



# Checkmate Data Collector

## Operations Guide

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## Table of Contents

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<b>About This Guide .....</b>	<b>5</b>
Document Conventions .....	5
<b>General Overview CHECKMATE Data Collector.....</b>	<b>7</b>
<b>Operational Tasks.....</b>	<b>10</b>
Dashboard .....	11
Registration Information .....	12
Software License .....	12
License Notifications .....	13
Message Log .....	14
Message Detail Page .....	15
Reporting .....	18
Download CSV-File.....	18
Delete CSV-File.....	18
User Profile .....	19
Logout.....	19
Change Password.....	19
Help.....	19
Operations Guide.....	19
Contact Us.....	20
About .....	20
<b>Administrative Tasks .....</b>	<b>21</b>
User Management .....	21
Show Registered Users .....	22
Add User .....	22
Update User.....	23
Delete User .....	24
License Management .....	24
Show License Information .....	25
Activate License through CDC software over Internet .....	26
Manual License Activation .....	26
Device Management .....	28
Show Registered Device Aliases .....	29
Add Device Alias .....	29
Update Device Alias.....	30
Delete Device Alias .....	30
Settings.....	31
CSV settings .....	32
Logging Settings.....	33
Email/SMTP Settings .....	33
Logging Configuration .....	35
Logging Archive .....	36
Restart/Stop Server .....	37
Reporting – Delete CSV file .....	37
Delete CSV-File.....	37
Consult Logs.....	39
Consult Server Log .....	39
Consult Service Log.....	40

## Figures

<i>Figure 1 Connectivity CHECKMATE components .....</i>	<i>7</i>
<i>Figure 2 Process flow Probill message transmission .....</i>	<i>8</i>
<i>Figure 3 CDC Dashboard.....</i>	<i>11</i>
<i>Figure 4 Mouse over showing registration count.....</i>	<i>12</i>
<i>Figure 5 Mouse over showing the registered devices count.....</i>	<i>12</i>
<i>Figure 6 Mouse over showing the available device count.....</i>	<i>13</i>
<i>Figure 7 Dashboard with a License Notification.....</i>	<i>13</i>
<i>Figure 8 Message Log.....</i>	<i>14</i>
<i>Figure 9 Download as PDF.....</i>	<i>16</i>
<i>Figure 10 Send registration details via email .....</i>	<i>17</i>
<i>Figure 11 Reporting.....</i>	<i>18</i>
<i>Figure 12 User profile .....</i>	<i>19</i>
<i>Figure 13 Administrator User profile.....</i>	<i>19</i>
<i>Figure 14 Help menu .....</i>	<i>19</i>
<i>Figure 15 CDC About page.....</i>	<i>20</i>
<i>Figure 16 User Management - Registered Users Overview.....</i>	<i>22</i>
<i>Figure 17 New User .....</i>	<i>22</i>
<i>Figure 18 Update User.....</i>	<i>23</i>
<i>Figure 19 Delete User .....</i>	<i>24</i>
<i>Figure 20 Active License Information .....</i>	<i>25</i>
<i>Figure 21 License activation page .....</i>	<i>26</i>
<i>Figure 22 Manual license activation page.....</i>	<i>27</i>
<i>Figure 23 Website for manual activation of CDC License .....</i>	<i>28</i>
<i>Figure 24 Overview registered devices .....</i>	<i>29</i>
<i>Figure 25 Register Scale .....</i>	<i>29</i>
<i>Figure 26 Update Scale.....</i>	<i>30</i>
<i>Figure 27 Delete Device.....</i>	<i>30</i>
<i>Figure 28 CDC Parameters.....</i>	<i>31</i>
<i>Figure 29 CDC Logging Levels.....</i>	<i>35</i>
<i>Figure 30 Logging Archive menu .....</i>	<i>36</i>
<i>Figure 31 Manual archive of message and service log.....</i>	<i>36</i>
<i>Figure 32 Restart/Stop CDC server .....</i>	<i>37</i>
<i>Figure 33 Confirm stop/restart server operation.....</i>	<i>37</i>
<i>Figure 34 Delete CSV file.....</i>	<i>38</i>
<i>Figure 35 Confirm delete of CSV file .....</i>	<i>38</i>
<i>Figure 36 Server Log menu .....</i>	<i>39</i>
<i>Figure 37 Server Log .....</i>	<i>39</i>
<i>Figure 38 Service Log menu.....</i>	<i>40</i>
<i>Figure 39 Service Log.....</i>	<i>40</i>

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## About This Guide

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This guide provides operational instructions for the CHECKMATE Data Collector. The first part of the guide describes all non-administrative tasks a user can perform. The second part of the guide describes the administrative tasks an administrator can perform.

### Document Conventions

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Convention	Description
<b>Bold</b>	Identifies elements on a screen.
ThinFont	Identifies storage locations, like the location where to install the software.
UPPERCASE	Identifies keyboard keys.
<i>Italic</i>	Identifies variables for which you must enter a value.
Monospace font	Identifies messages displayed by the system.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the {} symbols
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the   symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information/ Do not type the ellipsis (...).



## General Overview CHECKMATE Data Collector

The CHECKMATE Data Collector is a server application that is able to receive Probill messages send by CHECKMATE, a mobile app for capturing the barcode, dimensions and optionally the weight of one or more parcels/pallets.

Figure 1 describes the complete message flow for a Probill message send by a handheld/PDA running the CHECKMATE app to the CHECKMATE Data Collector.

The handheld/PDA and the CHECKMATE Data Collector (CDC) are connected via a network. The handheld/PDA has a wireless connection via Wi-Fi and the CDC is either connected to the network using a cable connection or is via Wi-Fi.

The CHECKMATE Data Collector is installed on a (virtual)machine having a static IP-address, see *CHECKMATE Data Collector – Installation Guide*. The static IP-address is used in the CHECKMATE app to specify the endpoint where Probill messages will be delivered.

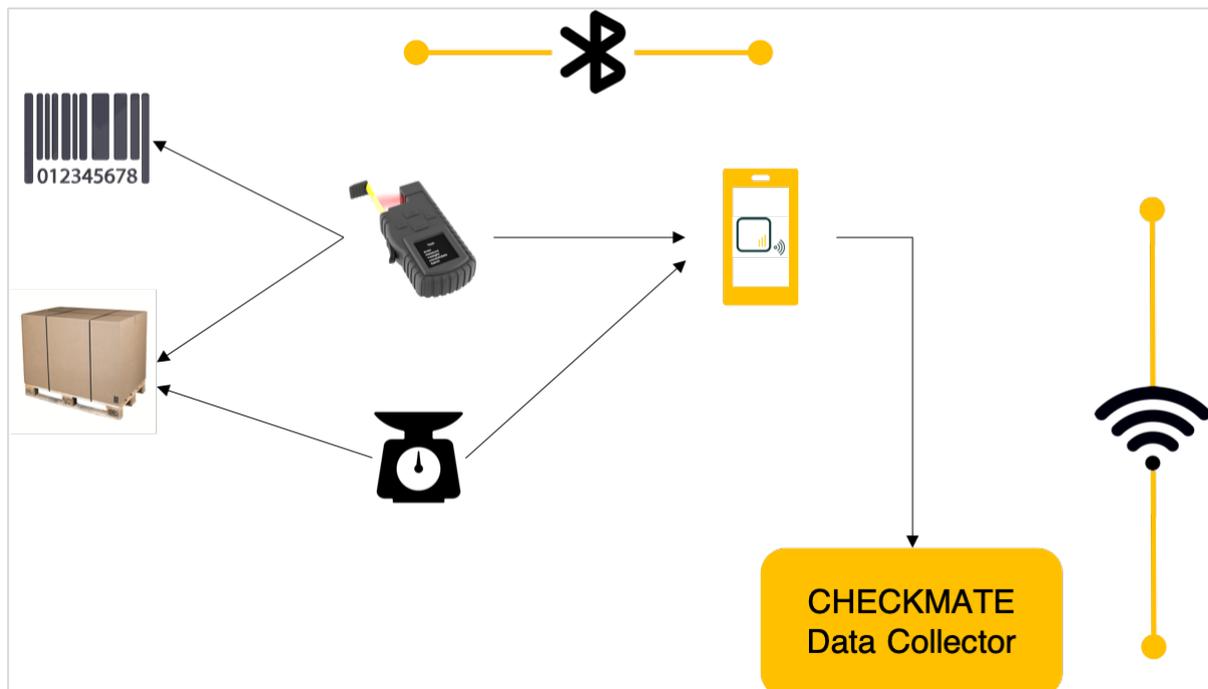


Figure 1 Connectivity CHECKMATE components

The CHECKMATE app is configured to connect:

1. via Bluetooth with:
  - a. The Cubetape device for capturing the barcode and dimensions of a parcel/pallet; Before scanning
  - b. A (mobile) scale for capturing the weight of a parcel/pallet. (optional)

The Cubetape and the (mobile) scale (if used) must be paired with the Handheld/PDA running the CHECKMATE app.

2. via Wi-Fi with the CHECKMATE Data Collector to deliver and persist the captured Probill messages.

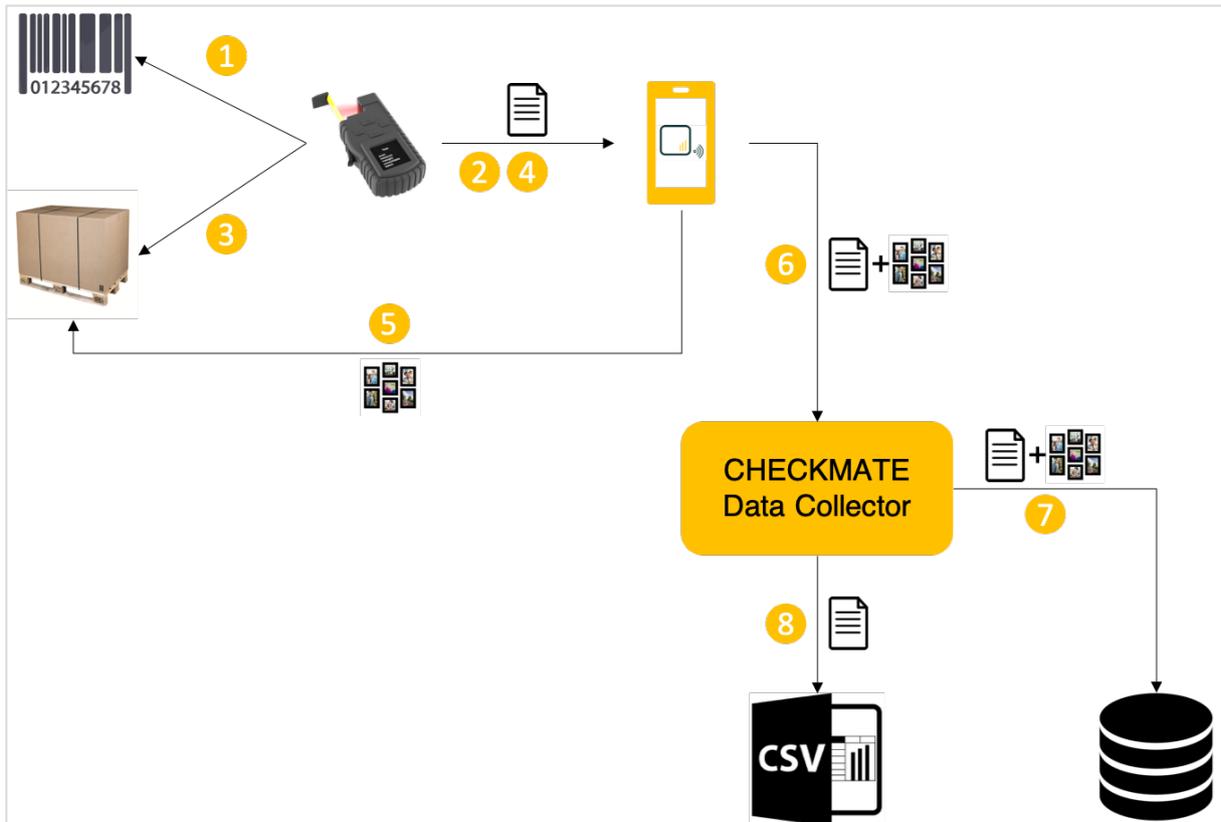


Figure 2 Process flow Probill message transmission

Process steps:

1. The barcode of a parcel/pallet is scanned by the Cubetape device.
2. The barcode is sent to the Checkmate app.
3. The dimensions of the parcel are captured by the Cubetape device
4. The dimensional data is sent to the Checkmate app.

If a (mobile) scale is configured, then an additional step is executed to capture the weight and send it to the CHECKMATE app.

5. A maximum of four photos can be taken and registered together with the other captured Probill data in the CHECKMATE app.
6. The captured data is confirmed and send together with the following meta data to the CHECKMATE Data Collector:
  - a. Timestamp of registration
  - b. ID of the Handheld/PDA
  - c. Operator ID
  - d. Alias of the Cubetape Device
  - e. Units of measurement and weight
7. The CHECKMATE Data Collector (CDC) persists the data and photo's in the message and service log, see [Message Log](#).
8. The received probill message data is written to a CSV file.

NOTE: In the case that the message has been received and processed before (same barcode and same Handheld/PDA device id), the receipt of the message is confirmed to the CHECKMATE app but it's not written again to the CSV file.

The CDC may create multiple CSV files depending on its configuration, see [app.output.csv.probill.content](#).

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## Operational Tasks

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This section describes the following operational controls of the CHECKMATE Data Collector for a regular user:

- Dashboard**
- Reporting**
- Logging**
- Help**

## Dashboard

The moment a user logs into the CDC web interface the Dashboard is shown, see Figure 3. The CDC Dashboard provides an overview of the status of the CHECKMATE Data Collector (CDC).

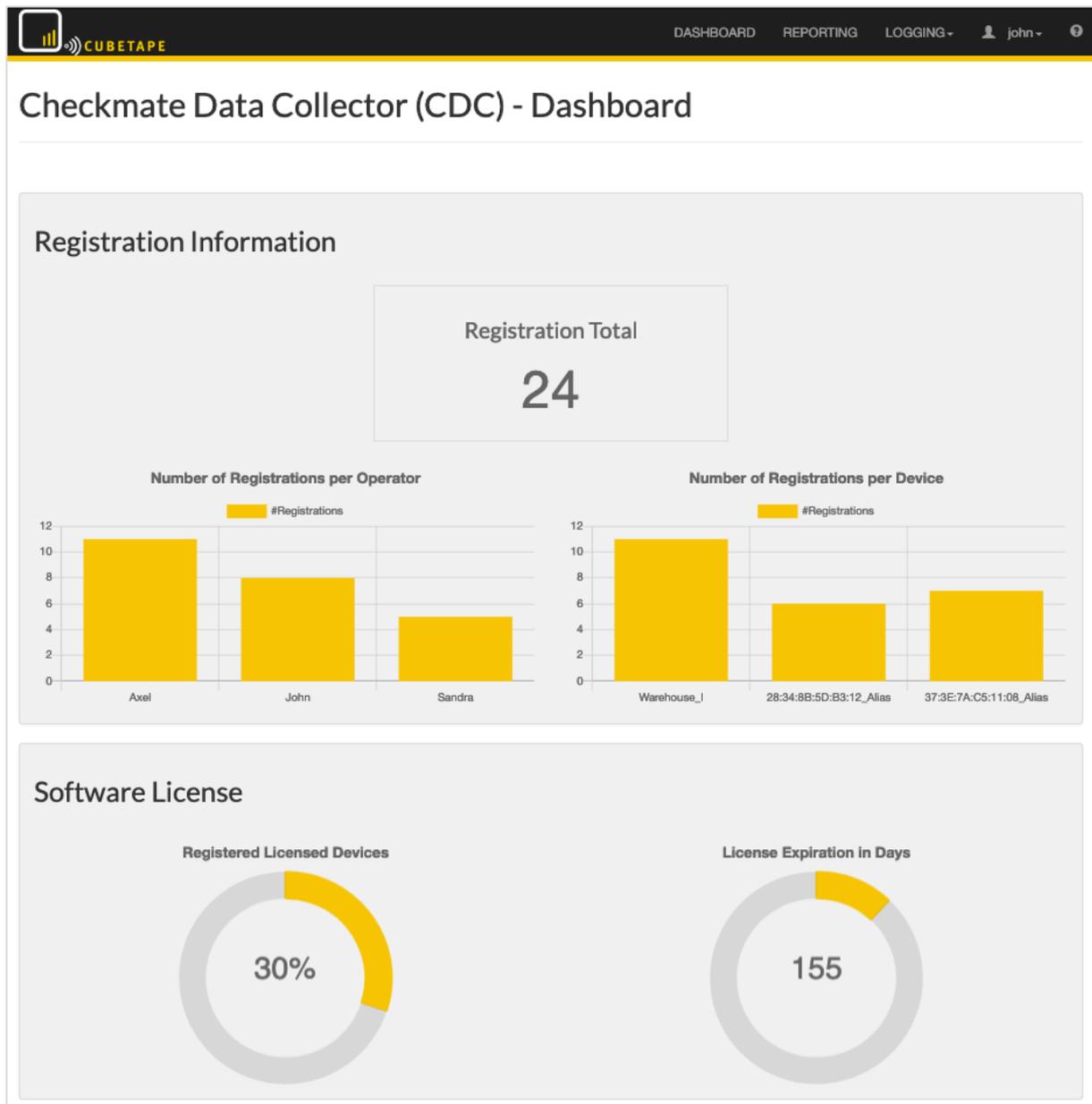


Figure 3 CDC Dashboard

The following status information is shown on the dashboard

## Registration Information

- **Registration Total**, the total number of registered messages in the message log, see [Message Log](#);
- **Number of Registrations per Operator**, a bar chart showing the total number of messages registered per operator of a Handheld/PDA device;
- **Number of Registrations per Device**, a bar chart showing the total number of messages registered per Handheld/PDA device.



Figure 4 Mouse over showing registration count.

## Software License

- **Registered Licensed Devices**, a gauge meter showing the percentage of the total number of licensed devices that has been registered. With a mouse-over movement the absolute numbers are shown, see Figure 5 and Figure 6.



Figure 5 Mouse over showing the registered devices count



Figure 6 Mouse over showing the available device count

## License Notifications

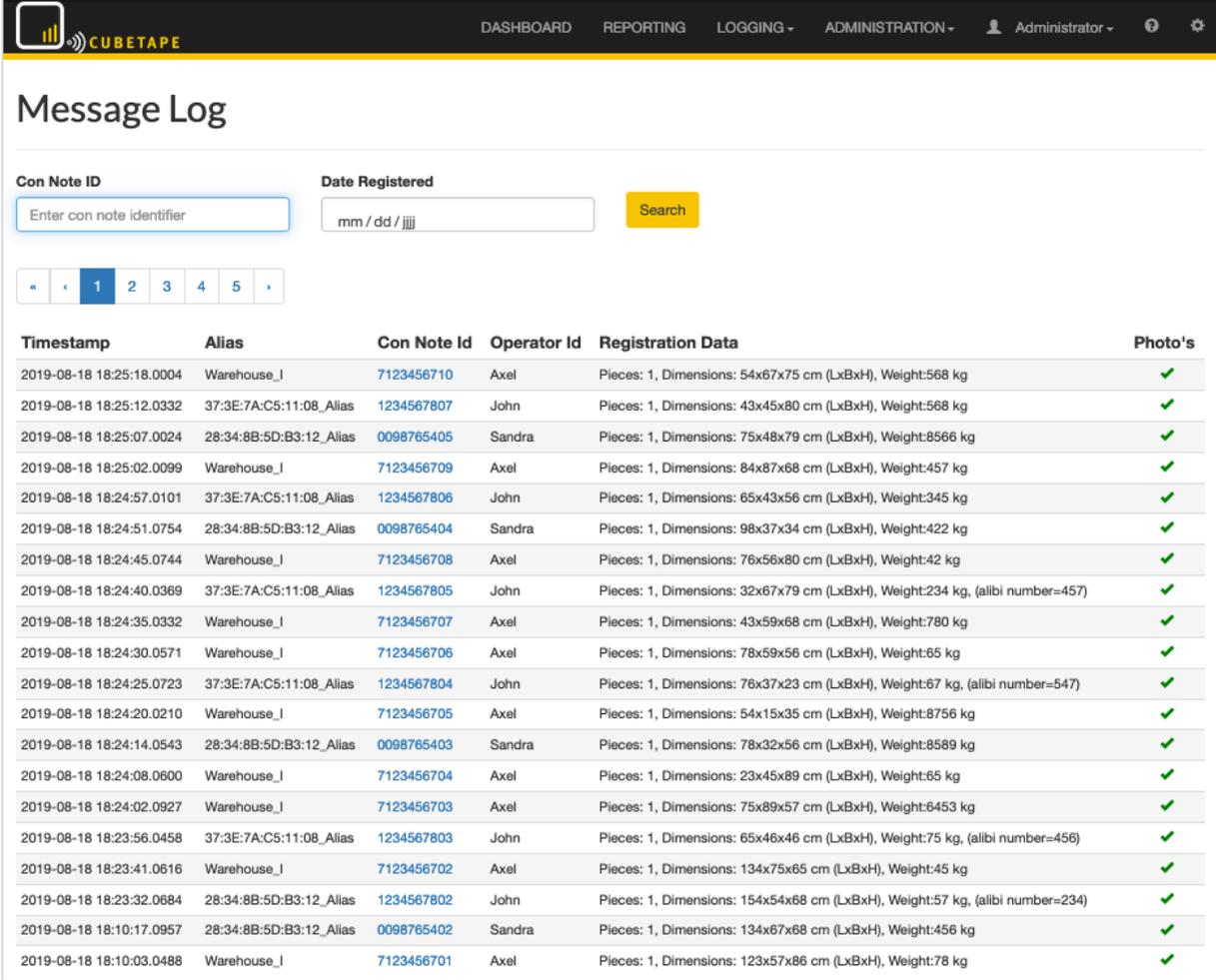
The CDC Dashboard displays every License notification that requires an action, for example Figure 7 indicates that the license will expire in 13 days. The *Administrator* of the CDC needs to enter an updated license key, see [License Management](#).

The screenshot shows the "Checkmate Data Collector (CDC) - Dashboard" interface. At the top, there is a navigation bar with the CUBETAPE logo and menu items: DASHBOARD, REPORTING, LOGGING -, ADMINISTRATION -, Administrator -, and a settings icon. Below the navigation bar, the main heading is "Checkmate Data Collector (CDC) - Dashboard". A prominent yellow notification box contains the text: "ATTENTION! License will expire in 13 days at 31 augustus 2019 18:29:48, contact your local sales representative to renew your license. (License Management)". Below the notification, there is a section titled "Registration Information" which contains a button labeled "Registration Total".

Figure 7 Dashboard with a License Notification

## Message Log

The Message Log can be accessed via **LOGGING/Message Log**. It shows all messages received by the CHECKMATE Data Collector (CDC), see Figure 8.



Timestamp	Alias	Con Note Id	Operator Id	Registration Data	Photo's
2019-08-18 18:25:18.0004	Warehouse_I	<a href="#">7123456710</a>	Axel	Pieces: 1, Dimensions: 54x67x75 cm (LxBxH), Weight:568 kg	✓
2019-08-18 18:25:12.0332	37:3E:7A:C5:11:08_Alias	<a href="#">1234567807</a>	John	Pieces: 1, Dimensions: 43x45x80 cm (LxBxH), Weight:568 kg	✓
2019-08-18 18:25:07.0024	28:34:8B:5D:B3:12_Alias	<a href="#">0098765405</a>	Sandra	Pieces: 1, Dimensions: 75x48x79 cm (LxBxH), Weight:8566 kg	✓
2019-08-18 18:25:02.0099	Warehouse_I	<a href="#">7123456709</a>	Axel	Pieces: 1, Dimensions: 84x87x68 cm (LxBxH), Weight:457 kg	✓
2019-08-18 18:24:57.0101	37:3E:7A:C5:11:08_Alias	<a href="#">1234567806</a>	John	Pieces: 1, Dimensions: 65x43x56 cm (LxBxH), Weight:345 kg	✓
2019-08-18 18:24:51.0754	28:34:8B:5D:B3:12_Alias	<a href="#">0098765404</a>	Sandra	Pieces: 1, Dimensions: 98x37x34 cm (LxBxH), Weight:422 kg	✓
2019-08-18 18:24:45.0744	Warehouse_I	<a href="#">7123456708</a>	Axel	Pieces: 1, Dimensions: 76x56x80 cm (LxBxH), Weight:42 kg	✓
2019-08-18 18:24:40.0369	37:3E:7A:C5:11:08_Alias	<a href="#">1234567805</a>	John	Pieces: 1, Dimensions: 32x67x79 cm (LxBxH), Weight:234 kg, (alibi number=457)	✓
2019-08-18 18:24:35.0332	Warehouse_I	<a href="#">7123456707</a>	Axel	Pieces: 1, Dimensions: 43x59x68 cm (LxBxH), Weight:780 kg	✓
2019-08-18 18:24:30.0571	Warehouse_I	<a href="#">7123456706</a>	Axel	Pieces: 1, Dimensions: 78x59x56 cm (LxBxH), Weight:65 kg	✓
2019-08-18 18:24:25.0723	37:3E:7A:C5:11:08_Alias	<a href="#">1234567804</a>	John	Pieces: 1, Dimensions: 76x37x23 cm (LxBxH), Weight:67 kg, (alibi number=547)	✓
2019-08-18 18:24:20.0210	Warehouse_I	<a href="#">7123456705</a>	Axel	Pieces: 1, Dimensions: 54x15x35 cm (LxBxH), Weight:8756 kg	✓
2019-08-18 18:24:14.0543	28:34:8B:5D:B3:12_Alias	<a href="#">0098765403</a>	Sandra	Pieces: 1, Dimensions: 78x32x56 cm (LxBxH), Weight:8589 kg	✓
2019-08-18 18:24:08.0600	Warehouse_I	<a href="#">7123456704</a>	Axel	Pieces: 1, Dimensions: 23x45x89 cm (LxBxH), Weight:65 kg	✓
2019-08-18 18:24:02.0927	Warehouse_I	<a href="#">7123456703</a>	Axel	Pieces: 1, Dimensions: 75x89x57 cm (LxBxH), Weight:6453 kg	✓
2019-08-18 18:23:56.0458	37:3E:7A:C5:11:08_Alias	<a href="#">1234567803</a>	John	Pieces: 1, Dimensions: 65x46x46 cm (LxBxH), Weight:75 kg, (alibi number=456)	✓
2019-08-18 18:23:41.0616	Warehouse_I	<a href="#">7123456702</a>	Axel	Pieces: 1, Dimensions: 134x75x65 cm (LxBxH), Weight:45 kg	✓
2019-08-18 18:23:32.0684	28:34:8B:5D:B3:12_Alias	<a href="#">1234567802</a>	John	Pieces: 1, Dimensions: 154x54x68 cm (LxBxH), Weight:57 kg, (alibi number=234)	✓
2019-08-18 18:10:17.0957	28:34:8B:5D:B3:12_Alias	<a href="#">0098765402</a>	Sandra	Pieces: 1, Dimensions: 134x67x68 cm (LxBxH), Weight:456 kg	✓
2019-08-18 18:10:03.0488	Warehouse_I	<a href="#">7123456701</a>	Axel	Pieces: 1, Dimensions: 123x57x86 cm (LxBxH), Weight:78 kg	✓

Figure 8 Message Log

The following data is persisted in the message log on receipt of any message:

- **Timestamp**, the timestamp of the receipt of the message by the CDC. It's explicitly not the timestamp of the time the operator registered the dimensional data. The latter is written into the CSV file.
- **Alias**, the configured alias for the Handheld/PDA device registering the dimensional and weight data.
- **Con Note Id**, the unique identifier (barcode) of a pallet/parcel. The Con Note Id is a hyperlink to the [Message Detail Page](#).
- **Operator Id**, the alias sent by the handheld/PDA representing the user of the device.
- **Registration Data**, an abbreviated representation of the data captured by the handheld/PDA
- **Photos**, a flag indicating if one or more photos were received.

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*Message Detail Page*

---

The message detail page displays the data captured by the CHECKMATE app that is received by the CDC.

DASHBOARD REPORTING LOGGING ~ ADMINISTRATION ~ Administrator ~  

## Message Log Detail

[Message Log](#) / Message Log Detail

Send Email

Download as PDF

### Parcel/Pallet

<b>Date Registered</b>	24-07-2019
<b>Time Registered</b>	14:39
<b>Con Note ID</b>	7123456710
<b>Barcode</b>	 7123456710
<b>Dimensions[Weight]</b>	Pieces: 1, Dimensions: 54x67x75 cm (LxBxH), Weight:568 kg

### Photos



10:0C:6E:D2:11:E6\_7123456710\_PhotoOne

Download as PDF

The data and photos shown on the page can be saved and downloaded as a PDF:

- Click DOWNLOAD AS PDF
- Specify required action on downloaded PDF (Open or Save)

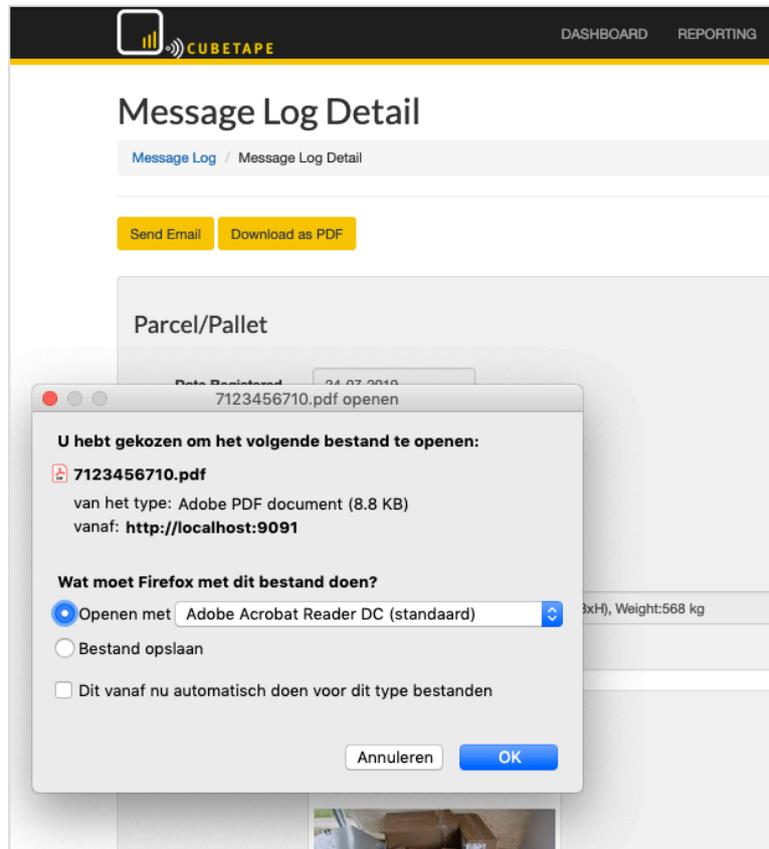
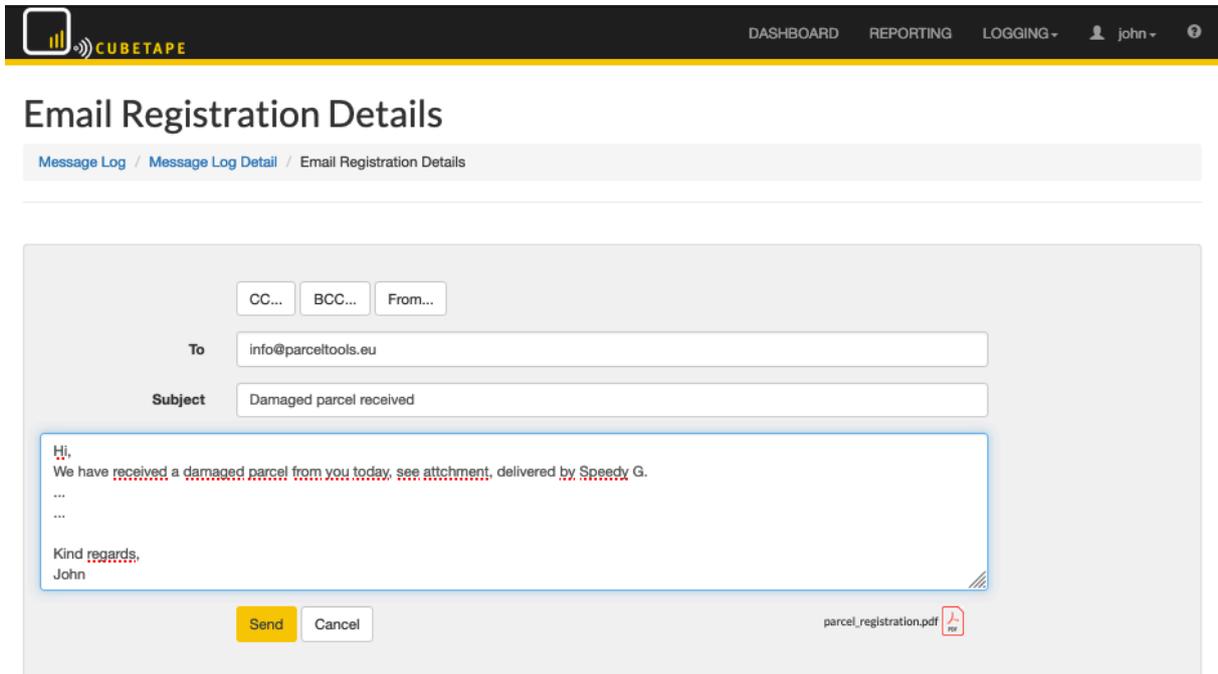


Figure 9 Download as PDF

## Send Email

The message detail information can be send using email to anyone to would like to inform about the receipt, see Figure 10



The screenshot shows the CUBETAPE web interface. At the top, there is a navigation bar with 'DASHBOARD', 'REPORTING', 'LOGGING', and a user profile 'john'. Below the navigation bar, the page title is 'Email Registration Details'. A breadcrumb trail shows 'Message Log / Message Log Detail / Email Registration Details'. The main content area contains an email composition form with the following fields:

- CC...**, **BCC...**, **From...** (dropdown menus)
- To:** info@parceltools.eu
- Subject:** Damaged parcel received
- Body:** Hi,  
We have received a damaged parcel from you today, see attachment, delivered by Speedy G.  
...  
Kind regards,  
John
- Buttons:** Send (yellow), Cancel (grey)
- Attachment:** parcel\_registration.pdf (with a PDF icon)

Figure 10 Send registration details via email

**IMPORTANT:** this functionality requires the Email/SMTP server to be configured, see [Email/SMTP Settings](#)

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## Reporting

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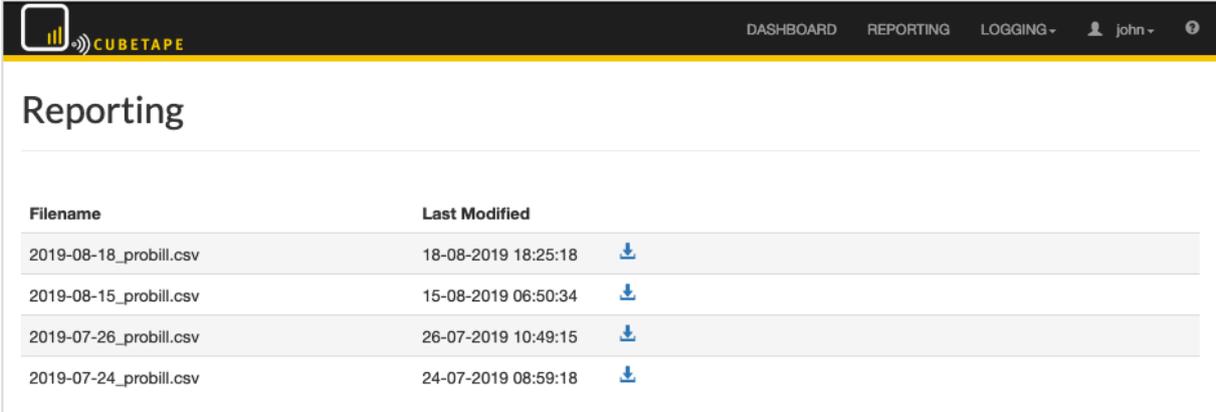
Reporting provides an overview of all created CSV files containing the dimensional data recordings of Cubetape devices. Each listed CSV file can be downloaded and deleted from here.

### *Download CSV-File*

---

To download a CSV file perform the following steps:

- Click the **REPORTING** menu
- Click **DOWNLOAD**, see Figure 11



Filename	Last Modified	
2019-08-18_probill.csv	18-08-2019 18:25:18	<a href="#">↓</a>
2019-08-15_probill.csv	15-08-2019 06:50:34	<a href="#">↓</a>
2019-07-26_probill.csv	26-07-2019 10:49:15	<a href="#">↓</a>
2019-07-24_probill.csv	24-07-2019 08:59:18	<a href="#">↓</a>

Figure 11 Reporting

- A popup window will appear asking if you will open or download the file. When choosing to open the file you can select the editor of your choice, like for example Microsoft Excel.

### *Delete CSV-File*

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To delete a CSV file the user should have administrator privileges, see [Update User](#) to change user privileges or see [Reporting – Delete CSV file](#) on how to delete a CSV file using the CDC web interface.

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## User Profile

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To access CDC web interface, you need to login with a **Username** and **Password**.

The administrator **Username** is *Administrator* and the **Password** is *manage*.

### *Logout*

---

Through the **User** menu a user can **Logout** when he is logged in.

### *Change Password*

---

Every user, except for the *Administrator* user can change their password.

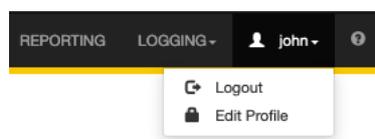


Figure 12 User profile

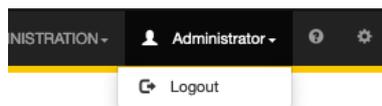


Figure 13 Administrator User profile

---

## Help

---

The help menu provides access to several resources that provide information on how to use the CHECKMATE Data Collector.

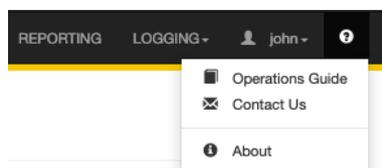


Figure 14 Help menu

### *Operations Guide*

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This manual can be accessed through the **Operations Guide** menu item of the help menu.

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*Contact Us*

---

Through the **Contact Us** menu item you can send an email to the CHECKMATE Data Collector Support team.

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*About*

---

The about page displays the version of the installed CHECKMATE Data Collector.

It also displays the IP-address(es) of the CDC. This information is useful when configuring the handheld/PDA device, see Figure 15.

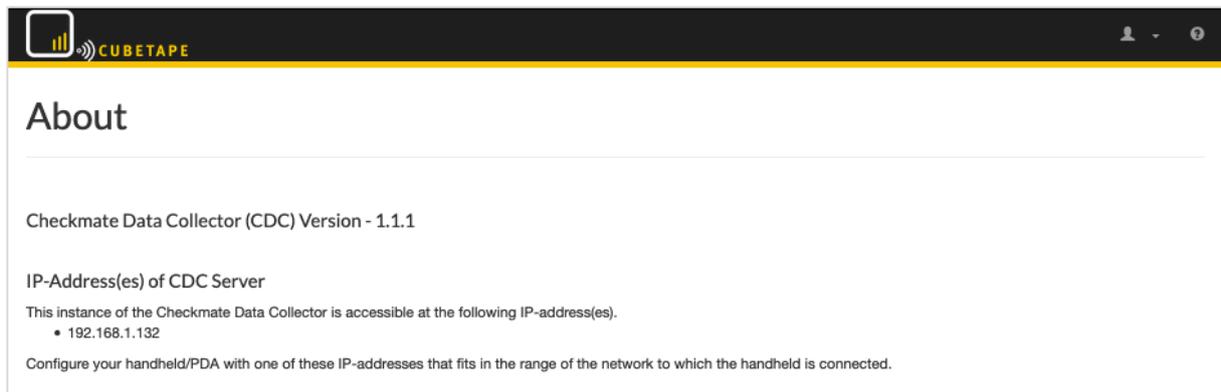


Figure 15 CDC About page

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## Administrative Tasks

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This section describes the following Administrative tasks for the CHECKMATE Data Collector:

- User Management**
- License Management**
- Device Management**
- Settings**
- Logging Configuration**
- Logging Archive**
- Reporting – Delete CSV**
- Restart/Stop Server**

*To perform an Administrative task, you need to be logged in to the CDC as **Administrator**.*

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### User Management

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As an Administrator you can create new users which can login to CDC web interface.

User Management provides the following functionality:

- Show Registered Users
- Add User
- Update User
- Delete User

The different functions are described in the following sections.

### Show Registered Users

To see which users are registered, perform the following step:

- Click the **ADMINISTRATION/User Management** menu (Figure 16)

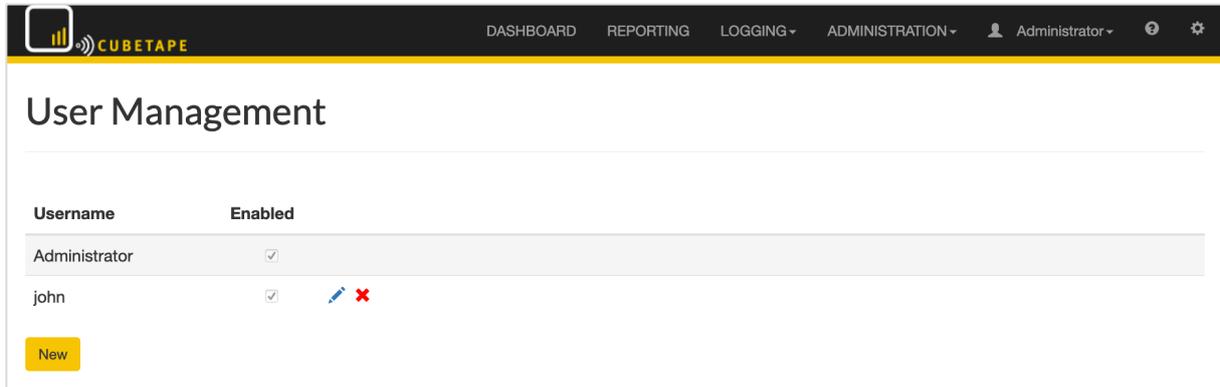


Figure 16 User Management - Registered Users Overview

### Add User

To add a new user, perform the following steps:

- Click the **ADMINISTRATION/User Management** menu (Figure 16)
- Click **NEW**, see Figure 17

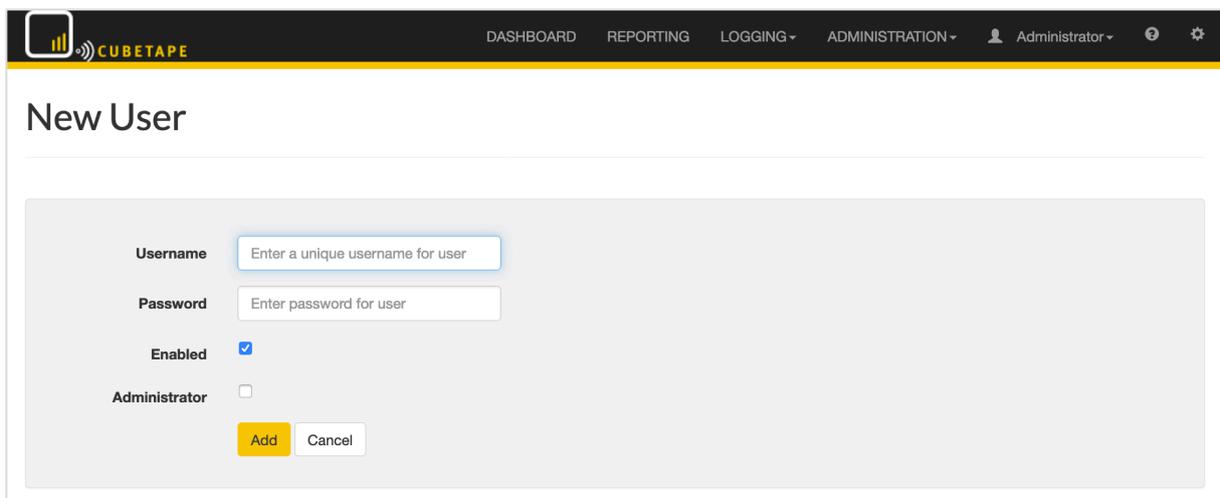


Figure 17 New User

- Enter the required user data:
  - **Username**, the username has to be unique.
  - **Password**, there are no restrictions on the length and/or content of the password.
  - **Enabled**, should the user be enabled for logging in to the CDC web interface or not (yet). Checked is yes
  - **Administrator**, should the user have Administrator privileges. Checked is yes.
- Click ADD to add the user to the CDC.

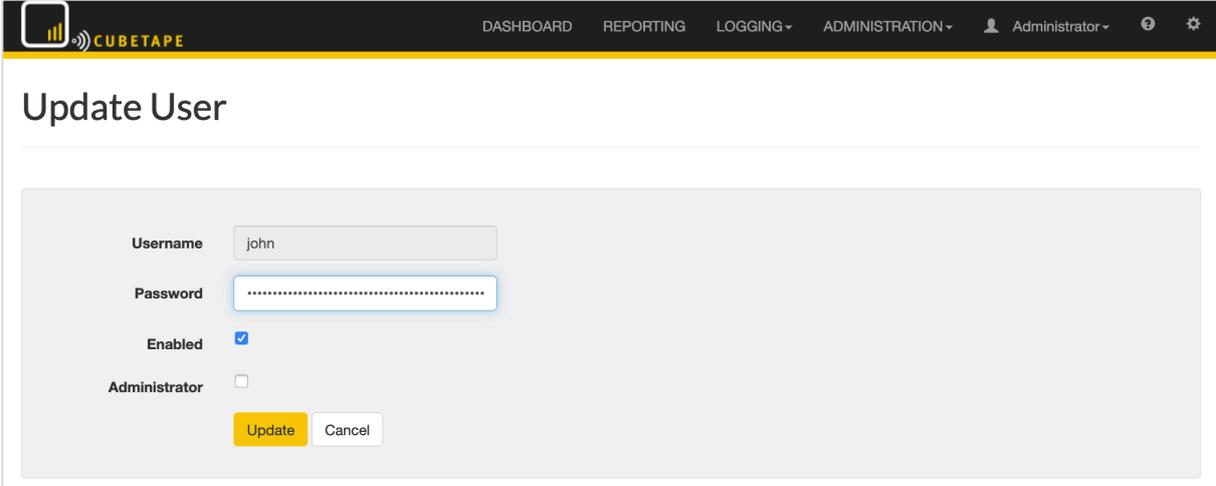
### Update User

The following attributes can be updated for any user except for the user *Administrator*.

*It's not possible to update any attribute of or disable the **Administrator** user!*

To update an existing user, perform the following steps:

- Click the **ADMINISTRATION/User Management** menu (Figure 16)
- Click UPDATE (✎) for the user to update, see Figure 18



The screenshot shows the 'Update User' interface in the CUBETAPE application. The top navigation bar includes 'DASHBOARD', 'REPORTING', 'LOGGING', 'ADMINISTRATION', and a user profile 'Administrator'. The main content area is titled 'Update User' and contains a form with the following fields:

- Username:** A text input field containing the value 'john'.
- Password:** A password input field with masked characters (dots).
- Enabled:** A checkbox that is checked.
- Administrator:** A checkbox that is unchecked.

At the bottom of the form, there are two buttons: a yellow 'Update' button and a white 'Cancel' button.

Figure 18 Update User

- Update user data:
  - **Password**, there are no restrictions on the length and/or content of the password.
  - **Enabled**, when the user be enabled for logging in to the CDC web interface or not (yet). Checked is yes
  - **Administrator**, when the user should have Administrator privileges. Checked is yes
- Click UPDATE

---

## Delete User

---

*It's not possible to delete the **Administrator** user!*

To delete a user, perform the following steps:

- Click the **ADMINISTRATION/User Management** menu (Figure 16)
- Click **DELETE (X)** for the user you would like to delete, see Figure 19

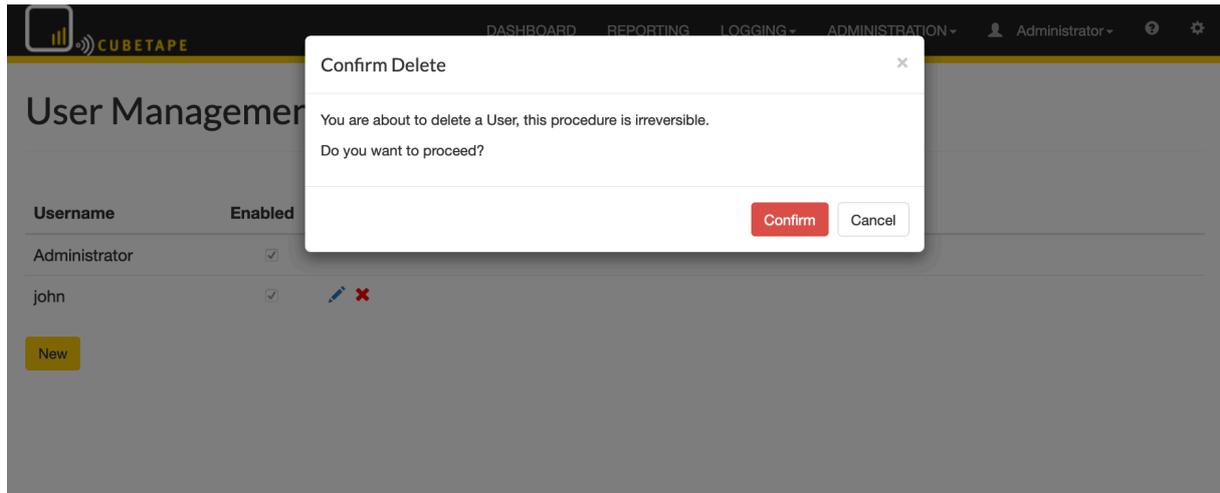


Figure 19 Delete User

- Click **CONFIRM** if you want to proceed with the delete or click **CANCEL** to return to the overview (Figure 16)

---

## License Management

---

The CHECKMATE Data Collector requires a valid license for accepting messages from the CHECKMATE app. This license is sent to you by your Parceltools Sales Representative.

License Management consists of the following functionality:

- Show license information
- Activate license by CDC software over internet
- Manual license activation

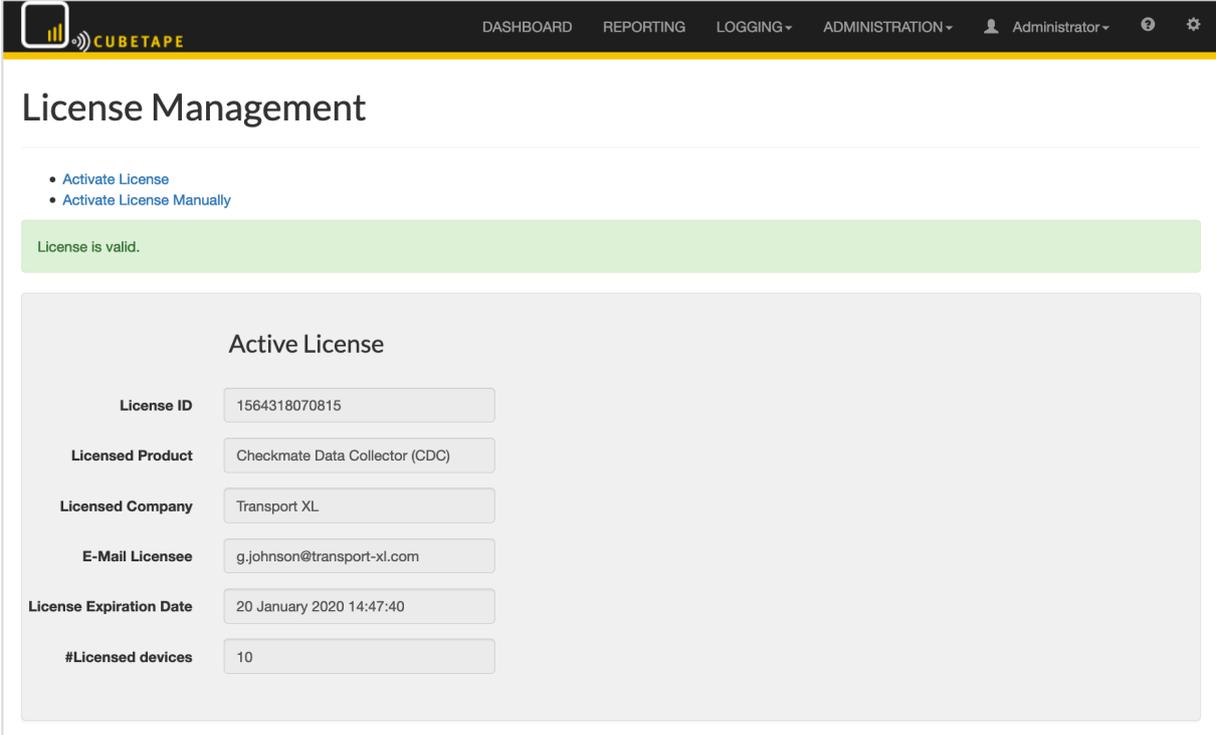
---

*Show License Information*

---

To show information about the current activated license perform the following steps:

- Click **ADMINISTRATION/License Management**
- The License Management page is shown



The screenshot displays the 'License Management' interface. At the top, there is a navigation bar with the CUBETAPE logo and menu items: DASHBOARD, REPORTING, LOGGING, ADMINISTRATION, and a user profile for 'Administrator'. Below the navigation bar, the page title 'License Management' is centered. A green notification bar states 'License is valid.' Below this, there are two links: 'Activate License' and 'Activate License Manually'. The main content area is titled 'Active License' and contains a table of license details.

Active License	
License ID	1564318070815
Licensed Product	Checkmate Data Collector (CDC)
Licensed Company	Transport XL
E-Mail Licensee	g.johnson@transport-xl.com
License Expiration Date	20 January 2020 14:47:40
#Licensed devices	10

Figure 20 Active License Information

---

*Activate License through CDC software over Internet*


---

The CDC license can be activated from the CHECKMATE Data Collector software if the PC/Server has access to the internet, by performing the following steps:

- Click **ADMINISTRATION/License Management**
- The License Management page is shown, see Figure 20
- Click **Activate License**
- The license activation page is shown

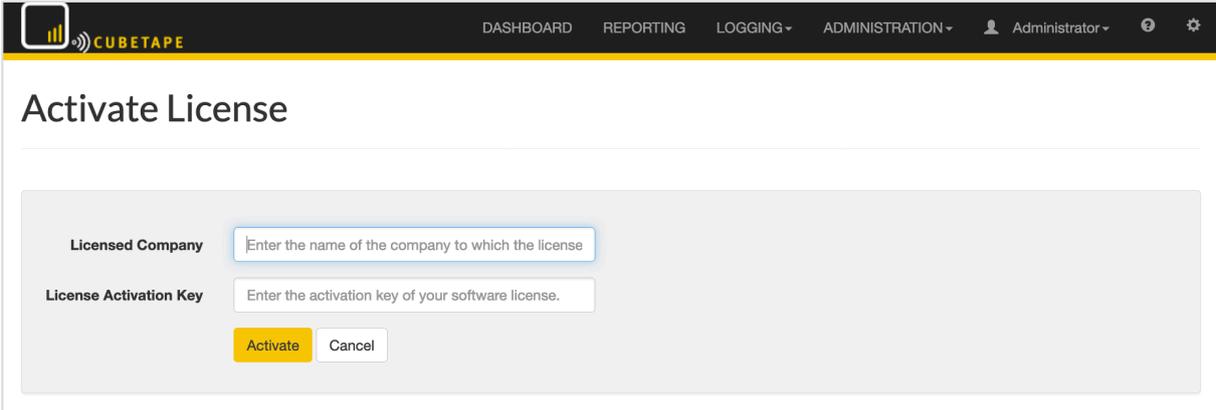


Figure 21 License activation page

- Enter the following information:
  - **Licensed Company** – *your company name*
  - **License Activation Key** – *the activation key*

This information is provided to you in the License Response document you have received from your Parceltools Sales representative.

- Click **ACTIVATE**
- The License Administration page is shown, see [Show License Information](#)

---

*Manual License Activation*


---

The CDC license can be activated manually from any PC/Server having internet access and a browser, by performing the following steps:

- Start Browser
- Type in the URL: <http://server-ip-address:9090/login> where *server-ip-address* is the IP address of the PC/Server having the CDC software installed.

- Click **ADMINISTRATION/License Management**
- The License Management page is shown, see Figure 20
- Click **Manual License Activation**

The manual license activation page is shown, see Figure 22

**Manual License Activation**

- [Retry automatic activation of license key](#)

**Activation Request (copy this)**

```
3128673ff6151eaa6b06bccba8c2b11bc76f541cac011582bee7d8a54bdb
057eca25c0f5f70e82851447ffa408796726d495ae2f356225a8af83f0b6
d8a4692966eada02334501bef034bb8714ffe998869ba8195aa334d25ae6
11fecabecf6c883ca43fc2cd7fdac20c512ab36f1491f2fa77a62a55369f
310dbab76df1227d9d4b386655404cb971467a25df3b07fd915cef2108f6
e263d9ba2d2f3b39b63fa05c8d7a0c7c4fd727f41e31807a2719cb074407
92c27159420cad4d18f675b3
```

[Click here to go to the website for manual activating the software license](#)

**License Text**

Copy the content of the received license.l4j file here.

Figure 22 Manual license activation page

- Copy the content of **Activation Request (copy this)**;
- Click **CLICK HERE TO GO TO THE WEBSITE FOR MANUAL ACTIVATING THE CDC LICENSE**, see Figure 23. On this website you must paste the copied data in the **License Activation Request Text:** field
- Click **SUBMIT**

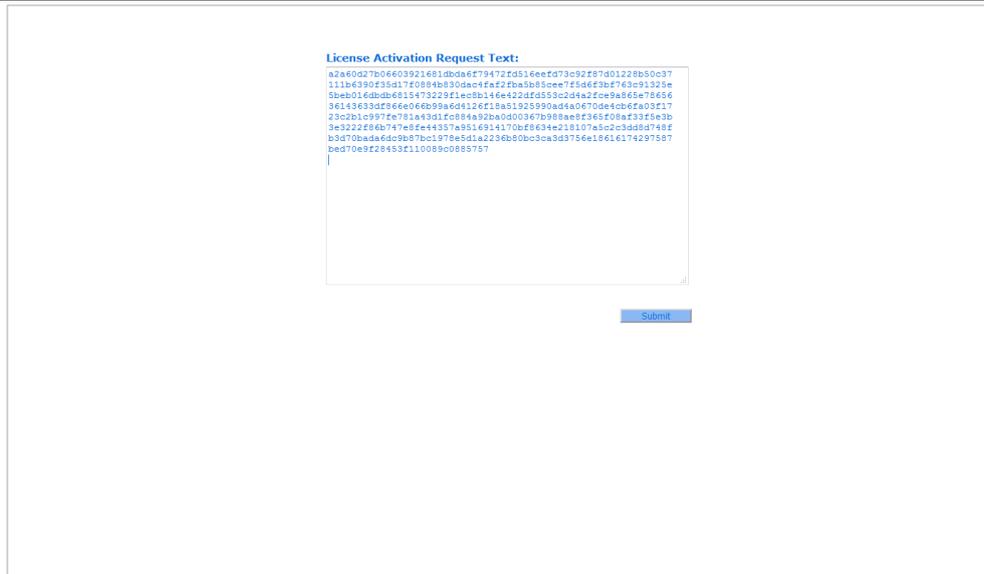


Figure 23 Website for manual activation of CDC License

- A file is created `License.l4j`
- The content of this file needs to be copied into the **License Text** field of the CDC Manual License Activation page, see Figure 22
- Click UPDATE
- The License Management page is shown, see [Show License Information](#)

## Device Management

Device Management provides functionality for the maintenance of device aliases for the Handheld/PDA devices capturing the dimensional and weighing data from respectively a Cubetape and optional a (mobile) weighing scale. Device Aliases are used by the CDC web interface to refer to a Handheld/PDA through a logical name instead of an ID.

Device Management provides the following functionality:

- Show Registered Device Aliases
- Create Device Alias
- Update Device Alias
- Delete Device Alias

The different functions are described in the following sections.

### Show Registered Device Aliases

To see all registered device aliases, perform the following steps:

- Click the **ADMINISTRATION/Device Management** menu

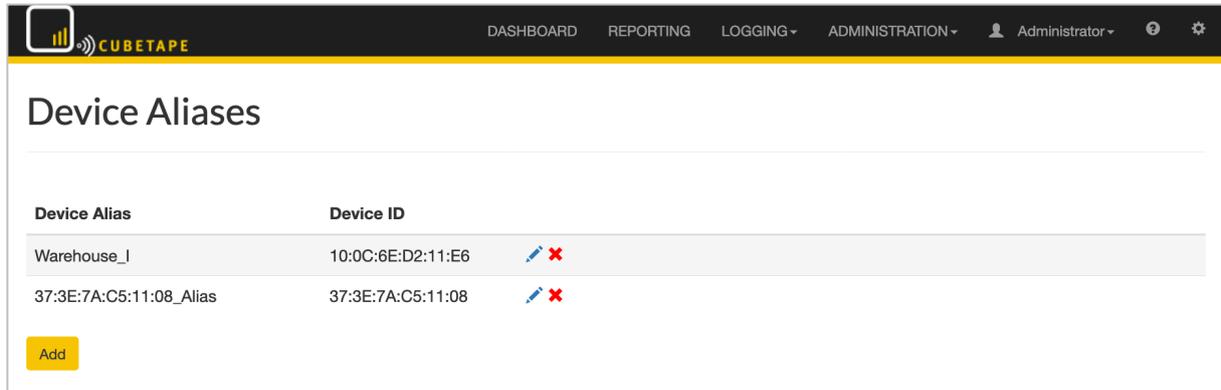


Figure 24 Overview registered devices

### Add Device Alias

To register a new device alias, perform the following steps:

- Click the **ADMINISTRATION/Device Management** menu (Figure 24)
- Click **ADD**

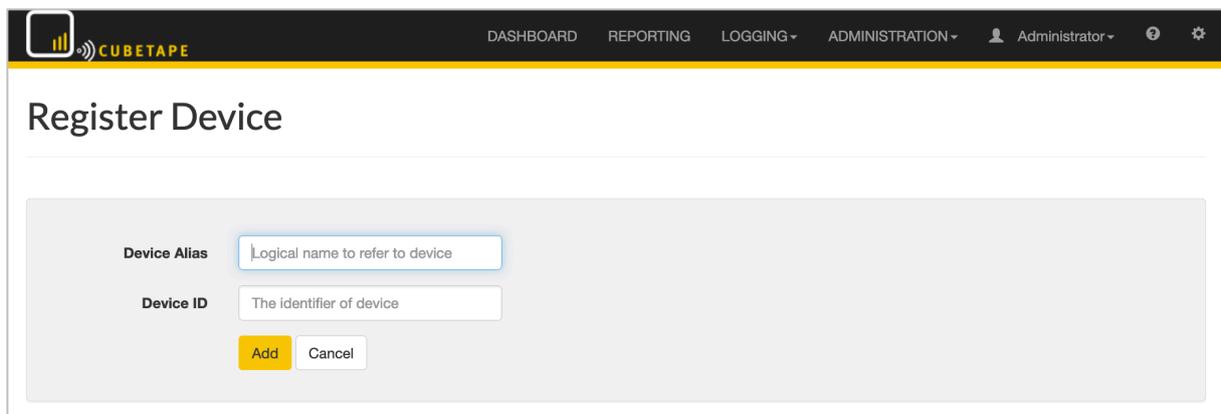


Figure 25 Register Scale

- Enter the following necessary data:
  - **Device Alias**, any logical name that refers to the Handheld/PDA device.
  - **Device ID**, the device id is the MAC Address / Hardware-ID of the Handheld/PDA. The ID is sent with every Probill message, see [General Overview CHECKMATE Data Collector](#)
- Click **ADD**.

### Automatic Creation of a Device Alias

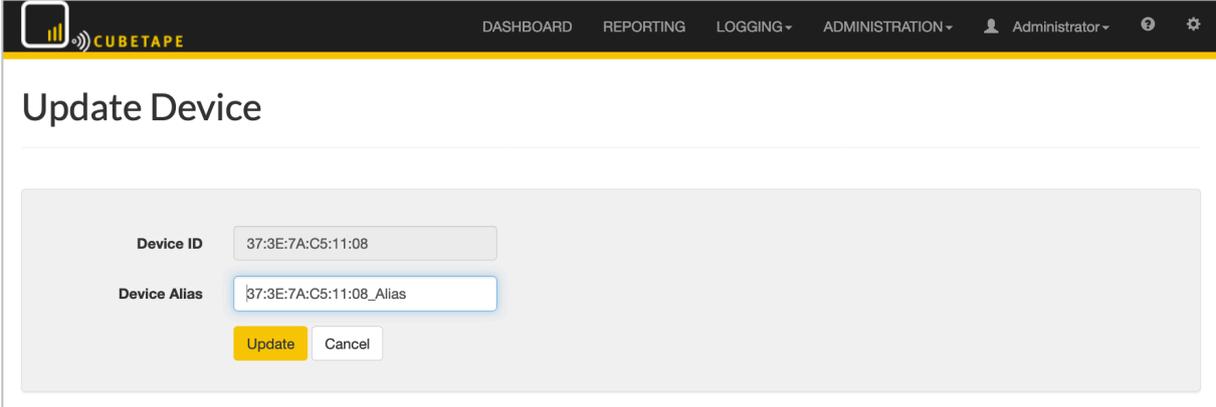
Whenever a Probill message is received by the CDC software, the device id of the Handheld/PDA is used to look up its device alias. If the device alias is not yet registered a

default alias is created having a name in the following format: *device-id\_Alias*, where device-id is replaced by the actual id of the Handheld/PDA, e.g. 37:3E:7A:11:08\_Alias.

### Update Device Alias

To update a device alias, perform the following steps:

- Click the **ADMINISTRATION/Device Management** menu (Figure 24)
- Click UPDATE (✎) for the device that needs to be updated



The screenshot shows the 'Update Device' form in the CUBETAPE interface. The form has two input fields: 'Device ID' with the value '37:3E:7A:C5:11:08' and 'Device Alias' with the value '37:3E:7A:C5:11:08\_Alias'. Below the input fields are two buttons: 'Update' (yellow) and 'Cancel' (white).

Figure 26 Update Scale

- Update the following data:
  - **Device Alias**, change the actual value for the device alias in any logical name that refers to the Handheld/PDA.
- Click UPDATE.

### Delete Device Alias

To delete a device alias, perform the following steps:

- Click the **ADMINISTRATION/Device Management** menu (Figure 24)
- Click DELETE (✖) for the device alias you would like to delete

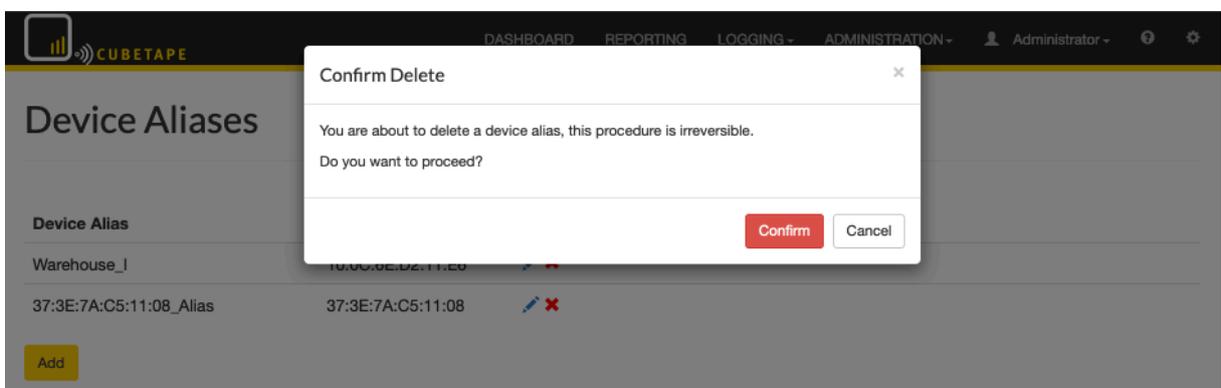
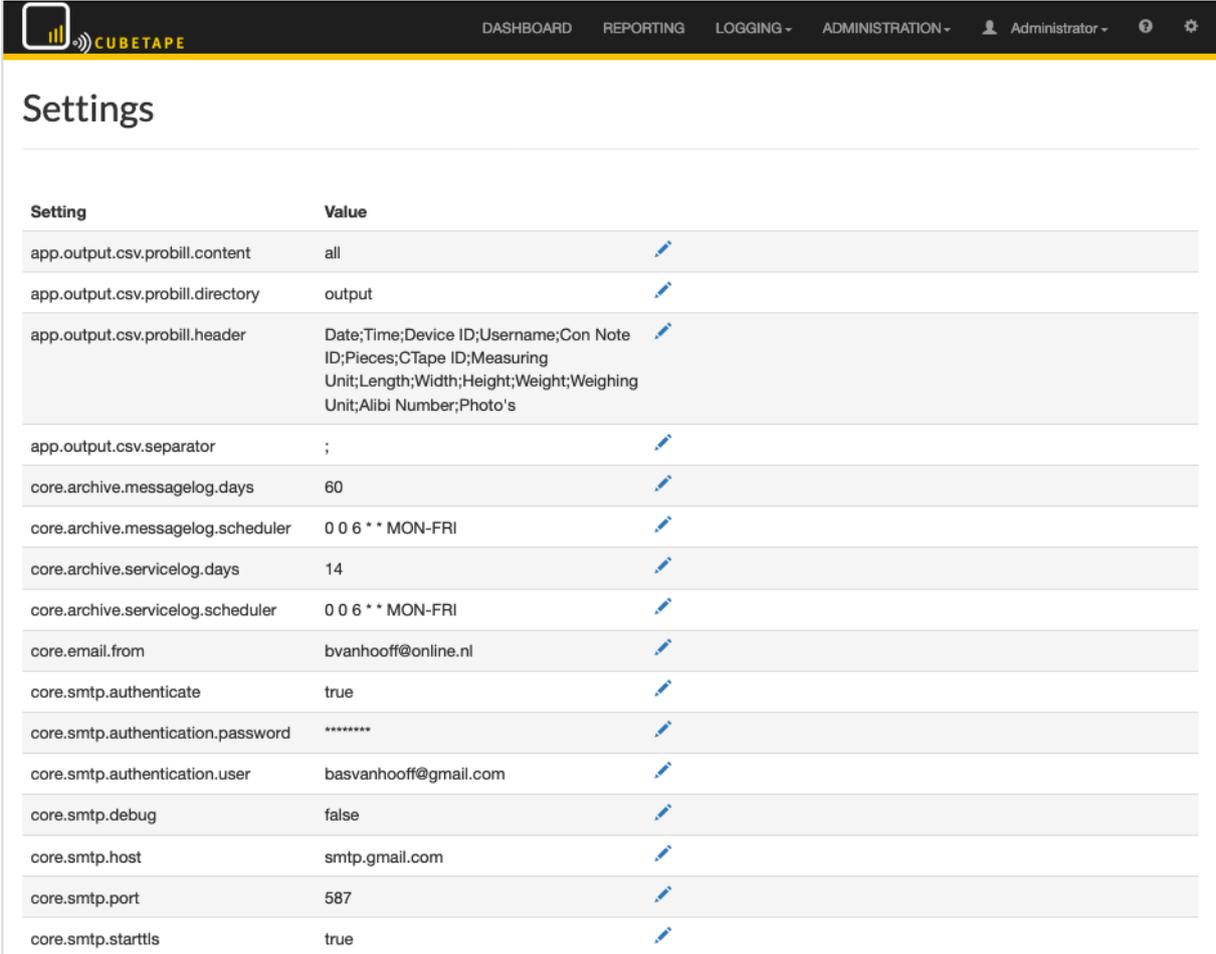


Figure 27 Delete Device

- Click CONFIRM if you want to proceed with the delete, see Figure 27 or click CANCEL to return to the overview (Figure 24).

## Settings

The behavior of the CDC server can be controlled through settings, which are defined in the file `./config/core.properties`. The value of a setting can be changed through the CDC web interface **ADMINISTRATION/Settings** (Figure 28) by clicking on UPDATE (✎)



Setting	Value	
app.output.csv.probill.content	all	
app.output.csv.probill.directory	output	
app.output.csv.probill.header	Date;Time;Device ID;Username;Con Note ID;Pieces;CTape ID;Measuring Unit;Length;Width;Height;Weight;Weighing Unit;Alibi Number;Photo's	
app.output.csv.separator	;	
core.archive.messagelog.days	60	
core.archive.messagelog.scheduler	0 0 6 * * MON-FRI	
core.archive.servicelog.days	14	
core.archive.servicelog.scheduler	0 0 6 * * MON-FRI	
core.email.from	bvanhooff@online.nl	
core.smtp.authenticate	true	
core.smtp.authentication.password	*****	
core.smtp.authentication.user	basvanhooff@gmail.com	
core.smtp.debug	false	
core.smtp.host	smtp.gmail.com	
core.smtp.port	587	
core.smtp.starttls	true	

Figure 28 CDC Parameters

---

*CSV settings*

---

In this section the settings are explained that control the CSV output.

*app.output.csv.probill.content*

The setting **app.output.csv.probill.content** specifies what the content of the CSV files will be. The following values are allowed:

- *all*, every day a new CSV file is created containing all probill messages send by the CHECKMATE app from any Handheld/PDA device to the CDC software;

Output filename format: *yyyy-MM-dd\_probill.csv*

- *device*, every day new CSV file is created containing for each Handheld/PDA device that sends probill messages to the CDC software;

Output filename format: *yyyy-MM-dd\_probill\_device-alias\_probill.csv*

- *user*, every day new CSV file is created containing for each Operator using the Handheld/PDA device that sends probill messages to the CDC software;

Output filename format: *yyyy-MM-dd\_probill\_user-name\_probill.csv*

*app.output.csv.probill.directory*

The setting **app.output.csv.probill.directory** specifies the directory where the CSV files are being persisted. The directory specification can be a:

- relative file path, which is relative to the location where the CDC is installed,  
e.g. *./output* (default value)
- absolute file path  
e.g. *C:\CDC-CSV*
- a UNC path (Universal Naming Convention), which is the naming system used in Microsoft Windows for accessing shared network folders  
e.g. *\\host-name\share-name\file\_path*

*app.output.csv.probill.header*

The setting **app.output.csv.probill.header** specifies the header that will be written to the CSV file once it's being created (daily, when the first probill message is received)

*app.output.csv.probill.separator*

The setting **app.output.csv.separator** defines the CSV field delimiter that the CDC uses to format a Probill record to write to the CSV-file.

---

## Logging Settings

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### [core.archive.messagelog.days](#)

The setting **core.archive.messagelog.days** specifies after how many days a message log record after it has been registered is archived. The service for archiving is scheduled automatically using the schedule as defined by parameter

### [core.archive.messagelog.scheduler](#)

### [core.archive.messagelog.scheduler](#)

The setting **core.archive.messagelog.scheduler** specifies a [cron](#) configuration for the message log archive job. Cron is a time-based job scheduler software utility. The default **cron** configuration for the message log archive job is `0 0 6 * * MON-FRI` which means that every Monday till Friday the job will run at 6:00 AM and zero seconds.

### [core.archive.servicelog.days](#)

The setting **core.archive.servicelog.days** specifies after how many days a service log record after it has been created is archived. The service for archiving is scheduled automatically using the schedule as defined by parameter

### [core.archive.servicelog.scheduler](#)

### [core.archive.servicelog.scheduler](#)

The setting **core.archive.servicelog.scheduler** specifies a [cron](#) configuration for the service log archive job. Cron is a time-based job scheduler software utility. The default **cron** configuration for the service log archive job is `0 0 6 * * MON-FRI` which means that every Monday till Friday the job will run at 6:00 AM and zero seconds.

---

## Email/SMTP Settings

---

The CDC software is able to send emails to anyone willing to receive a PDF containing the details of a received message, like the dimensions of the parcel/pallet, the weight and photos. The CDC software may only send mail when it's properly configured. A proper configuration means that an SMTP server needs to be configured, contact your Mail Service Provider to get the required information.

**IMPORTANT:** changing the SMTP settings requires a restart of the CDC software, see [Restart/Stop Server](#)

### [core.email.from](#)

The setting **core.email.from** specifies the email address of the sender of the email. Everyone using the email functionality for sending a PDF with the received probill message content will use by default this email address as the sender of the email. The default value can be overwritten the moment an email is sent.

### [core.smtp.authenticate](#)

Does the configured SMTP server ([core.smtp.host](#)) require authentication. Possible values are:

- 
- *true*, specify the required credentials, see [core.smtp.authentication.user](#) and [core.smtp.authentication.password](#).
  - *false*, leave user and password settings empty.

#### core.smtp.authentication.password

The setting **core.smtp.password** specified the password required for the authentication with the configured SMTP server. This is required when the SMTP server requires authentication([core.smtp.authenticate](#)). Specify the password as provided to you by your Mail Service Provider.

#### core.smtp.authentication.user

The setting **core.smtp.user** specified the username required for the authentication with the configured SMTP server. This is required when the SMTP server requires authentication([core.smtp.authenticate](#)). Specify the username as provided to you by your Mail Service Provider.

#### core.smtp.debug

The setting **core.smtp.debug** specifies if debug information should be logged in the server log whenever an email is send. Allowed values are *true* and *false*

#### core.smtp.host

The setting **core.smtp.host** is used to specify the IP-address or DNS name of the SMTP server. Specify the DNS name as provided to you by your Mail Service Provider.

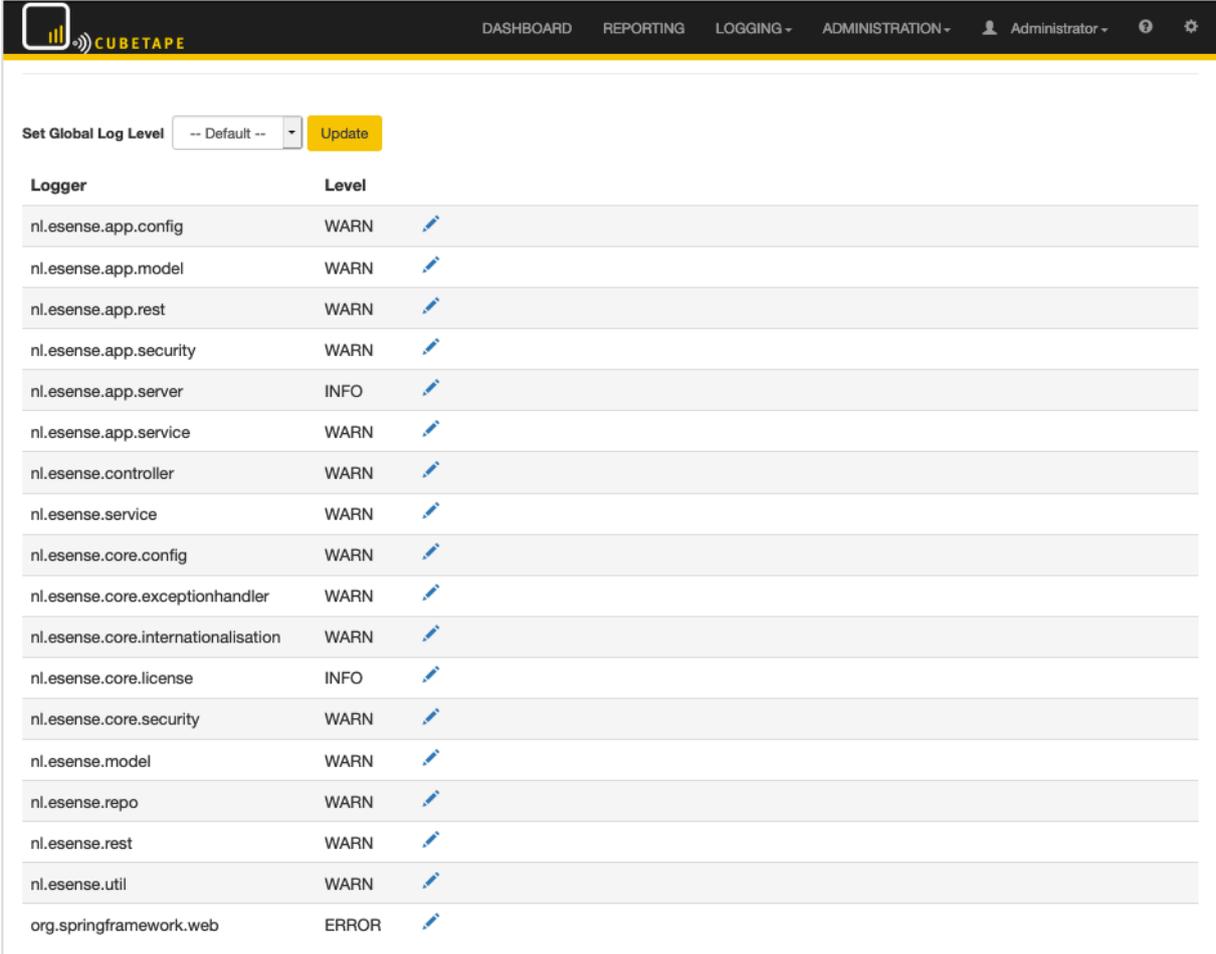
#### core.smtp.port

The setting **core.smtp.port** is used to specify the port number of the SMTP server that will accept the email messages. Specify the port number as provided to you by your Mail Service Provider.

#### core.smtp.starttls

The setting **core.smtp.starttls** is used to specify that the connection with the specified SMTP server ([core.smtp.host](#)) will be secured using SSL or TLS. Allowed values are *true* or *false*. Specify the value that has been provided to you by your Mail Service Provider.

## Logging Configuration



Logger	Level	
nl.esense.app.config	WARN	
nl.esense.app.model	WARN	
nl.esense.app.rest	WARN	
nl.esense.app.security	WARN	
nl.esense.app.server	INFO	
nl.esense.app.service	WARN	
nl.esense.controller	WARN	
nl.esense.service	WARN	
nl.esense.core.config	WARN	
nl.esense.core.exceptionhandler	WARN	
nl.esense.core.internationalisation	WARN	
nl.esense.core.license	INFO	
nl.esense.core.security	WARN	
nl.esense.model	WARN	
nl.esense.repo	WARN	
nl.esense.rest	WARN	
nl.esense.util	WARN	
org.springframework.web	ERROR	

Figure 29 CDC Logging Levels

The amount of information logged in the server log (**LOGGING/Server Log**) is depending on the configured logging level of the CDC. The default configuration of the logging level for the CDC is suitable for regular use of the CDC.

In the case of problems regarding the operation of the CDC, the logging level can be adjusted to produce more detailed logging information. The following logging levels are supported:

- ERROR, only log errors that occur
- WARN, log warnings and error messages
- INFO, log informational, warning and error messages
- DEBUG, log more detailed, informational, warning and error messages
- TRACE, log all messages that the CDC can write to the log.

## Logging Archive

The message log and the service log will grow overtime as a result of receiving and persisting messages. It's foreseen to automatically clean up these logs. Through settings, see [Logging Settings](#), one can specify the number of days the registrations has to be kept in de database of the CDC software..

If needed an archive operation can be executed manually **ADMINISTRATION/Logging Archive**.

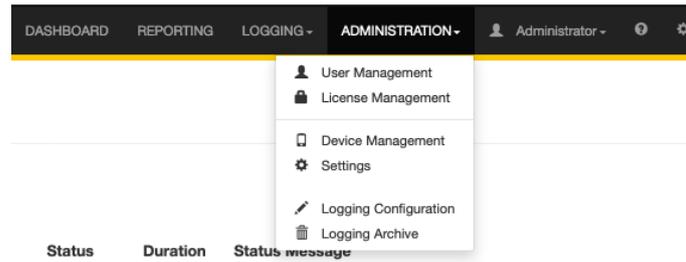


Figure 30 Logging Archive menu

To clean-up the message or the service log perform the following steps:

- Click the **ADMINISTRATION/Logging Archive** menu (Figure 30)
- Select a date via the calendar setting for deleting all records older than the specified date. The default date shown when activating the page is the date of the oldest registrations in the database.

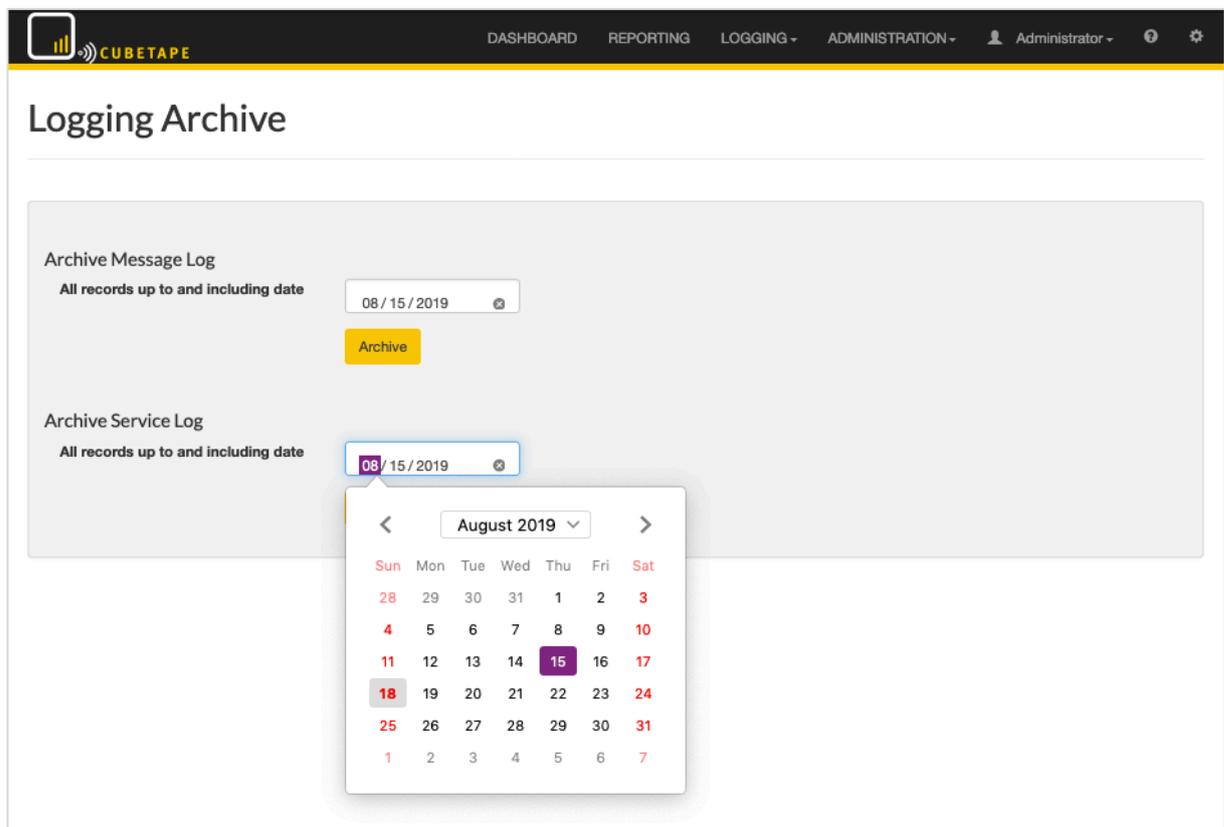


Figure 31 Manual archive of message and service log

- Click ARCHIVE to execute the clean-up.

## Restart/Stop Server

As an Administrator you can restart or stop the CHECKMATE Data Collector server from the CDC web interface.

A restart is typically done after a configuration change or after the activation of a new license key.

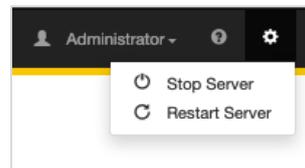


Figure 32 Restart/Stop CDC server

Before the server is stopped or restarted a confirmation of the requested operation is asked, see Figure 33.

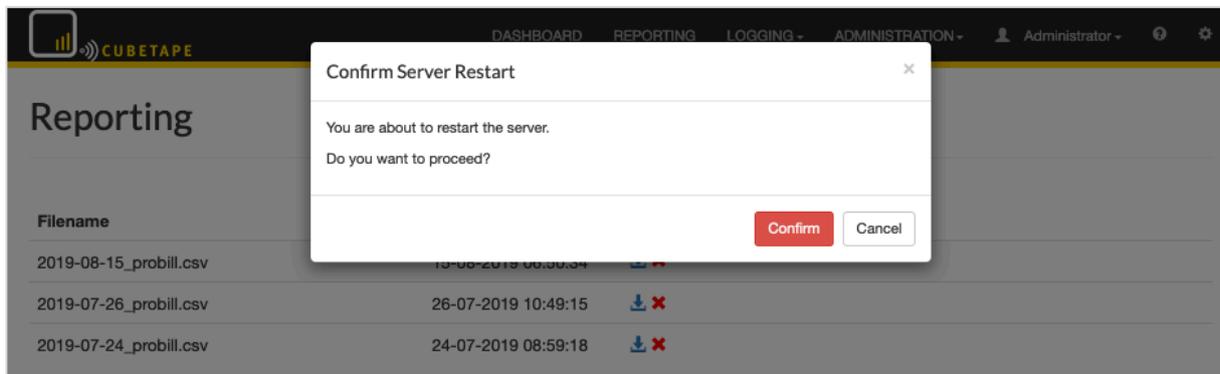


Figure 33 Confirm stop/restart server operation

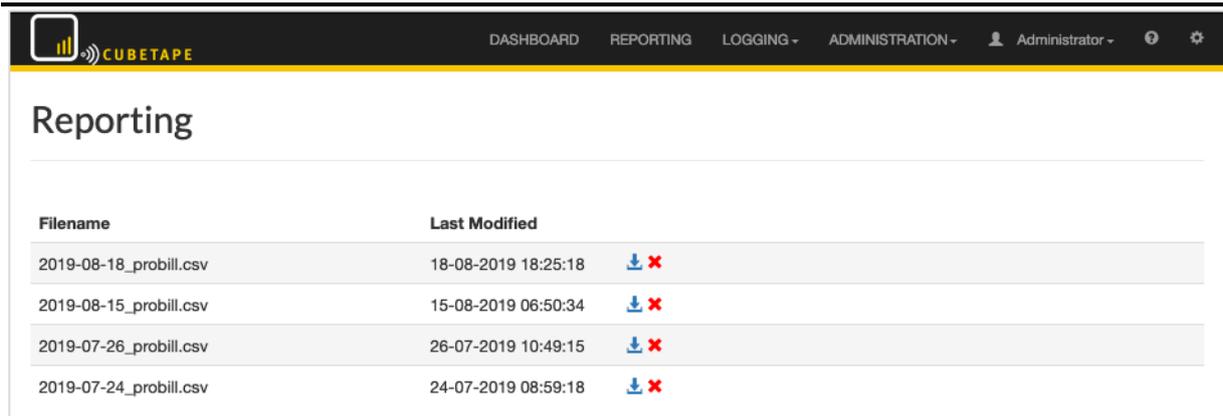
## Reporting – Delete CSV file

One can only delete CSV files if logged in as an Administrator.

### *Delete CSV-File*

To delete a CSV file, perform the following steps:

- Click the **REPORTING** menu
- Click DELETE (✘), see Figure 34.



The screenshot shows the CUBETAPE Reporting page. The table lists four CSV files with their filenames and last modified dates. Each row has a download icon (blue arrow) and a delete icon (red X).

Filename	Last Modified	
2019-08-18_probill.csv	18-08-2019 18:25:18	<a href="#">↓</a> <a href="#">✖</a>
2019-08-15_probill.csv	15-08-2019 06:50:34	<a href="#">↓</a> <a href="#">✖</a>
2019-07-26_probill.csv	26-07-2019 10:49:15	<a href="#">↓</a> <a href="#">✖</a>
2019-07-24_probill.csv	24-07-2019 08:59:18	<a href="#">↓</a> <a href="#">✖</a>

Figure 34 Delete CSV file

- Click CONFIRM if you want to proceed with the delete, see Figure 35 or click CANCEL to return to the overview (Figure 35)

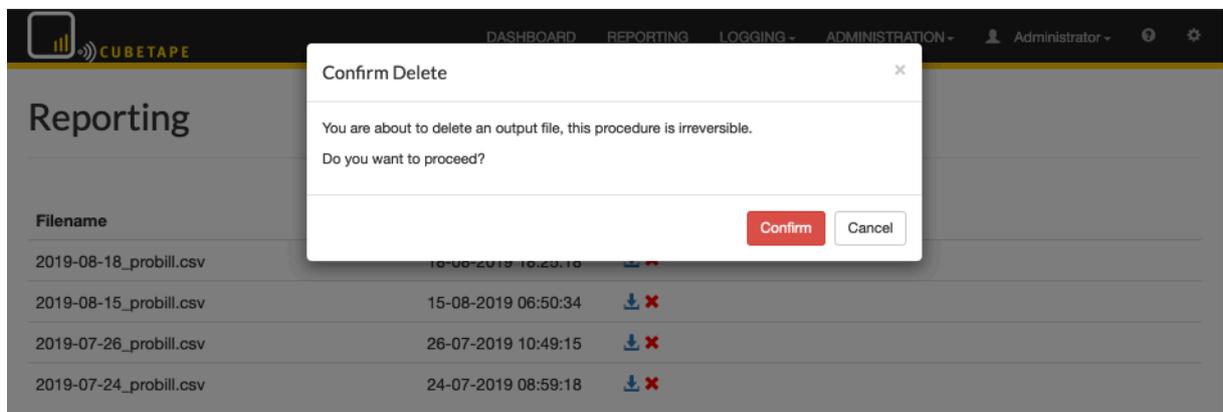


Figure 35 Confirm delete of CSV file

## Consult Logs

The CDC web interface has two logs for the Administrator, namely the server and the service log. Both logs can be consulted for problem solving. In a normal operation mode there is no need to consult these logs.

### Consult Server Log

The server log contains all CDC system messages, both information and errors. If the CHECKMATE Data Collector is not behaving in the expected way, then consult the Server Log to see if there is any error or other information that may help you in solving the issue.

To consult the server log, perform the following steps:

- Click the **LOGGING/Server Log**

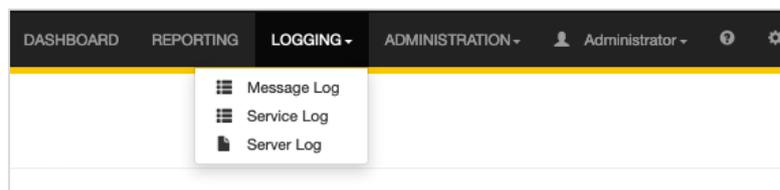


Figure 36 Server Log menu

- Click the pagination buttons to scroll through the server log.

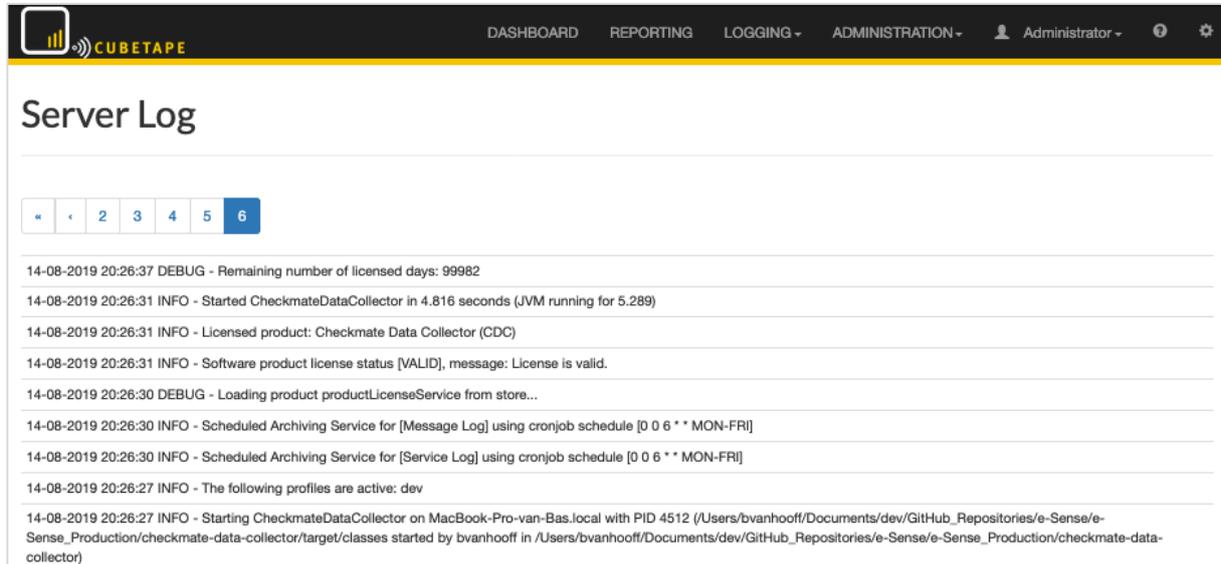


Figure 37 Server Log

The server log resides in the *logs* folder in the folder where the CDC is installed (default: *C:\Program Files (x86)\CHECKMATE Europe BV\Checkmate Data Collector*).

Each day a new server log file is created. The log files are kept for five days, then they will be discarded.

## Consult Service Log

The service log contains the service execution status of the services being executed by the CHECKMATE Data Collector.

To consult the service log, perform the following steps:

- Click the **LOGGING/Service Log**

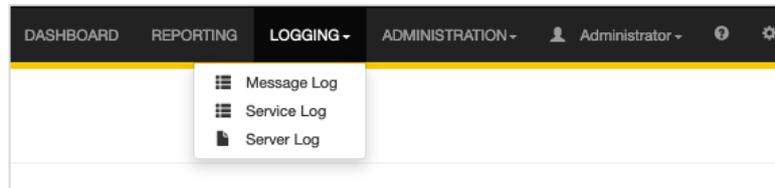


Figure 38 Service Log menu

- Click the pagination buttons to scroll through the service log.

 A screenshot of the 'Service Log' page in the CHECKMATE web application. The page displays a table of log entries. The table has columns for 'Timestamp', 'Endpoint', 'Alias', 'Status', 'Duration', and 'Status Message'. There are seven rows of data. The first row shows a successful 'ENDED' status. The second row shows a 'DUPLICATE' status with a warning triangle icon and a detailed message. The remaining rows show 'ENDED' statuses with various durations.
 

Timestamp	Endpoint	Alias	Status	Duration	Status Message
2019-08-18 18:10:17.0955	/rest/cdc/parcel	28:34:8B:5D:B3:12_Alias	ENDED	4 (msec)	
2019-08-18 18:10:07.0428	/rest/cdc/parcel	Warehouse_I	DUPLICATE ⚠	2 (msec)	Duplicate message Device[10:0C:6E:D2:11:E6] for parcel/pallet [7123456701].
2019-08-18 18:10:03.0486	/rest/cdc/parcel	Warehouse_I	ENDED	4 (msec)	
2019-08-18 18:09:55.0783	/rest/cdc/parcel	37:3E:7A:C5:11:08_Alias	ENDED	5 (msec)	
2019-08-18 18:09:48.0945	/rest/cdc/parcel	28:34:8B:5D:B3:12_Alias	ENDED	6 (msec)	
2019-08-18 18:09:39.0448	/rest/cdc/parcel	37:3E:7A:C5:11:08_Alias	ENDED	4 (msec)	
2019-08-18 18:09:27.0711	/rest/cdc/parcel	Warehouse_I	ENDED	34 (msec)	

Figure 39 Service Log

The Service Log resides in the database and grows when the CDC is accepting messages from CHECKMATE app.

The CHECKMATE Data Collector automatically executes a service log archive job according to the schedule specified by the parameter [core.archive.servicelog.scheduler](#).