









# **Table of contents**

1 Intro 1.1 1.2 1.3	duction System requirements System overview QTA Web Portal function	3 3 3
2 Insta	Illation	3
3 Usa( 3.1	ge Register Nodes (System administrators only) 3.1.1 Register QTA Access Point	4 4 4
3.2	3.1.2       Register QTA Check-in Node	5 5 7 7 7 7 7 7 8 8 8 9 9 9 9 9 9







# **1** Introduction

The QTA Web Portal gives the user access to QTA tracer data. Data from Tracers uploaded via QTA Access points and QTA Check-in Nodes.

### 1.1 System requirements

The following accessories are needed to use the QTA Tracer System

Accessory	Description
PC with Windows 7	Note book, Lap Top or stationary PC, 2Mb
	RAM

### 1.2 QTA Tracer System overview

The QTA Tracer system consists of a PC with the QTA Tracer System software installed, a Bluetooth USB dongle, a Barcode reader and QTA Tracers. For full functionality the system also includes QTA Check-in Nodes, QTA Readers and the QTA Web Portal. Figure 1 displays the QTA Tracer system.



Figure 1. The QTA Tracer System

### 1.3 QTA Web Portal function

The QTA Web Portal gives the user easy access to QTA Tracer data. All tracers initiated with a product are registered on the Web Portal at the initiation. Whenever an initiated tracer is scanned in the QTA Access Point or passes a QTA Check-in Node – data from the tracer is uploaded to the QTA Web Portal. Data can be filtered with many criteria to help the user get the information they need.

### 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 system could be installed by a local system manager who has gone through a training program on how to set up the QTA Tracer system.







# 3 Usage

Open your web browser and go to: www.qtatracersystem.com click on sign in the upper right corner to sign in with user id and password (provided by the system administrator)

# 3.1 Register Nodes (System administrators only)

## 3.1.1 Register QTA Access Point

To register a QTA Access point on the QTA Web Portal follow these steps:

- 1. Open QTA Access Point Configurator
- 2. Choose "PortalCommunication Settings" tab
- 3. Make sure "Upload Information" box is selected and Portal URL is correct (http://www.qtatracersystem.com)
- 4. Click on Save-button
- 5. Copy QTA Access Point Id

Confederation QTA Tracer Ports Portal Communication Settings  Settings  V Upload information  QTA Access Point Id: 191ef1d1-4f0a-425b-bcf2-3f4a67eca6a2  Portal URL:  Provy settings  Use Proxy Uri:  Port:  Save	QTA Access Poin	t Configurator - QTA Tracer System	X
Passwort:	QTA Access Poin     Configuration QTA     Settings     Volta dinfor     QTA Access Poin     Ortal URL:     Proxy settings     Url:     Port:     User:	ACER STEM. Hacer Ports Portal Communication Settings mation It Id: 191ef1d1-4f0a-425b-bdf2-3f4a67eca6a2 http://www.qtatracersystem.com	
	Passwort:		

Figure 2 QTA Access Point Configurator – Portal Communication Settings

- 6. On QTA Web Portal (Signing in see above) choose "Nodes" tab
- 7. Paste the QTA Access Point Id into the "Node unique id" text field
- 8. Click on "Search and Edit"-button

		Y		1		21.92		
CY DA SYSTEM.		RA				3c2db784683	- Sere	
Blood bags Nodes		Cart I						
Nodes 🌂								
Node unique id:			Searcl	and	Edit			
Description	Location	Node type						
Leif AP 1	Leif kontor	QTA Access Point - Wi	ndows	Edit	Delete			
Leif AP Test 1.0.0.7 installer	Leif kontor	QTA Access Point - Wi	ndows	Edit	Delete			
Leif Test CIN 1	Leif kontor	Check-In node IPad		Edit	Delete			
Leifs CIN 2	Leif kontor	Check-In node IPad		Edit	Delete			
Magdalena AP 1	Enrisv	QTA Access Point - Wi	ndows	Edit	Delete			
Mattias 1.0.0.7	Bok	QTA Access Point - Wi	ndows	Edit	Delete			
Mattias AP 1006	Bokskogen	QTA Access Point - Wi	ndows	Edit	Delete			
Mattias iPhone 1.2.10	Bokskogen	Check-In node IPad		Edit	Delete			
Showing 1-8 of 8 hits << < 1 of <u>1</u> > >>								

Figure 3 QTA Web Portal – Node registration







9. Fill in the form. Make sure the description and Location makes it easily identified on the Portal

ld:	c34aa0e2-6ed2-4914-9726-9ee185830f03
Organization id:	13001
Node type:	QTA Access Point - Windows
Description:	
Location:	
Address 1:	
Address 2:	
City:	
Postal code:	
Country:	Sweden
Time limit for object on queue:	0
Time between upload attempts:	0
Max number of upload attempts:	0
Node version:	1.0.0.8
Created date:	2013-08-30 06:40:55
Modified date:	2013-09-26 08:13:41
Save Cancel	

Figure 4 QTA Web Portal – Node form

### 3.1.2 Register QTA Check-in Node

To register a QTA Check-in Node on the QTA Web Portal follow these steps:

- 1. On iPad choose "Settings"
- 2. Scroll down to "QTA Check-in Node"
- 3. Make sure Server location is correct (http://www.qtatracersystem.com)
- 4. Copy CIN UUID (if the field is empty, first open the Check-in Application on the iPad)

•••••• TELIA 3G	14:04	* 81 % 💻
Settings	QTA Che	ckin
Cloud E-post, kontakter, kalendrar	SERVER SETTINGS	.qtatracersystem.com
Anteckningar	CIN UUID 6A964406-DF75-	48B8-A8E0-64038DFD4
Păminnelser Meddelanden	QUEUE Seconds between updates	s 300
FaceTime	Seconds between uploads	300
	Number of upload attempt	ts 576
🧭 Safari	ABOUT	
	Version	1.2.10
QTA Checkin	Developed by	PuffinPack AB
	Copyright © 2013 by Tridentify A All rights reserv	B. red.

Figure 5 QTA Check-in Node – Settings

Follow steps 6-9 on "Register QTA Access point" above, to complete the registration.

#### 3.2 QTA Web Portal – Blood bag info

Signing in on the QTA Web Portal, your organization's blood bags will be listed.

1. In the left column the Blood Bag Logs/hits will be listed<sup>1</sup>. The default number of logs is ten. At the bottom of the box you can navigate to other hits<sup>1A</sup>.

The end of each row displays a colored dot revealing the status of the blood bag/tracer from the latest Readout<sup>1B</sup>. Hovering over the dot displays the status







in text. Blue="Waiting for start", Green="Blood valid", Orange="Near expiration" and Red="Blood invalid". The default for showing "Near expiration" is when 20% of the life (42 days for red blood cells) is left.

Search Donation identification number at the top<sup>1C</sup> – or choose "Advanced Search" for better search options (see more information below).

- Clicking on a Donation identification no opens the Readouts list for that blood bag in the right column<sup>2</sup>. "Readouts" lists Access Points and Check-in Nodes that have registered the Bloodbag(Tracer) with date and time and Location (default 10 hits/page). If the tracer has been registered in a Check-in Node the "Show lat/long"-link will show the Check-in Node's location on Google Maps<sup>2A</sup>.
- Selecting one of the readouts will open Readout Details<sup>3</sup>. "Readout details" shows the estimated expiration date for the temperature intervals the tracer is configured with<sup>3A</sup>. It also lists details about the Tracer<sup>3B</sup> and the Blood bag<sup>3C</sup>.

Blood bag logs						Readouts				24
1C Donation identification no		Search	Advanced sea	irch	Clear form	Date 2013-09-20 10:00:55	Node Check-in BLC Ryhov	Location Address 1	City Cou	ntry ZA
Donation identification	Blood group	Product code	Collection date	e	10 -	2013-09-20 07:41:55	Check-in BLC Ryhov		Jönköping Swe	den <u>Show lat/long</u>
<u>300121301114703</u>	5100, O RhD positive	E3846V00	2013-09-20 08:19	View configura	tion a	<u>2013-09-19 21:10:34</u>	Check-in BLC Ryhov		Jönköping Swe	iden <u>Show lat/long</u>
300121301114543	5100, O RhD positive	E3846V00	2013-09-20 07:47	View configura	tion 💿	<u>2013-09-19 19:59:29</u> <u>2013-09-17 19:03:22</u>	Check-in BLC Ryhov Check-in BLC Ryhov		Jönköping Swe Jönköping Swe	den <u>Show lat/long</u> den <u>Show lat/long</u>
<u> 300121300982603</u>	5100, O RhD positive	E3846∨00	2013-08-22 18:02	<u>View</u> configura	tion 🔷	2013-08-30 16:02:34 2013-08-29 08:27:02	Check-in BLC Ryhov Check-in BLC Ryhov		Jönköping Swe Jönköping Swe	den <u>Show lat/long</u>
500121300999103	5100, O RhD positive	E3846V00	2013-08-27 13:28	View configura	tion	2013-08-23 10:17:18	Check-in BLC Ryhov		Jönköping Swe	den Show lat/long
500121300984403	7300, B RhD positive	E3846V00	2013-08-23 08:57	<u>View</u> configura	tion	2013-08-23 10:15:57 Showing 1-10 of 10 hit	AP BLC Rynov		Jonkoping Swe	den
<u>\$00121301027003</u>	6200, A RhD positive	E3846V00	2013-09-03 11:03	<u>View</u> configura	tion	Export readouts to CS	<u>v</u>			
00121301110403	9500, O RhD negative	E3846V00	2013-09-19 13:37	<u>View</u> configuration	tion	Readout det	ails 2013-00	-20.08.00		7
00121301058303	0600, A RhD negative	E3846V00	2013-09-10 11:53	<u>View</u> configura	tion	Time remaining	2010-03	Estimated exp.da	te	
<u> 300121301043103</u>	5100, O RhD positive	E3846V00	2013-09-05 11:48	<u>View</u> configura	tion	Temp < 1C° 0 days 0 Temp < 10C° 7 days 2	hours 0 minutes hours 24 minutes	2013-09-27 10:25	3A	
<u>\$00121300975702</u>	5100, O RhD positive	E3846V00	2013-08-22 10:24	<u>View</u> configura	tion	Temp < 24C° 0 days 4	hours 3 minutes	2013-09-20 12:04		
howing 351-360 of 1,712 << < <u>34 35</u> 36 <u>37 3</u>	hits <b>1A</b> 8 of <u>172</u> > >>					Tracer:	indera 40 minutea	2010-00-20 00:41	$\prec$	
						ld:	78c5e	5727bc0		
						Blood valid:	~		38	2
						Released from quara	ntine: 🗸			3
						Status:	Runnir	ng		
						Battery level:	100			
						blood bag info:				
						Donation identification	no: S0012	1300982603		
						Blood group:	5100, Not Sp	O RhD positive, Intended becified	Use 3C	
						Draduat anda:	50040	100		
	no CAMple I	الملسم				Product code.	E3040	V00		
Figu	re 6 Web I	Portal –	Blood Bag	gs		Collection date:	2013-	08-22 18:02	_	









## 3.2.1 Blood bag logs – column headings

Donation identification no, Blood group, Product code and Collection date are scanned from the blood bag at the initiation process. All, except Collection date, are searchable in Advanced Search.

### 3.2.2 View configuration

Next to the column for Collection date there is a View Configuration link for each blood bag. It displays the tracer configuration for that specific tracer and the blood bag info including the "Expire date", which is the presumed Expire date at the time of collection – not the expire date the Tracer recalculates after each temperature log.

For more information on configuration read Access point Configurator User Manual (00035-5 QTA Access Point Configurator - User Manual).

#### 3.2.3 Status color

The last column on Blood bag Logs consists of colored dots. This shows the Blood bag/tracer status.

Blue="Waiting for start" (the tracer has been initiated with the Blood bag, but temperature logging has not started)

Green="Blood valid"

Configuration S00201200002402 6200, A RhD positive, Intended Use Not Spec Blood group: Product code E3846000 Collection dat 2012-03-15 07:52 Expire date 2012-04-26 23:59 78c5e5728198 Sample rate 180 Start log in temp Start log timeout in m Motion threshold: 32 uto release blood from quarantine Yes Min advertising temp limit Min always advertising temp limi 15 Min advertising volt limit Advertising channels 7 1=1, 3=2, 7=3 Channels Log start 2013-10-07 13:56 1.0.0 HW version SW versio 1.0.5 Battery leve 100 Time to live in ho Temp < 1 °C 0 Hour Temp < 10 °C 1008 Hour Temp < 20 °C 1 Hou Temp < 30 °C 1 Hours Ok

Figure 7 Tracer configuration Settings

Orange="Near expiration" (the blood is valid but nearing its expiration date). By default the orange dot is shown when 20% or less of the time of the life span remains.

To edit the default setting – log in as administrator and click on the "wrench" in the upper right corner of the Blood bag logs info box. Choose Preferences and change the number for "Near expiration, % left"

Red="Blood invalid" (Blood has passed its expiration date which may have occurred earlier than the



expiration date printed on the blood bag if the temperature at some point has been too high or too low).

### 3.2.4 Navigating Blood bag logs

The blood bag with the most recent Readout (in an Access point or Check-in Node) first. The default setting is 10 hits/page (Administrator might edit settings. Change "Number of rows in list" in preferences – see above 3.2.3 status color – orange.)

Click on a page number (four page numbers closest to the current one is shown) or click > to step back one page, < to step forward (towards the most recent readout), >> to go to the page with the oldest readouts and << to go to the page with the most recent readouts.

<u>S00201200002502</u>	0200, A RND positive
Showing 21-30 of 1,154	hits
<< < <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> of	116 > >>

Figure 9 Navigating Blood bag logs







## 3.2.5 Advanced Search

Choose Advanced Search in "Blood Bag Logs" to fine tune your search.

Blood bags Node	s		the feat		m.
Blood bag logs					
🍓 🗆 Near expiration On	ly 🔹 🍓 🗹 Blood	valid 🏾 🍓 🗹	Blood not valid (ind	d. 🍳 Waiting for st	art)
Node:	▼ Trace	r id:	Product code	е	
Blood group:					-
Blood group:	o:	Search			Clear form
Donation identification no	o:	Search Product code	Collection date		Clear form
Donation identification no S00201200002402	o: Blood group 6200, A RhD positive	Product code E3846000	Collection date 2012-03-15 07:52	View configuration	Clear form
Donation identification no Donation identification no S00201200002402 S00201200002402	o: Blood group 6200, A RhD positive 6200, A RhD positive	Product code E3846000 E3846000	Collection date 2012-03-15 07:52 2012-03-15 07:52	View configuration	Clear form
Blood group: Donation identification no S00201200002402 S00201200002402 S00201200002402	o: Blood group 6200, A RhD positive 6200, A RhD positive 6200, A RhD positive	Product code E3846000 E3846000 E3846000	Collection date 2012-03-15 07:52 2012-03-15 07:52 2012-03-15 07:52	View configuration View configuration View configuration	Clear form

Figure 10 Web Portal – Advanced Search

Default settings search for all blood bags – Blood valid (incl. Near expiration) and Blood invalid (incl. Waiting for start)

- Selecting "Near expiration only" will automatically discard Blood valid that is not near expiration (green) and Blood invalid (red).
- "Node" lets you search for tracers registered only in a specific Node (Access Point or Check-in Node)
- "Tracer id" search for a specific tracer. Note that a tracer might have more than one Blood bag log since tracers are reused after the blood bag has been depleted. You can enter only part of a tracer id using \* - e.g. \*8198 or 78c5\*.
- "Product Code" listing all blood bags with a certain Product code.
- "Blood group" Search a specific blood group only.
- "Donation identification no" lets you search for a specific blood bag

#### 3.2.6 Readouts - Column headings

The first column of the Readouts info box shows the date and time for the Readout. The five columns next to the Date show Node name and the location of the node.

Date	Node	Location	Address 1	City	Country	
2013-08-27 14:07:57	Check-In BLC Värnamo	Blodcentralen Värnamo	Doktorsgatan	Värnamo	Sweden	<u>Show</u> lat/long
2013-08-27 09:08:41	Check-In BLC Värnamo	Blodcentralen Värnamo	Doktorsgatan	Värnamo	Sweden	<u>Show</u> lat/long

Figure 11 Readouts columns



Figure 12 Readouts – show lat/long

The last column displays a link – "Show lat/long – if the node is a Check-in Node. Selecting that link opens Google Maps to reveal the location of the Check-in Node (at the time of the Readout).







## 3.2.7 Readouts Navigation

By default ten hits are displayed per page. Click on a page number (four page numbers closest to the current one is shown) or click > to step back one page, < to step forward (towards the most recent readout), >> to go to Showing 1-10 of 31 hits << < 1 2 3 4 of 4 > >> Export readouts to CSV Export last temperature log to CSV

Figure 13 Navigating Readouts

the page with the oldest readouts and << to go to the page with the most recent readouts.

## 3.2.8 Export CSVs

Below the Readouts list there is a link to export readouts to CSV<sup>14A</sup> (CSV-files could be opened in e.g. Microsoft Excel) Information exported includes (for each of the readouts):

Node

2013-10-07 15:13:13 Mattias 1.0.0.7 Bo

2013-10-07 14:57:58 Mattias 1.0.0.7 Bok

2013-10-07 14:57:50 Mattias 1.0.0.7 Bok

14B

Export readouts to CSV Export last temperature log to CSV

Readouts

Showing 1-5 of 5 hits

14A<< < 1 of 1 > >>

Date

- Date
- Node
- Location
- Address
- Postal code
- City
- Country
- Tracer id
- Blood valid
- Released from quarantine
- Tracer status
- Battery level
- Donation identification no
- Blood group
- Product code
- Collection date
- Expire date
- Time Remaining

If the Tracer has been scanned in a QTA Access Point you will also be able to export last temperature log<sup>14B</sup> listing all temperatures the Tracer has been exposed to from Start until it was scanned in the QTA Access point.

#### 3.2.9 Readout details - Time remaining

"Time Remaining" lists (in days, hours and minutes) the time left before the product expires. It shows the time remaining for each of the temperature intervals the Tracer has been configured for in the QTA Access Point Configurator. The second column shows the Estimated expiration date for each of these intervals.

9

#### Readout details 2013-09-18 06:06

Time remaining	Estimated exp.date
Temp < 1C° 0 days 0 hours 0 minutes	
Temp < 10C° 37 days 13 hours 57 minutes	2013-10-25 20:03
Temp < 24C° 0 days 21 hours 28 minutes	2013-09-19 03:35
Temp < 30C° 0 days 3 hours 34 minutes	2013-09-18 09:41

Figure 15 Readout details – Time remaining & Estimated expiration date





Figure 14 Web Portal – Export CSVs

Location Address 1

2013-10-07 15:08:43 Leif Test CIN 1 Leif kontor Enrisvägen 33B Hönö Sweden Show lat/long

2013-10-07 15:02:33 Leif Test CIN 1 Leif kontor Enrisvägen 33B Hönö Sweden Show lat/long

City Country

Sweden

Sweden



### 3.2.10 Readout Details – Tracer info

Tracer info includes:

- ID = tracer Id
- Blood valid: Green tic ✓ means log is initiated and blood is valid. Red x ★ means the tracer is "waiting for start" or the blood has expired
- **Released from quarantine**: Green tic  $\sqrt{}$  = released. Red x  $\times$  = not released.
- **Status**: Showing the tracer status.

Running: tracer initiated and temperature is logged Waiting for start: Tracer is initiated but temperature not yet logged. (See "Start log in temp below" and "Start log timeout in minutes" in QTA Access Point Configurator – User Manual.)

- *Configuration*: the tracer is in configuration mode. Initiation not completed. Tracer needs to be reinitiated.
- *Error*: Tracer is malfunctioning or battery depleted. Return to Blood Center.
- **Batter level**: in % how much buttery life remains

Tracer:	
ld:	78c5e572737c
Blood valid:	×
Released from quarantine:	$\checkmark$
Status:	Running
Battery level:	100

Figure 16 Readout details – Tracer information

# 3.2.11 Readout Details – Blood bag info:

Displays Donation identification number, Blood group, Product code, Collection date and Expire Date printed on the blood bag. Expire date is estimated expiration date at the collection – not the actual expiration date that is continuously recalculated by the tracer.

Blood bag info:	
Donation identification no:	S0012100000502
Blood group:	2800, AB RhD negative, Intended Use Not Specified
Product code:	E3846V00
Collection date:	2010-07-08 08:52
Expire date:	2010-08-19 23:59

Figure 17 Readout details – Tracer information







