

User manual



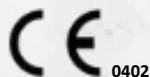
QTA Access Point Configurator

Version 1.0.1.0



**QTA TRACER
SYSTEM®**

Version 1.0



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.

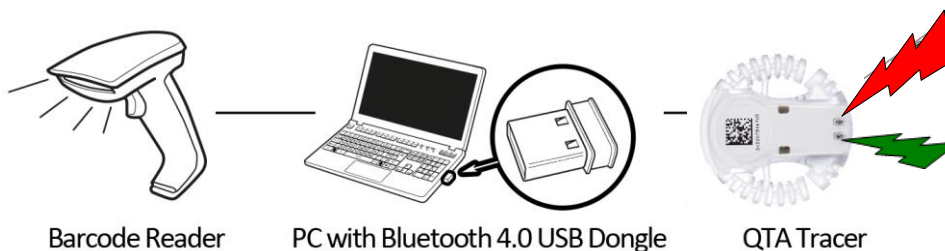


Figure 1. The QTA Tracer System

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.
 <small>3c2db784e765</small>	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.
	QTA Tracer product number.
	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:





- 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.



3 Usage

Start up the QTA Access Point Configurator.

3.1 Set up COM ports

To set up com ports for bar code 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:

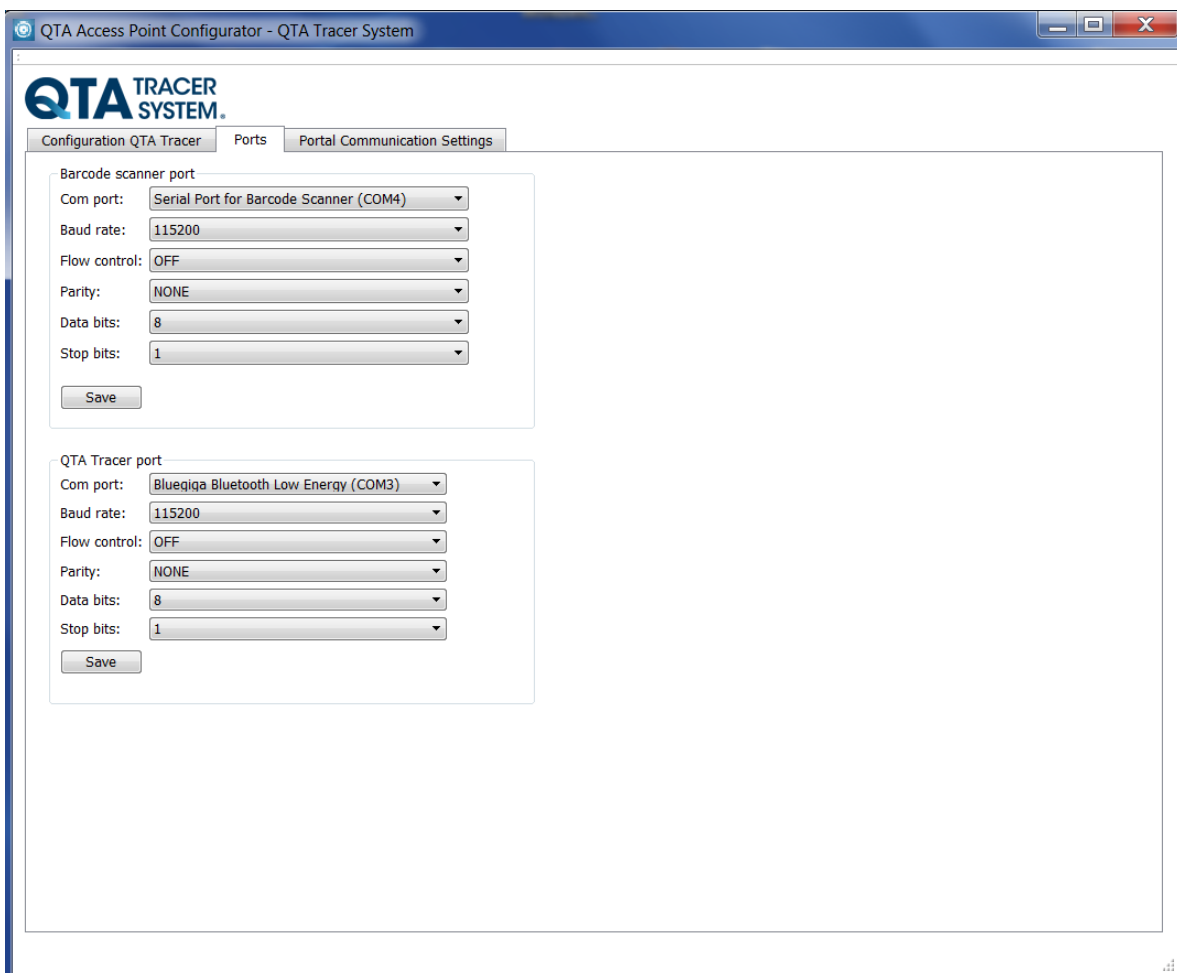


Figure 2 Configure ports



3.2 Set up QTA Tracer settings

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

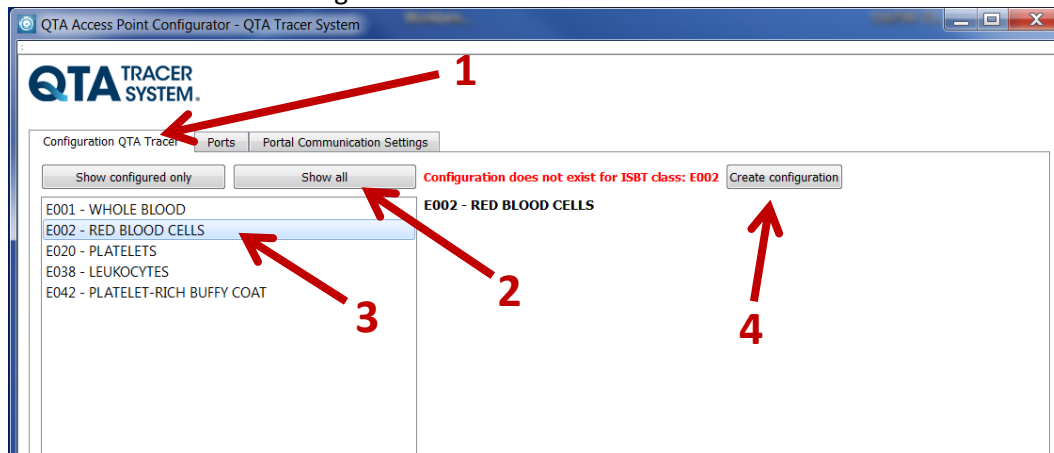


Figure 3a Configure QTA Tracer Settings

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

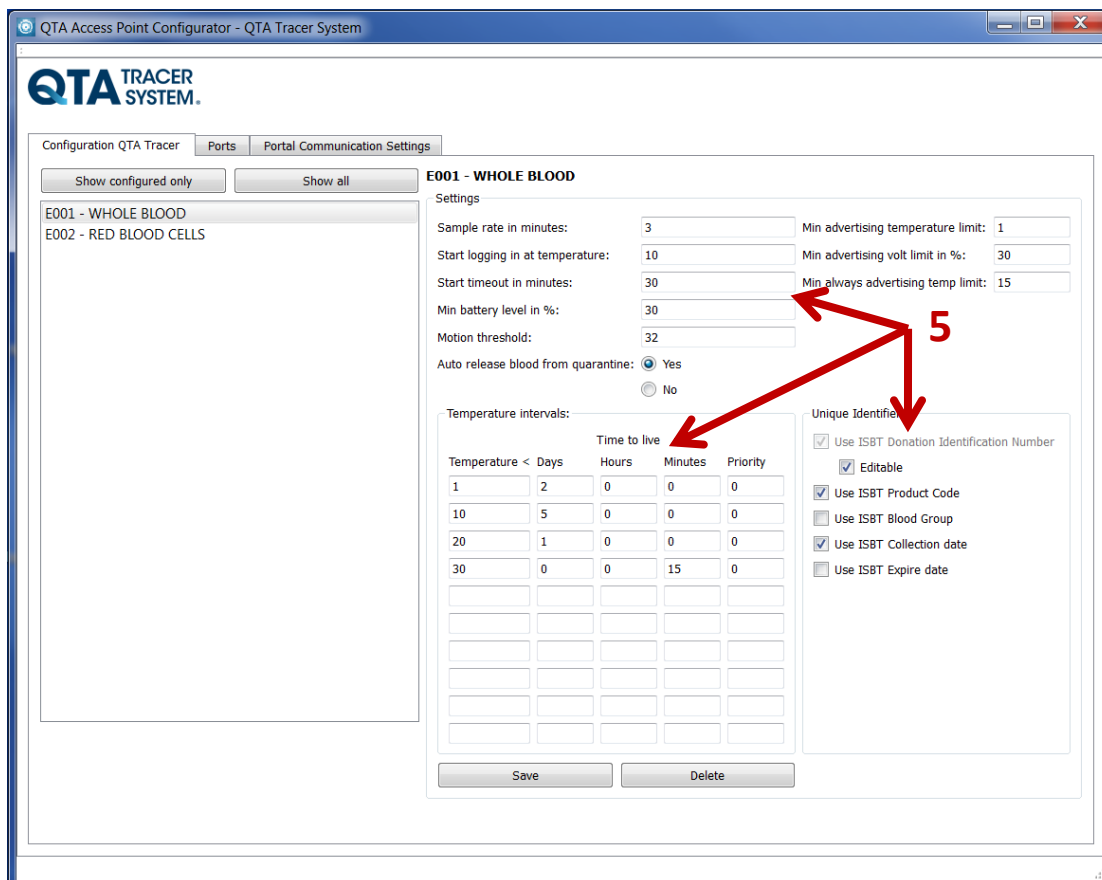


Figure 3b Configure QTA Tracer Settings



6. The ISBT classes you have configured are then displayed when you press “Show configured only” button

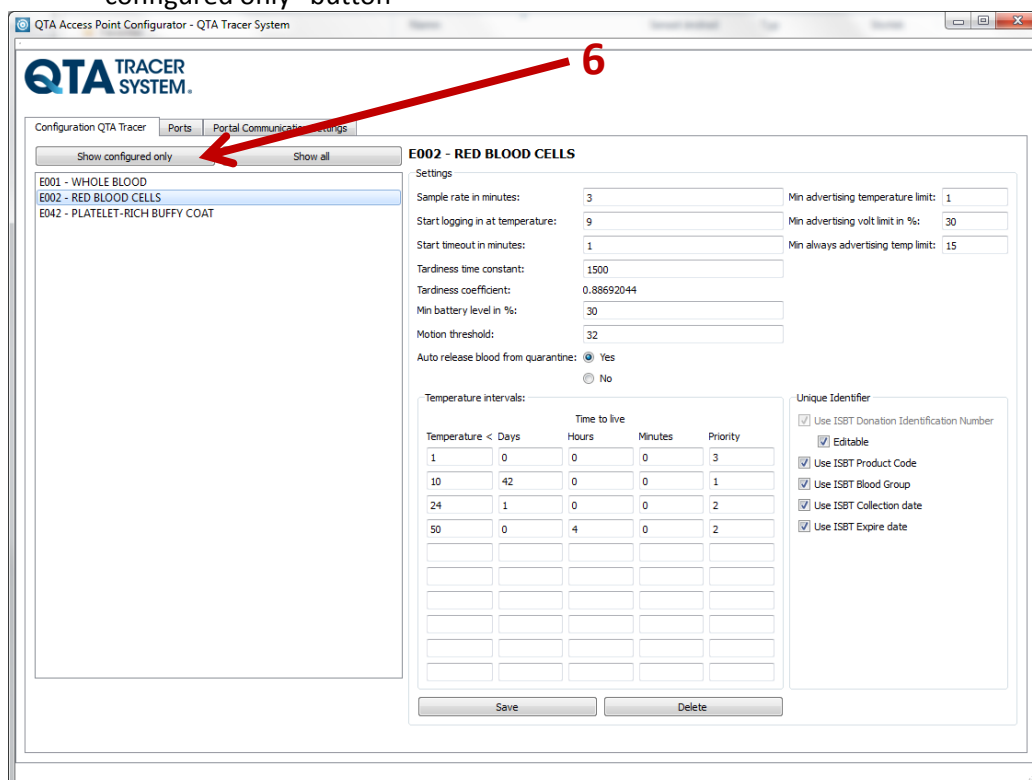


Figure 3c Configure QTA Tracer Settings – “Priority” and “Show configured only”

7. To configure another ISBT class – follow the same steps again

3.2.1 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

3.2.2 Start logging in temperature below:

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 this value. Tracer flashes red until this condition is met). **Note:** This parameter is overridden if “Start timeout in minutes” is true.

Range: -127 - 127 °C

3.2.3 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.



3.2.4 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

3.2.5 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 %

3.2.6 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

3.2.7 Auto release blood from quarantine:

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

No – 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: Yes

3.2.8 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

3.2.9 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 %



3.2.10 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



3.2.11 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: -127 - 127 °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 intervals:

Temperature <	Time to live		
	Days	Hours	Minutes
1	0	0	0
10	42	0	0
24	1	0	0
30	0	4	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.

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 <	Time to live			Priority
	Days	Hours	Minutes	
1	0	0	0	2
10	42	0	0	0
24	0	10	0	1
30	0	1	0	2



3.2.12 Unique Identifier

Default setting include five fields:

- ISBT Donation Identification Number
- ISBT Product Code
- ISBT Blood Group
- ISBT Collection Date
- ISBT Expire Date

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”

All fields except the Donation Identification number could be excluded. Deselect the boxes for any of the four other fields.

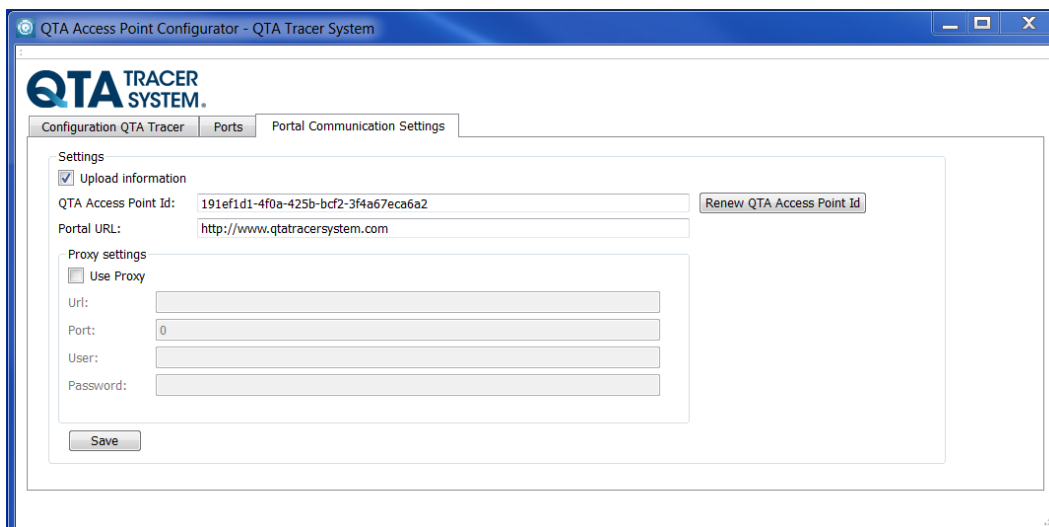
3.2.13 Editing any of the entries

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

3.2.14 Delete a configured class

Mark the ISBT Class you want to delete and click “Delete”.

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.



Id could be renewed (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.