User manual

QTA Access Point Configurator
Version 1.0.0.8

QTA TRACER SYSTEM ®

Version 1.0

CE 0402
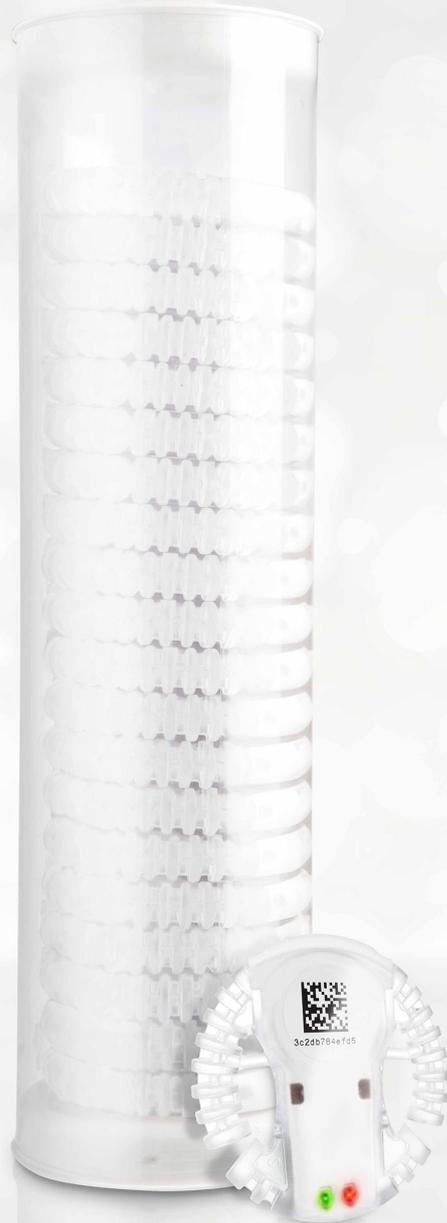
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1   Introduction

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 Abbott or by the local IT department on the hospital.
Bluetooth 4.0 Single Mode USB Dongle	Delivered by Abbott
Bar code reader reading 2D bar codes	Delivered by Abbott
QTA Tracer	Delivered by Abbott

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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
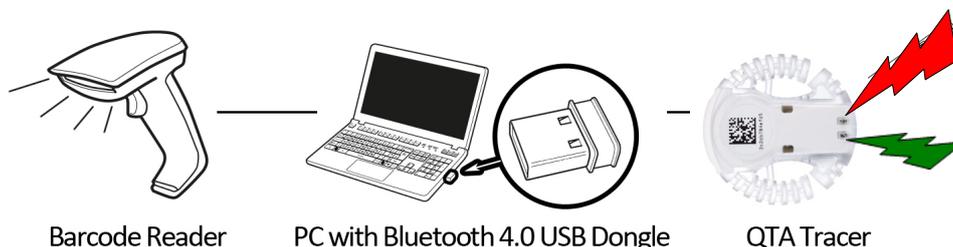
Figure 1. The QTA Tracer System

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.
(barcode) 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.
(WEEE symbol)	Waste Electrical and Electronic Equipment (WEEE) Statement. Return product to distributor.
(book symbol)	Read the manual before use.
(Bluetooth symbol)	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:

- 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 Abbott 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:
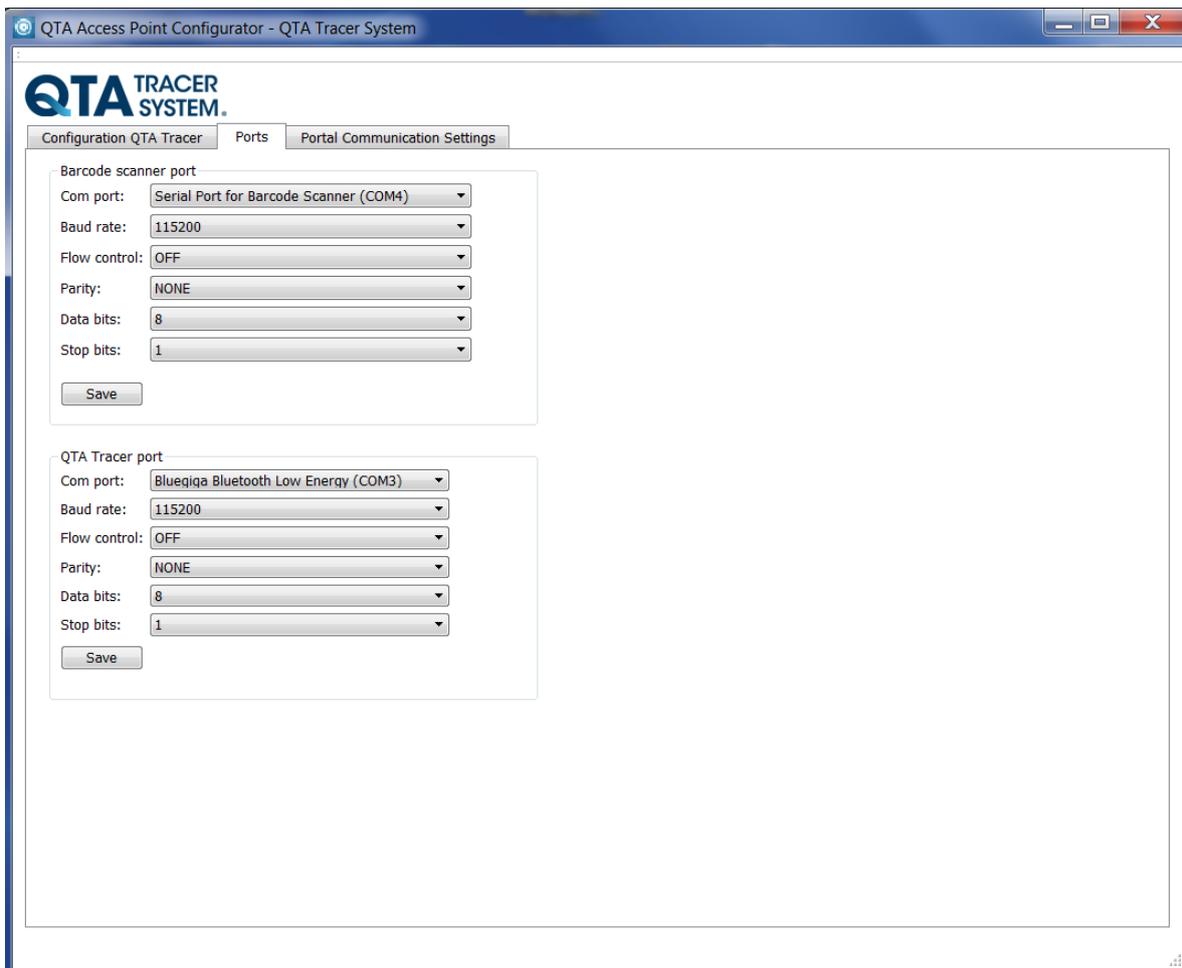
Figure 2 Configure ports

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
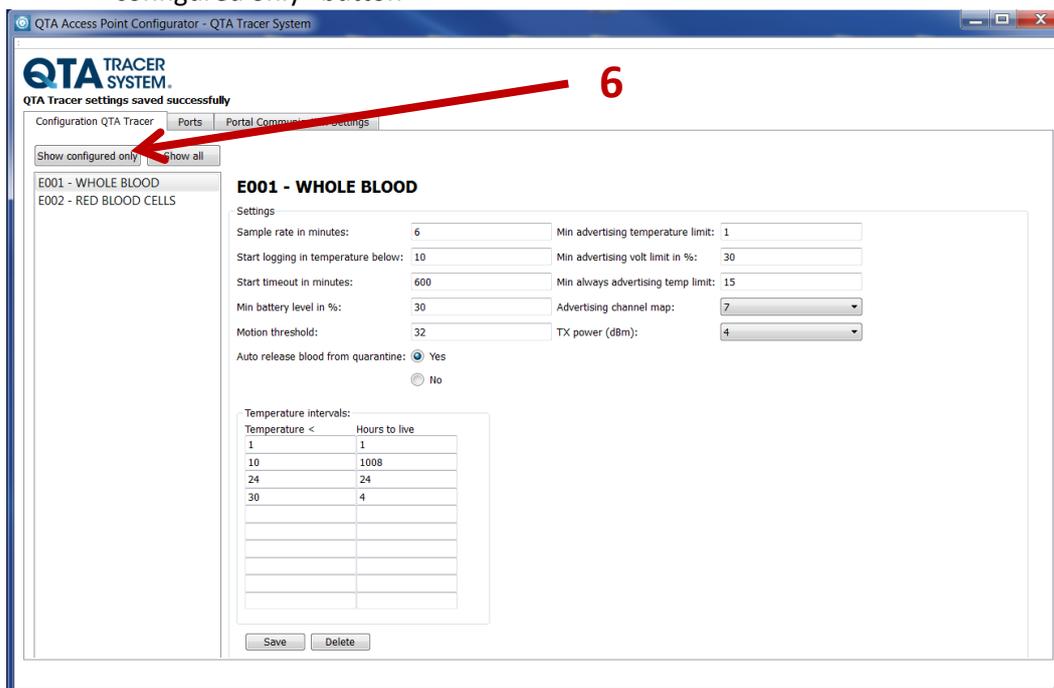
Figure 3c Configure QTA Tracer Settings – Show configured only

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   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 %

3.2.5   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

3.2.6   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

3.2.7   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

3.2.8   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 %

3.2.9   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

3.2.10 Advertising channel map:

This parameter is used to set the number of channels the Bluetooth will send out advertising packages on.
Setting 1 = 1 channel
Setting 3 = 2 channels
Setting 7 = 3 channels

Default: 7

3.2.11 TX power (dBm):

This parameter is not used in version 1.0

3.2.12 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
Hour range: 0 – 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 column for "Hours to live" you insert a number for how many hours the blood product will be valid for when stored in that temperature range.
Example:

Temperature <	Hours to live
1	0
10	1008
24	24
30	4

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 1008 hours of life
-    at temperatures between 10 and 23 ˚C the product has 24 hours of life
-    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.

3.2.12.1 To add a temperature
Fill in the fields for "Temperature <" and "Hours to live" and press the click "Save".

3.2.12.2 To edit a line in the temperature table
Click on the field to be edited and insert the new value. When the cursor is moved to another field or outside the table, the changes will be saved.

3.2.12.3 To delete a line in the table
Mark one of the fields on the table and press the press "Delete"-button.

3.3   Set up Portal Communication Settings
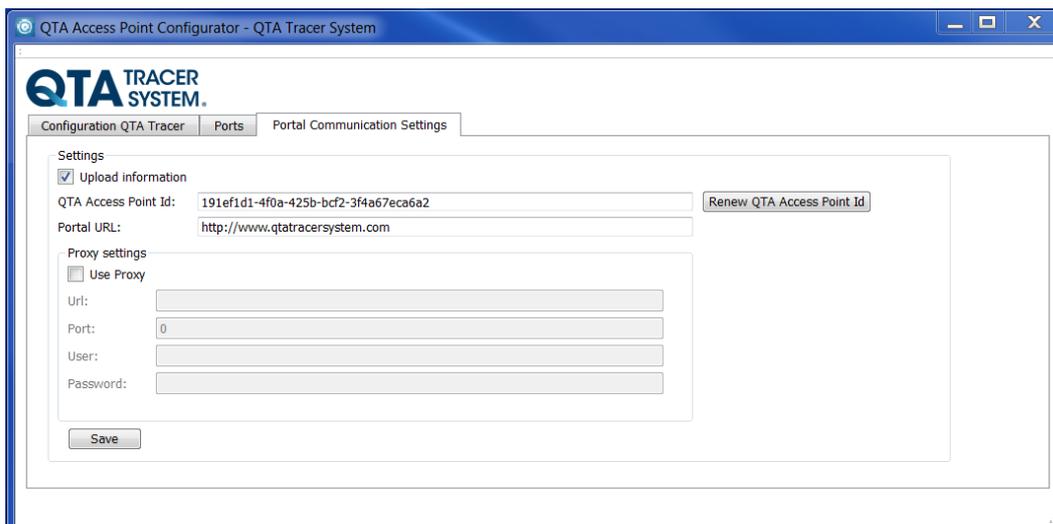
3.3.1   Upload information
If box is checked – information from tracer is uploaded to the QTA Web Portal

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.