Blood is ok.
✗	✗ - Blood is not ok.
3c2db784e765	This is a bar code including the Bluetooth address for the QTA Tracer. The Bluetooth address is the unique identifier (serial number) for the QTA tracer and the address is also printed in plaintext below the bar code on the QTA Tracer. Use this unique id when reporting a claim. Scan this bar code using QTA Access Point to connect to a QTA Tracer.
🗑	Waste Electrical and Electronic Equipment (WEEE) Statement. Return product to distributor.
📖	Read the manual before use.
✷	QTA Tracer includes Bluetooth technology.
REF 10001	QTA Tracer product number.
CE 0402	CE Certified by notified body 0402.

1.7.2   QTA Access Point

The QTA Access Point is a PC installed with the QTA Tracer System and a Bluetooth USB Dongle inserted in the USB port.

To start or readout stored information from the QTA Tracer the QTA Access Point is needed. QTA Access Point is used to:

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- Start a new QTA Tracer logging
- Readout status and temperatures from QTA Tracer
- Release blood from quarantine
- Readout stored information on the QTA Tracer

To configure the QTA Tracer System a QTA Access Point Configurator is needed. The QTA Access Point Configurator stores configuration parameters in the database that is used by the QTA Access Point.
QTA Access Point Configurator is managed by the QTA Tracer System distributor or the local system manager.

1.8   How the QTA Tracer defines the blood status

The blood status is shown with the following label symbols in both QTA Tracer and QTA Access Point:

- ✔ - Blood is ok
- ✖ - Blood is not ok
- (   )no light- Blood is not ok, the QTA Tracer is not operating as it should

The blood status is calculated by the QTA Tracer and is marked as ✖ - Blood is not ok, if one of following conditions is true:

- If the blood has been exposed to too low, or too high temperature
- If the blood has been exposed to different temperature ranges for too long. The temperature ranges are configured in the database.
- If both of the following start logging delays has not been reached:
    - Start time delay – Wait for a specific time, specified in the configuration
    - Start at temperature – Wait for a specific temperature is reached, specified in the configuration
- If the blood not has been released from quarantine
- If an error occur in the QTA Tracer.

2 Installation

The installation process of the QTA Tracer system is described in the installation instructions. The installation is performed by personnel from distributor or Tridentify. The installation can be done by a local system manager that has gone through a training program how to set up the QTA Tracer system.

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3   Usage
Start up the QTA Access Point Configurator.

3.1   Set up COM ports
To set up com ports for barcode reader and QTA Tracer port, follow these steps:
1.   Select the "Ports" tab
2.   Select values from the drop down lists as shown below in Figure 2:
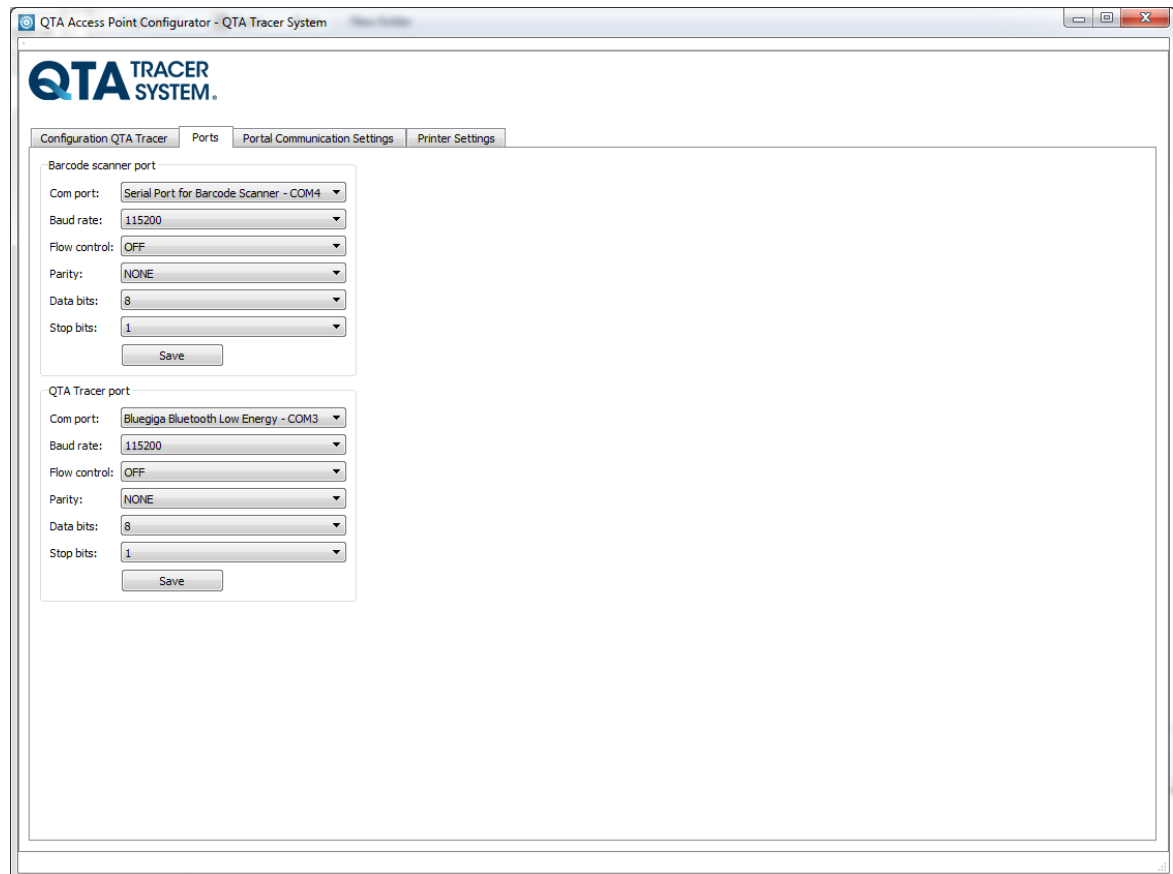

Figure 2 Configure ports

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3.2 Configuration QTA Tracer

To set up QTA Tracer settings, follow these steps:

1. Select the "Configuration QTA Tracer" tab
2. Press the "Show all" button
3. Choose what ISBT class you want to configure
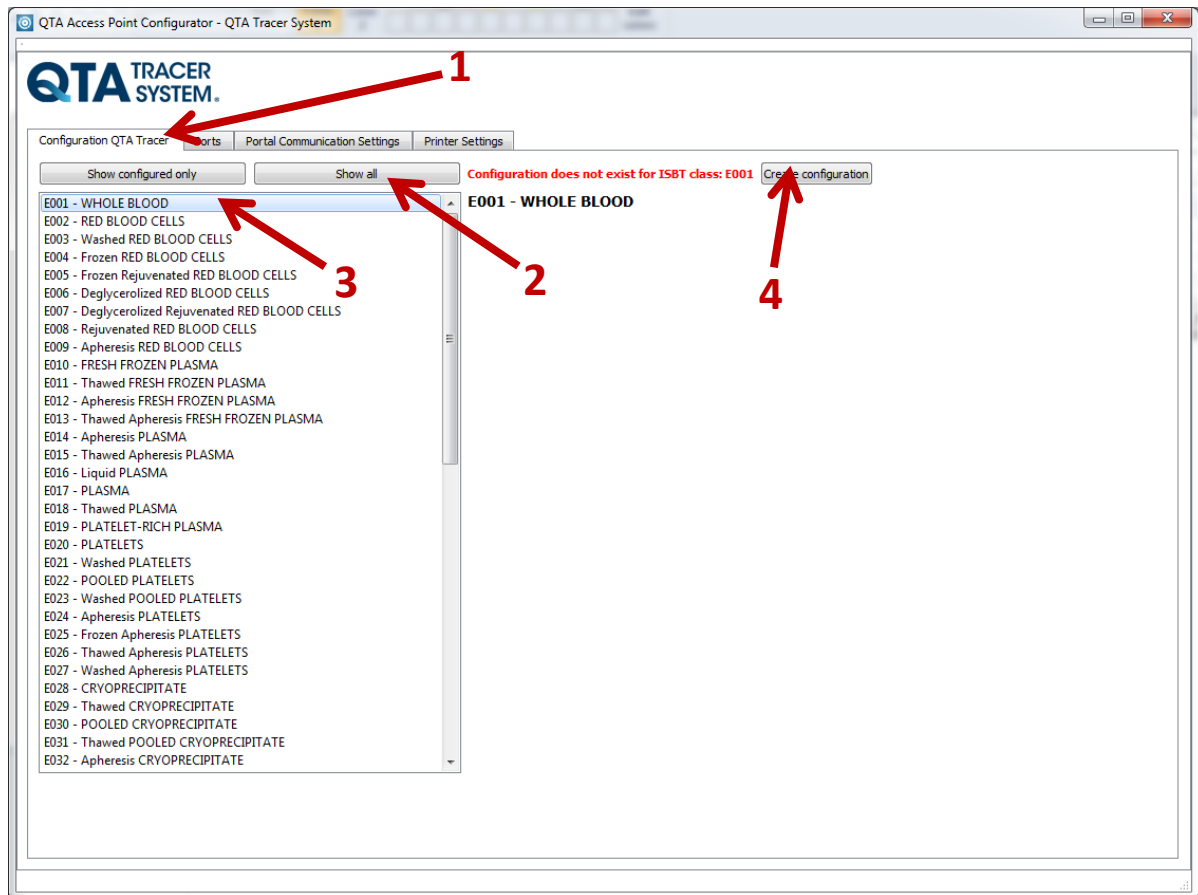4. Press "Create Configuration" button

Figure 3a Configure QTA Tracer

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5. Mark and edit the fields you want to configure (fields explained below) and press "Save"
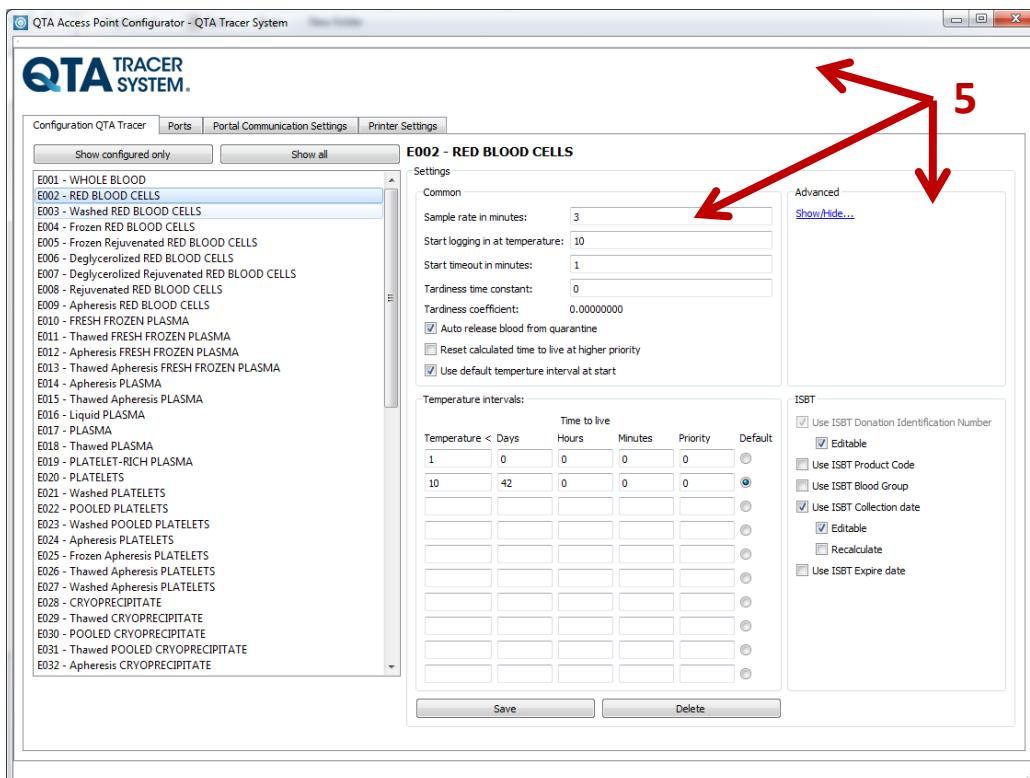

Figure 3b Configure QTA Tracer Settings

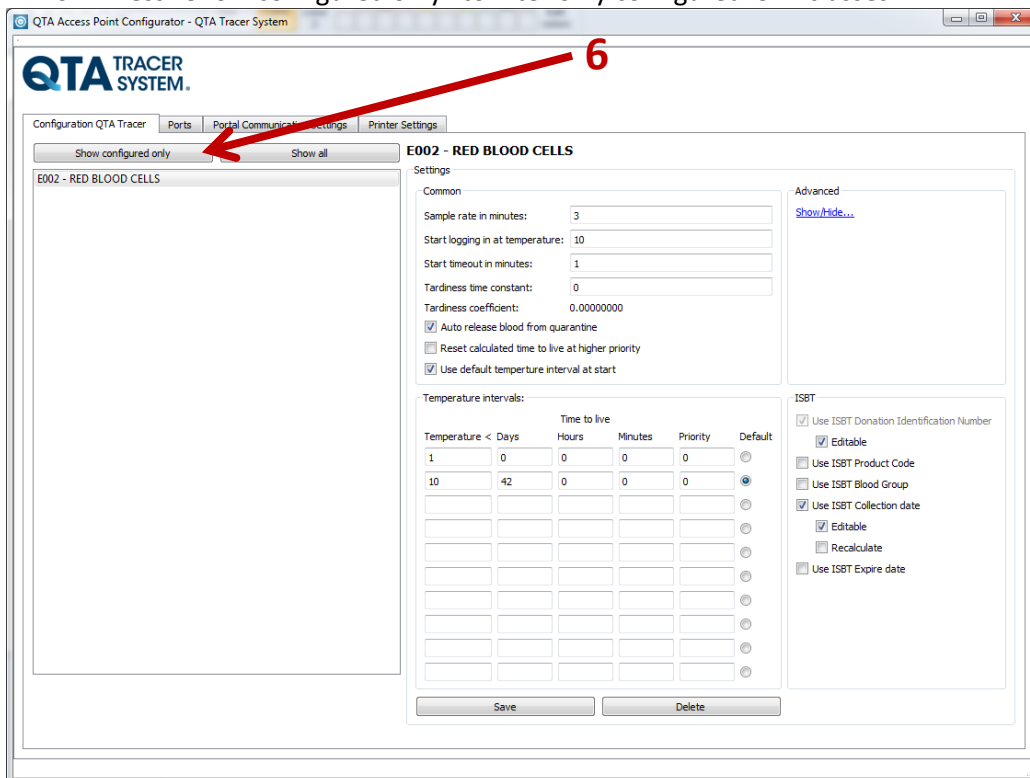6. Press "Show configured only" to filter only configured ISBT classes

Figure 3c Configure QTA Tracer Settings – "Priority" and "Show configured only"

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3.2.1   Common

3.2.1.1   Sample rate in minutes:

The sample rate is the interval time that the QTA Tracer will wait between each
temperature measurement.
Range: 3 – 60 minutes

3.2.1.2   Start logging at temperature:

This parameter makes it possible to set a temperature that need to be reached before
the QTA Tracer starts recalculating expiration date (temperature is logged, starting at
the initiation, but time remaining is not adjusted until temperature has dropped below
or equal to this value. Tracer flashes red until this condition is met). **Note:** This
parameter is overridden if "Start timeout in minutes" is true.
Range: -39 ˚C - +80˚C

3.2.1.3   Start timeout in minutes:

This parameter makes it possible to set a time that need to be reached before the QTA
Tracer starts recalculating expiration date (temperature is logged, starting at the
initiation, but time remaining is not adjusted until timeout is reached. Tracer flashes red
until this condition is met). **Note:** This parameter is overridden if "Start logging in
temperature below" is true.

3.2.1.4   Tardiness time constant & Tardiness coefficient

These two parameters make it possible to add tardiness in the temperature
measurement. This is convenient in countries that have the regulatory requirement to
measure the temperature inside a bag instead of the environmental temperature.
Setting tardiness time constant to "0" means no tardiness is used.
Tardiness coefficient is calculated by QTA Configurator using parameters tardiness time
constant and sample rate. Changing tardiness time constant or sample rate will result in
a new recalculated tardiness coefficient.
To find out what tardiness time constant to use; Place a QTA Tracer without tardiness
time constant inside a blood bag filled with water and another QTA Tracer attached to
the blood bag with for example tardiness time constant set to "1500". Put the blood bag
into the refrigerator. After the blood bag is in the right temperature, take it out from the
refrigerator. Wait until the blood bag has the same temperature as the environmental
temperature and then readout the temperatures from the QTA Tracer's.
Examine the temperature curves to see if they comply with each other.
Warning: Using these parameters will affect the temperature measurement

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3.2.1.5 Auto release blood from quarantine

Checked – The blood will automatically be released from quarantine when a new log is initiated on the QTA Tracer.

Not Checked – The blood will not be release from quarantine when a new log is initiated on the QTA Tracer. The user needs to do this manually using QTA Access Point.

Default: Checked

3.2.1.6 Reset calculated time to live at higher priority

If checked and measured temperature in the QTA Tracer is within a temperature interval with higher priority than the last temperature then a reset of the time to live i.e. shelf life will be performed and the tracer start all over again and calculate the shelf life according to the new temperature interval with the higher priority.

Default: Unchecked

3.2.1.7 Use default temperature interval at start

If checked then the selected default temperature interval will be used to calculate remaining shelf life from the time of initiating a new log until one of the settings "Start logging at temperature" or "Start timeout in minutes" is reached.

Default: Unchecked

3.2.2   Advanced
Click "Show/Hide…" link to show or hide advanced settings.
Advanced settings are technical parameters for QTA Tracer.

3.2.2.1   *Min battery level in %:*
This parameter is used to set the minimum battery level in % before QTA Access Point notifies the user that it is time to order a new QTA Tracer because of low battery level.
Range: 0 – 100 %
Default: 30 %

3.2.2.2   *Motion threshold:*
This parameter is used to set the motion threshold level. A higher value on this parameter will make the QTA Tracer less sensitive to motions.
Range: 0-255
Default: 32

3.2.2.3   *Min advertising temperature limit:*
This parameter is used to set the minimum temperature limit in degrees Celsius when the radio chip should send out advertisements.

Default: 1 ˚C

3.2.2.4   *Min advertising volt limit in%:*
This parameter is used to set the minimum volt limit in % when the radio chip should send out advertisements.

Default: 30 %

3.2.2.5   *Min always advertising temp limit:*
This parameter is used to set the minimum temperature limit in Celsius degrees when the radio chip should send out advertisements. Temperature above this setting will always cause the radio chip to send out advertising packages. This setting overrides "Min advertising temperature limit" and "Min advertising volt limit in %".

Default: 15 ˚C

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3.2.3 Temperature intervals:

The temperature intervals or ranges that are used by QTA Tracer in the calculation of the time that is left for the blood bag validity.

Temperature range: -39 ˚C - 80 ˚C
Range: 0 – 100 days (2400 hours)

Add your intervals for the specific ISBT class by editing the table. In the column for "Temperature <" you insert a temperature which defines the upper limit of that range. In the columns for "Days", "Hours" and "Minutes" you define the products shelf life for the temperature interval.
Example:

Temperature <	Days	Time to live Hours	Minutes	Priority	Default
1	0	0	0	0	○
10	42	0	0	0	●
24	1	0	0	0	○
30	4	0	0	0	○
					○

This configuration means that:
- at temperatures below 1 ˚C (0 ˚C and below) the product has 0 hours of life
- at temperatures between 1 and 9 ˚C the product has 42 days of life (1008 hours)
- at temperatures between 10 and 23 ˚C the product has 1 day of life (24 hours)
- at temperatures between 24 and 29 ˚C the product has 4 hours of life
- at temperatures of 30 ˚C and above the product has 0 hours of life.

If QTA Tracer measures a temperature over the configured temperature intervals it will use 0 hours in the value for hours to live.

3.2.3.1 Default

If checkbox "Use default temperature interval at start" or if checkbox "Recalculate" under ISBT → Collection Date is checked then the selected default temperature interval will be used to calculate remaining shelf life until one of the settings "Start logging at temperature" or "Start timeout in minutes" is reached.

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3.2.3.2 Priority:

Set priority if one or more of the temperature intervals should have priority over other intervals.   Example (as shown below in figure below):

Let's assume that once the blood product has been exposed to temperatures of 10˚C or above the blood should be transfused within 10 hours, otherwise discarded. Therefore priority for interval 10-23˚C is set to "1" – a higher priority than for the interval 1-9˚C. If temperature drops below 10˚C again the tracer still recalculates shelf life according to the settings for the interval 10-23˚C. However, if the temperature rises above 29˚C or drops below 1˚C the tracer starts recalculating shelf life according to the settings for those intervals – since priority for these intervals are higher, set to "2"

Temperature intervals:

Temperature <	Days	Time to live Hours	Minutes	Priority	Default
1	0	0	0	2	○
10	42	0	0	0	◉
24	1	0	0	1	○
30	4	0	0	2	○

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3.2.4   ISBT
Default setting includes five fields:

3.2.4.1   Donation Identification Number
Donation identification number is always checked.
QTA Tracer needs to be connected with some kind of id from the product.

The Donation Identification Number could be made editable – allowing Donation number to be structured in other ways than the default format. Select the box "Editable" and it is possible to put in a value in the field manually or by using the hand scanner.

3.2.4.2   Product Code
Check or uncheck box to use product code.

3.2.4.3   Blood Group
Check or uncheck box to use blood group.

3.2.4.4   Collection date
Check or uncheck box to use collection date.
If "Editable" box is checked, then it is possible to change the collection date manually.

If "Recalculate" box is checked, then QTA Access Point will calculate a shelf life from given collection date and start QTA Tracer with this value.

3.2.4.5   Expire date
Check or uncheck box to use expire date.

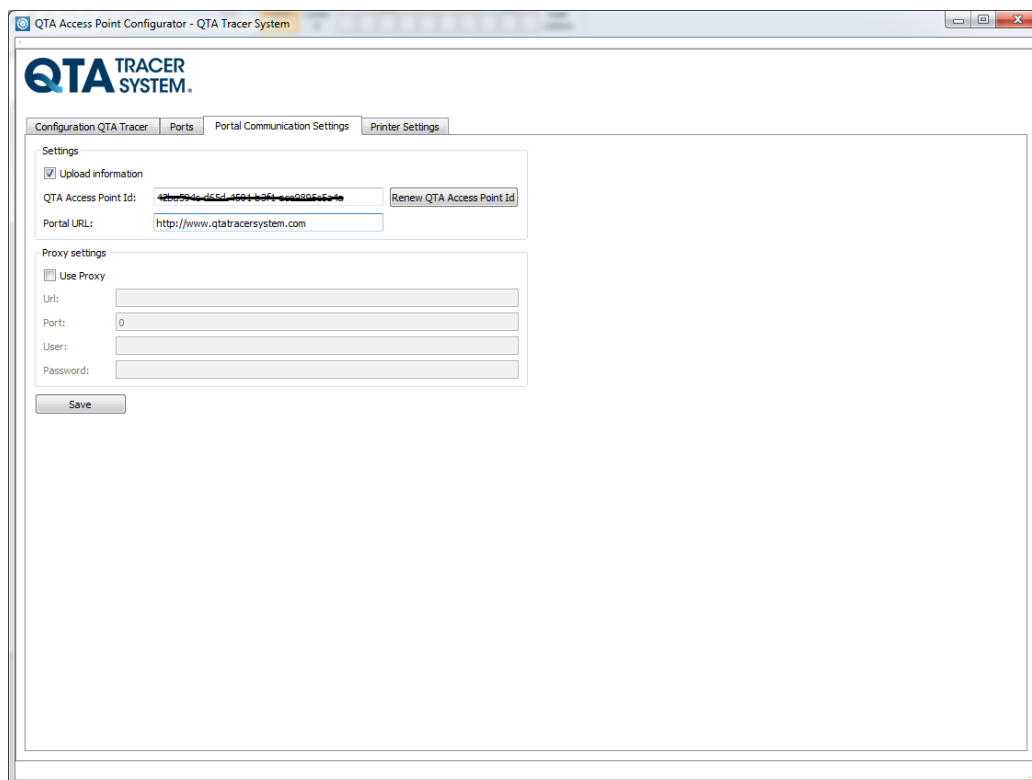### 3.2.5   Editing any of the entries
To change setting, change any of the entries, just mark and edit the appropriate fields and click the Save-button

3.2.6   Delete a configured class
Mark the ISBT Class you want to delete and click "Delete".

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3.3   Set up Portal Communication Settings

3.3.1   Upload information
If box is checked – information from tracer is uploaded to the QTA Web Portal

3.3.2   QTA Access Point Id
The unique Id for this Access Point. Copy this Id and add it to the correct organization on the QTA Web Portal (via the tab "Nodes"). The information retrieved when scanning a tracer in the Access point will then be automatically uploaded to the correct organization.

QTA Access Point Id could be renewed by clicking on "Button "Renew QTA Access Point Id", if for example the node is relocated, but you still want to keep the log entries from the previous location.

3.3.3   Portal URL
The URL of the receiving portal. Default: http://www.qtatracersystem.com

3.3.4   Proxy settings
Settings for the Proxy on the Access Point Network.
Default – no settings.

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3.4 Set up Printer

3.4.1 Print label
Checked – Label is printed

3.4.2 Auto print
Checked – Label with "Expiry date" is printed automatically when QTA Access Point read out status from QTA Tracer.

3.4.3 Print description
Checked – "Expiry date" description is printed on the label.

3.4.4 Printer name
Select printer to use from drop down list.

3.4.5 Label width/height
Label format in millimeters.

3.4.6 Margin left/right/top/bottom
Margins in millimeters.

3.4.7 Font name/size
Select font to use from drop down list.

3.4.8 X/Y position text
Text position in X and Y coordinates.

3.4.9 Date format
Select date format from drop down list.