1. Introduction	. 2
1.1 Benefits	. 2
1.2 How it works	. 2
1.3 Tachograph Compatibility	. 3
2. Requirements	. 4
2.1 For End Users	. 4
2.2 For Authorized Tachograph Services	. 4
2.3 For System Integrators	. 5
3. Mounting the RDU	. 5
3.1 The RDU Device	. 5
3.2 RDU LED Messages	. 6
3.3 Inserting SIM Card into the RDU	. 6
3.4 Setting up the Device	. 8
3.5 Mounting into the Vehicle	. 12
3.6 Front Download Button and LED	. 15
3.7 Firmware update	. 16
4. Using the RDU	. 18
4.1 Installing the TachoSafe RDU Manager Application	. 18
4.2 Opening or Starting the Application	. 20
4.3 Adding or Changing Company Card	. 22
4.4 Downloading Tachograph and Company Card	. 23
4.5 Scheduled Downloads	24
4.6 Downloading Tachograph in Front Download Mode	. 25
4.7 Status Logs	. 26
4.8 Accessing Downloaded Files	. 28
4.9 Making Copys of the Downloaded Data to TachoSAFE WEB	. 28
4.10 Disabling File Signature Check	. 29
5. Using Tachoo Speece	. 30
5.1 Accessing Analysis, Reports and Infringements on TachoSAFF WEB	. 30
5 2 Using TachoSafe Web Administration Mode	33
5.3 Creating New Company in Administration Mode	. 34
5.4 Adding new user	37
5.5 Status and Download Warnings in Administration Mode	. 38
5.6 GPRS/3G+ Traffics and Logs	40
6 Annendix: Abbreviations & Explanations	. 70 

## Introduction Benefits





"TachoSafe Remote Download GPRS" downloads remotely the digital tachograph. The remote download unit (RDU) is permanently installed on the truck and it is connected to the digital tachograph. The downloads are initiated manually or by a scheduler trough an application installed on PC. The system works in the background but it warns the user in case of errors. The main benefits are:

- Permanent fleet control
- Mandatory downloads are made automatically
- · No risk of penalty caused by missing downloads
- The truck doesn't need to return periodically to the base station to download the tachograph thus important cost savings are made

### How it works

TachoSafe Remote Download GPRS downloads remotely the digital tachograph. The remote download unit (RDU) is permanently installed on the truck and it is connected to the digital tachograph.

The download requests are initialized by the TachoSafe Remote Download Unit Manager application installed on a PC or a laptop with connection to the internet. The PC or the laptop needs to be connected with a SMART card reader in order to initialize downloads. The application can make the downloads only with an authorized company card inserted into the card reader.

The download request is sent to the RDU trough the *TachoSafe Gateway*. If the RDU is online the requested data is transferred to the RDU Manager application. After the download is completed the files will be available on the PC or the laptop (even if the RDU goes offline).

If the RDU is offline the files can't be downloaded. The RDU is online when the vehicle's ignition is turned on and GPRS network is available.

Downloads can be scheduled in the TachoSafe Remote Download Unit Manager application. Scheduled downloads will start automatically only when the TachoSafe RDU Manager application and a RDU installed on vehicle are both online.

The status of RDUs, warnings for expiring or expired download deadlines are displayed in RDU Manager application.

The RDU Manager application saves copys of downloaded files to the *TachoSafe Web*. The TachoSafe Web creates analysis, reports and infringement reports based on the downloaded files. The status of RDUs, warnings for expiring or expired download deadlines can be followed on the TachoSafe Web as well.

Re-sellers can manage RDUs easily trough TachoSafe Web Administration and can provide RDU management services to their costumers.



## Tachograph Compatiblity

The remote download unit is compatible with digital tachographs that are capable of data download through C CAN connector. Data download through C connector should be enabled in the tachograph with a programming tool (CTC II, MK II, Digitachytest 2 or others).

If the digital tachograph does not support data download through C CAN connector you can use the RDU in **front download** mode. In these cases the RDU is connected with the front download cable to the tachograph front download port. The downloads can be initiated only manually with a button that can be mounted on the board of the vehicle. The download is performed if the client PC or laptop with RDU Manager application is online.



and button

## Requirements

### For End Users

#### **Requirements for End Users:**

🌱 TachoSafe Remote Download Unit with SIM card installed on the vehicle and connected to the vehicle's digital tachograph

**PC/laptop** (with Windows XP or newer versions) with **connection to the internet** 

TachoSafe Manager application installed on the PC/laptop

Smart-card reader connected to the PC/laptop

Authorized company card for tachograph download

TachoSafe user account

The **mounting** of the RDU on the vehicle is made by an authorized tachograph service, who should make the first download with the client's company card to verify if all configurations are set properly.

The system requirements for the PC/laptop is: 128 MB RAM, 200 MB disk space, minimum Pentium2 266 MHz processor. Browsers: Internet Explorer 9 and above, Firefox, Chrome.

The TachoSafe Manager application can be installed by re-seller (with TeamViewer or other remote desktop application) or by end user.

The TachoSafe Manager application and the analysis and reports on the TachoSafe Web can be accessed with TachoSafe user account and password. TachoSafe user accounts can be registered on the TachoSafe Web. This is recommended to be made by the re-seller. After accessing TachoSafe Web, companies can change password and add more users to their company's account.

Optionally end users can provide their **own SIM cards** with a proper data traffic plan instead of the SIM provided by the re-seller or the manufacturer. The recommended data traffic plan is for the RDU's **SIM card** is: 2-5 *MB/month on GPRS or 3G or 3G+ network*. For abroad usage the roaming data transfer should be allowed, with more than 1 authorized networks.

If you are interested to use RDU applications on other operating systems contact manufacturer.

### For Authorized Tachograph Services

#### **Requirements for Authorized Tachograph Services:**

#### Mounting on vehicles:



- TachoSafe WEB user account
- TachoSafe Docking Station
- **PC/laptop** (with Windows XP or newer versions\*) with connection to the internet
- TachoSafe Configuration Tool installed on the PC/laptop
- SIM card with a proper data traffic plan

#### Testing the mounted RDU (first download):



Smart-card reader connected to the PC/laptop

The costumer's company card

The costumer's TachoSafe WEB user account

The system requirements for the PC/laptop is: 128 MB RAM, 200 MB disk space, minimum Pentium2 266 MHz processor. Browsers: Internet Explorer 9 and above, Firefox, Chrome.

It is advised to the authorized tachograph service to make **the first download** with mounted RDU in-order to verify if all configurations are set properly.

The **TachoSafe Manager application** can be installed for the end user's by the authorized tachograph service. If the application is installed with a remote desktop application (like TeamViewer), the mounted RDU can be tested directly from the client's PC. If the application is installed by to costumer, or the application is already installed, be sure the first download is made.

TachoSafe user accounts can be registered on the TachoSafe Web. A new costumer's TachoSafe **user account** is recommended to be made by the authorized tachograph service. In this way the authorized tachograph service is able administrate installed RDU's through TachoSafe Web. After accessing TachoSafe Web, companies can change password and add more users to their company's account.

The recommended data traffic plan is for the RDU's **SIM card** is: 2-5 *MB/month on GPRS or 3G or 3G+ network*. For abroad usage the roaming data transfer should be allowed, with more than 1 authorized networks.

If you are interested to use RDU applications on other operating systems contact SVT Electonics (sales@svt.ro).

### For System Integrators

Contact the manufacturer for more information: http://www.svt.ro

Mounting the RDU The RDU Device



### **RDU LED Messages**

The LEDs on the RDU can output the following status messages:

Red LED Operation	Green LED Operation	Message
ON for 3 seconds	ON for 3 seconds	Power ON
OFF	Blinks	CAN communication
ON	OFF	Connecting to web server
OFF	ON	The RDU is connected to web server

The LEDs on the RDU can output the following error messages:

Red LED Operation	Green LED Operation	Message
ON for 3 seconds, than stays OFF for 20 seconds	ON for 3 seconds, than OFF for 20 seconds	CAN Error
Blinks 2 times, than stays OFF for 20 seconds	OFF	Remote download is not enabled on the tachograph
Blinks 10 times, than stays ON for 5 seconds	OFF	SIM Card Error

### Inserting SIM Card into the RDU

In order to insert/change the SIM in the module the following items are required.

- 1. TachoSafe Remote Download GPRS device
- 2. Star head screwdriver
- 3. New SIM card

Please choose an appropriate data plan from your GSM provider in order to reduce the operating costs. 20MB/monthly traffic is more than sufficient and is generally required when you download the tachograph and cards on daily basis. The requirements are 90 or 120 days for tachographs and 21 or 28 days for cards. This varies by countries so choose your download frequency as appropriate.

You should also choose cost control for your data plan in order to avoid high phone bills in case of device or other failure.

To insert the SIM card into the device please follow the instruction below.

#### Step 1

Disconnect all cables from the device. Both from back and front panel.

Remove the 4 screws from the front panel with the screwdriver.



#### Step 2

Remove the from panel shield.



#### Step 3

Gently pull out the PCB from the device around 1-2 cm.



#### Step 4

Locate the SIM card connector on the bottom of the PCB.

Insert the SIM card into the SIM card slot with the SIM cards connector part facing the PCB.

Push back the PCB into it's place gently.



#### Step 5

Place the front panel shield back to it's place.



#### Step 6

Put back and tighten the 4 screws with the screwdriver.



#### Step 7

Configure the device by following the instructions in the Setting up the Device guide.

## Setting up the Device

📃 Unknown macro: 'scroll-pagebreak'

The application should not be used with any other device made or not by SVT Electronics.

If the RDU is not set by the manufacturer, the authorized tachograph service should set it up. To set up an RDU a docking station is needed, which can be purchased separately from the manufacturer (http://www.svt.ro).

This document provides information about configuration of the SVT Electronics's TachoSafe Remote Download GPRS device.

#### Step 1

Connect the docking station to the remote unit, the power supply and to your PC with the USB cable.



#### Step 2

Download the configuration utility from [http://tachosafe4.svt.ro/installer/ts4Config\_latest.zip]] and extract it to your computer.

#### Step 3

Run the saved TS4ConfigTool.exe application and you will get the following screen.

TS4 Configuration Utility - v1.0.842-Unicode-Rel	ease				
Connection	Configure terminal parameters			Commands	
com1   Refresh	Configure	ad Write	Defaults	Update	Erase
Server settings 1 2	3	4 5	6	7	8
Server address: rdus.svt.ro	Server port: 4040	<- Don't change these v	alues unless you are	asked to	
Device settings	a b				
Download type: CAN C 💌 CAN C Sp	eed: 250k 💌				
GPRS WIFI Module	d				
PIN: 0000 *APN: internet	*Username:	*Password:	E R	toaming enabled	
* Ask Your&M operator for APN, Us	ername and password	g	h	i	
j					<sup>^</sup>
					*

- 1. Serial port selection
- 2. Refresh serial port list
- 3. Enter configuration mode
- 4. Read parameters (configuration mode)
- 5. Write parameters (configuration mode)
- 6. Restore default parameters (configuration mode)
- 7. Update firmware
- 8. Erase downloaded tachograph and driver cards data from unit

#### Configuration mode parameter fields

- a. Server name for data connection
- b. Server port for data connectionc. Select download type CAN C or Front Download
- d. Select CAN C Speed
- e. PIN code for the inserted SIM card
- f. Access Point Name
- g. Username for GPRS data connection
- h. Password for GPRS data connection
- i. Enable connection in roaming

Data for e to h should be provided by the GSM/GPRS provide

j. Detailed data window

#### Step 4

Click the Configure (3) button



#### Step 5

Press the restart button on the docking station in order to restart the remote unit.



#### Step 6

After detection all the changeable fields will be enabled and you can update them as required by the GPS/GPRS service provider.

TS4 Configuration Utility - v1.0.842-Unicode-Release	
Connection Configure terminal parameters Commandes	
com1   Refresh Disconnect Read Write Defaults Update	Erase
Server settings	
Server address: rdus.svt.ro Server port: 4040 <- Don't change these values unless you are asked to	
Device settings	
Download type: CAN C Speed: 250k	
GPRS WIFI Module	
PIN: 0000 *APN: Internet.vodafone.ro *Username: Internet.vodafone. *Password: Vodafone IV Roaming enabled	
* Ask Your GSM operator for APN, Username and password	
>VIEW	
TachoSafe RDU GPRS v1.4.0 RC (Apr 23 2015 17:14:04) DEVICEID=TS012896005770687	
PIN=0000 APN=internet.vodafone.ro	
USERNAMEinternet.vodafone.ro PASSWORD =-vodafone	
KOAMING=1 UARTBALDRATE=0 CANFALIDRATE=0	
FRONTDOWNLOAD=0 DOWNLOADBUTTON=1	
SERVER=rdus.svt.ro PORT=4040	
2	Ŧ

#### Step 7

Click the Write(5) button in order to save changes.

If you decide to change other settings please repeat the process from Step 4.

Mounting into the Vehicle

Please download the tachograph before mounting the RDU.

- 1. Insert the SIM card. See instructions for SIM card insertion.
- 2. Setup the device correctly with the correct APN, username and password received from your GSM/GPRS data provider using the Config utility.
- 3. Connect the power cables the red cable should be connected after the ignition line and the black to the ground line.



#### 4. Connect the download cable

You can use the RDU in remote or in front download mode, so you should connect only one cable to the tachograph a. or b.

If you want to use the remote download please be sure the tachograph is capable of data download through C CAN connector. If yes, please check that all the necessary settings for data download through C connector are enabled in the tachograph.

a. In remote download connect the red connector to the digital tachographs C connector.



You can enable the remote download with a tachograph programing tool (CTC II, MK II, Digitachytest 2 or others). You have to enable the remote download and to put the remote download on the CAN2 port.

b. In front download mode connect the front download cable to the tachograph front download port



- Connect the antenna to the RDU.
   Connect the cable's black connector to the RDU c. connector. See device description.



7. Turn on the ignition and wait until the Green status is lit up and stays on. Max 1 minutes.



In case of failure check the following:

- All the connections are made correctly
- Is the CAN2 enabled in the tachograph
  Is the SIM card correctly inserted (Disconnect all cables before dismounting the screews)
  Is the PIN code correctly configured or is it disabled

### Front Download Button and LED

#### **Button operation**

By pressing the button the user can select between card and card and tachograph download.

Short press

Driver cards will be downloaded.

#### LED operation

The LED can show the current status of RDU operation

LED OFF	Stand-by
Blinking every second	Downloading the data from the card, tachograph or uploading the downloaded data to the client.
Blinking twice every second	Error in the download process. The LED will blink until the button is pressed.
LED ON	Download is completed successfully and the data was uploaded to the client. The LED will light until the button is pressed.



### Firmware update

This document provides information about updating the firmware of the SVT Electonics's TachoSafe Remote Download GPRS unit.

The updater application should not be used with any other device made or not by SVT Electronics.

Please follow the instructions below in order to successfully update the firmware.

Firmware update is not required unless requested by manufacturer. Do not update the firmware if the device is working properly.

Repeat the steps described in the Configuration

#### Step 2

Click the Update[7] button and select the firmware file at the next screen.

#### Step 3

When it is requested reset the terminal by pushing the restart button on the docking station in order to be detected by the application.



The update process should start automatically and should last about two minutes, however initially the time estimation shows much more.

Detecting device	FW update
Please wait.	Please wait.
Erasing memory	Uploading firmware
Elapsed time: 0:00:13	Elapsed time: 0:00:35
Estimated time: 0:00:30	Estimated time: 0:05:06
Remaining time: 0:00:17	Remaining time: 0:04:31
Cancel	Cancel

Follow the instructions on the screen.

#### Step 4

Click OK when finished.

FW update	Street gards	23
Please w Uploadir	ait. Info	-
	ОК	

If something goes wrong during the update you should restart the process from Step 2.

📃 Unknown macro: 'scroll-pagebreak'

# Using the RDU

Más cím?

- Usage
- How-To
- Knowledge Base

## Installing the TachoSafe RDU Manager Application

Download TachoSafe RDU Manager application from tachosafe4.svt.ro

Follow the instructions of the installation window.

1.)          Installer Language         Please select the I         English	anguage of the installer
2.)	Setup Welcome to the TachoSAFE - RDU Manager Setup Wizard This wizard will guide you through the installation of TachoSAFE - RDU Manager. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.

23

Next >

Cancel

hoose Install Location	6
Choose the folder in which to install TachoSAFE - RDU Manager.	
Setup will install TachoSAFE - RDU Manager in the following folder. To inst folder, click Browse and select another folder. Click Install to start the inst	all in a different allation.
Destination Folder	
Destination Folder Program Files (x86)\SVT Electronics\TachoSAFE - RDU Manager	Browse
Destination Folder Program Files (x86)\SVT Electronics\TachoSAFE - RDU Manager Space required: 4.7MB	Browse
Destination Folder  Program Files (x86)\SVT Electronics\TachoSAFE - RDU Manager  Space required: 4.7MB Space available: 78.8GB	Browse
Destination Folder  Program Files (x86)\SVT Electronics\TachoSAFE - RDU Manager  Space required: 4.7MB Space available: 78.8GB Isoft Install System v2.46	Browse

4.)

🗑 TachoSAFE - RDU Manager	Setup	
Choose Components Choose which features of Tach	noSAFE - RDU Manager you want	to install.
Check the components you wa install. Click Next to continue.	nt to install and uncheck the com	ponents you don't want to
Select components to install:	TachoSAFE - RDU Man Start menu shortcuts	Description Position your mouse over a component to see its description.
Space required: 4.7MB	< >	
Nullsoft Install System v2.46 —	< Back	Next > Cancel

5.)



Opening or Starting the Application

#### At the first run of the application:

At the first run of the application you have to enter login information received by e-mail from your service provider:

TachoSafe RDU	Manager - Login	×
Username : Password :		
v4.1	OK	Cancel

If you didn't received any login information, please contact us at : rdu@tachosafe.ro

#### In-order to open or start application properly follow the these steps:

1. Open TachoSafe RDU Manager application from the tasktray:

Show Terminal List 🧲	
Show Downloads	
Settings Check for Update	
Help	
About	*
Logout	
Exit	
Custon	nize
	) 🗠 🛤 📾 🐠

If TachoSafe RDU Manager application is missing from the tasktray it means that is not running in background and scheduled downloads have not made. Normally the application should run from startup. You can start the application from: Start All Programs SVT Electronics TachoSAFE - RDU Manager.

2. Make sure that the PC or laptop is connected to the internet and the TachoSafe RDU Manager application has internet access.

#### In remote download mode:

1. Make sure that the PC or laptop is connected with a functioning SMART-Card Reader.



2. Make sure that the company card (witch was previously locked in to the tachograph) is inserted to the SMART-Card Reader.



3. Make sure that company card was registered in the TachoSafe RDU Manager application.

Find out how you can add a card in the TachoSafe RDU Manager application.

In the front download mode you have to insert the company card in the tachograph to be able to download it.

## Adding or Changing Company Card

In the front download mode you have to insert the company card in the tachograph to be able to download it

In-order to add or change company card in remote download mode follow the these steps:

Make sure that all requirements are full-filled to run the RDU Manager application properly. Find out more how to open or start the application properly.

1. Open settings window from: File Settings

TachoSafe RDU Manager - test_2 - 4.1.90 (2015/07/07 11:16)						
File View Help						
Settings Ctrl	-s hicles (1/1	1) 😡 Cards	(1)			
🔧 Logout test_2 Ctrl	·	Filter				
Ctri	-× tname	Lastname	Lastv			
00000000069L Be	mat-Laszlo	Nyulas				

#### 2. Click Add/Change:

🍰 TachoSafe RDU Manager - test_2 - Settings	
Download settings File saving settings FTP set	ettings Server settings
Download nr days :	90 -
Tachograph download interval :	80 ÷ day(s)
Card download interval :	18 ÷ day(s)
Download in roaming :	
Company Card Number :	0000000050X3010 Add / Change
Upload files to TachoSafe WEB :	The company card number used to download the specified device
TachoSafe WEB url :	http://tachosafe.ro:8080
Disable Signature Check :	
Language :	English
	OK Cancel

3. Take out the company card and type in the serial number of the company card in the box.



4. Click OK

Card number
Please take out the card from the "OMNIKEY AG Smart Card Reader USB 0" card reader. Fill in the "Card number" from the smart card in the text box.
0000000050X3200
OK Cancel

5. Put back the company card in the smart card reader.



### Downloading Tachograph and Company Card

In-order to start manually a remote tachograph or card download follow the these steps:

If the RDU is in remote download mode and is online the application will initialize automatically the first remote download at the first run of the RDU Manager Application.

After a successful manual download scheduled automatic download date will change. Find out more how scheduled download intervals work.

1. Go to the vehicles tab and right clicking on the RDU and the following menu will appear:

🚚 Ta	TachoSafe RDU Manager - test_2 - 4.1.82 (2015/05/15 11:53)							
File	File View Help							
	Status Status (1/1) Cards (0)							
	Filter							
St	Last online	Vehicle Name	Registration	Next download	Next card dow	La	st message	<b>I</b>
6	2015-05-15 12:44:06	TS012896005770687	Vehicle :	In 60 day(a)	oday	Download complete.		<u> </u>
		-	Online check					
		-	Download ourrent	in ch a graph				
			Download current	cards				
		-	Download last tast	ograph				
			Download last car	is				
		-	Cancel current cor	nmand				
								_

#### 2. Choose from the menu:

Online check	Check if the RDU is online or not.
Download current tachograph	Start a remote download and download the current tachograph data
Download current cards	Start a remote download and download the current driver cards inserted in the tachograph
Download last tachograph	Download the last tachograph data that was saved on the RDU
Download last cards	Download the last driver cards saved on the RDU
Cancel current command	Cancel the current on going command if any.

Downloads can be scheduled in the TachoSafe RDU Manager application. Scheduled downloads will start automatically only when the TachoSafe RDU Manager application and a RDU installed on vehicle are both online. Find out more about how it works.

## Scheduled Downloads

Scheduled downloads work only if remote download mode. In front download mode, you have to start download manually.

If the RDU is in remote download mode and is online the application will initialize automatically the first remote download at the first run of the RDU Manager Application.

At the "Download settings" you can set the schedule period and the number of the day you want to be downloaded:

🖆 TachoSafe RDU Manager - test_2 - Settings		_ <b>_</b> X
Download settings File saving settings FTP set	ettings Server settings	
Download nr days : Tachograph download interval : Card download interval :	$90\frac{1}{2}$ $80\frac{1}{2}$ $day(s)$ $18\frac{1}{2}$ $day(s)$	
Download in roaming :		
Company Card Number :	0000000050X3010 Add / Change	
Upload files to TachoSafe WEB :	×	
TachoSafe WEB url :	http://tachosafe.ro:8080	
Disable Signature Check :		
Language :	English	
	ОК	Cancel

You can open settings window from aplication main menu: File Settings:



The periods you set are always counted from the last download date. *Ex. If you set 18 days for the card download interval and the last card download was 1<sup>th</sup> of June, then on 18<sup>th</sup> of June the card will be downloaded automatically if the TachoSafe RDU Manager application and a RDU installed on vehicle are both online.* 

If you make a download started manually, the last download date will change. *Ex. According to the previous example if you make a manually started download on 10<sup>th</sup> of June, than the scheduled automatic download date will change from 18<sup>th</sup> of June to 28<sup>th</sup> of June.* 

If there is only one day difference between the dates scheduled for the tachograph and card than both are downloaded at the same date. Ex. If the date scheduled for the tachograph is 17<sup>th</sup> of June and the date scheduled for the card is 18<sup>th</sup> of June both are downloaded on 17<sup>th</sup> of June if the TachoSafe RDU Manager application and a RDU installed on vehicle are both online.

Read more about how the solution works.

### Downloading Tachograph in Front Download Mode

If the digital tachograph does not support data download through C CAN connector, you can use the RDU in **front download** mode. The RDU is connected with the front download cable to the tachograph front download port. The downloads can be initiated only manually with the button mounted on the board of the vehicle.

Find out more about tachograph compatibility.



#### The remote download is performed with the following steps and conditions:

- 1. The button installed on the vehicle is pressed. (Read more about the front download button usage.)
- 2. Authorized company and driver cards are inserted in the tachograph.
- 3. The RDU is online: vehicle's ignition is turned on and GPRS network is available.
- 4. The client PC or laptop with RDU Manager application is online (the application is running and has access to the internet)

In front download is important to follow status logs to and download expiration warnings.

Find out how to follow status log trough TachoSafe Manager application.

The files downloaded in front download mode you can access the same way as the files downloaded in remote mode.

If the making copys of the downloaded files on TachoSafe Web is enabled, status logs and download warnings can be followed trough web. On the TachoSafe Web GPRS/3G+ Traffics can be followed as well.

Access analysis, reports and infringements on TachoSAFE WEB.

### Status Logs

If the RDU is in remote download mode and is online the application will initialize automatically start remote download.

6	TachoSafe RDU Manager - test_2 - 4.1.82 (2015/05/15 11:53)					
ł	File View Help					
	Status Status	Vehicles (1/1) 😡 Cards	(0)			
	Clear Log					
	Date	Vehicle Name	Туре	Message	₽	
	2015-05-15 14:44:52	TS012896005770687	Success	Authenticated. Starting download of Tachograph and Driver cards.	<b>^</b>	
	2015-05-15 14:44:12	TS012896005770687	Info	Authentication in progress		
	2015-05-15 14:44:10	TS012896005770687	Info	Starting Remote Session.		
					<b></b>	

After the remote authentication is completed successfully the RDU will start to download the tachograph and driver cards.

When everything is downloaded successfully you should see something like this :

all TachoSafe RDU Manager - test_2 - 4.1.82 (2015/05/15 11:53)						
File View Help	File View Help					
Status 🔒	Status Kehicles (1/1) Cards (0)					
Clear Log						
Date	Vehicle Name	Туре	Message	Ę		
2015-05-15 14:46:37	TS012896005770687	Success	Download complete.	▲		
2015-05-15 14:46:36	TS012896005770687	Success	Downloaded Tachograph file : _20150515144518.DDD uploaded to TachoSafe WEB			
2015-05-15 14:46:34	TS012896005770687	Success	Tachograph data downloaded as : _20150515144518.DDD			
2015-05-15 14:46:34	TS012896005770687	Success	Tachograph successfully downloaded 90 day(s).			
2015-05-15 14:46:34	TS012896005770687	Info	Tachograph download 100,00 % complete.			
2015-05-15 14:46:33	TS012896005770687	Info	Tachograph download 99,10 % complete.			
2015-05-15 14:46:33	TS012896005770687	Info	Tachograph download 96,00 % complete.			
2015-05-15 14:46:32	TS012896005770687	Info	Tachograph download 92,91 % complete.			
2015-05-15 14:46:31	TS012896005770687	Info	Tachograph download 89,81 % complete.	=		
2015-05-15 14:46:31	TS012896005770687	Info	Tachograph download 86,71 % complete.			
2015-05-15 14:46:30	TS012896005770687	Info	Tachograph download 83,62 % complete.			
2015-05-15 14:46:29	TS012896005770687	Info	Tachograph download 80,52 % complete.			
2015-05-15 14:46:29	TS012896005770687	Info	Tachograph download 77,42 % complete.			
2015-05-15 14:46:28	TS012896005770687	Info	Tachograph download 74,33 % complete.			
2015-05-15 14:46:27	TS012896005770687	Info	Tachograph download 71,23 % complete.			
2015-05-15 14:46:27	TS012896005770687	Info	Tachograph download 68,13 % complete.			
2015-05-15 14:46:26	TS012896005770687	Info	Tachograph download 65,04 % complete.			
2015-05-15 14:46:25	TS012896005770687	Info	Tachograph download 61,94 % complete.			
2015-05-15 14:46:24	TS012896005770687	Info	Tachograph download 58,84 % complete.			
2015-05-15 14:46:23	TS012896005770687	Info	Tachograph download 55,74 % complete.			
2015-05-15 14:46:23	TS012896005770687	Info	Tachograph download 52,65 % complete.			
2015-05-15 14:46:22	TS012896005770687	Info	Tachograph download 49,55 % complete.			
2015-05-15 14:46:21	TS012896005770687	Info	Tachograph download 46,45 % complete.			
2015-05-15 14:46:21	TS012896005770687	Info	Tachograph download 43,36 % complete.			
2015-05-15 14:46:20	TS012896005770687	Info	Tachograph download 40,26 % complete.			
2015 05 15 14:46:10	T0010006005770607	Info	Tachagraph download 27.16 % complete	•		

If the RDU is in remote download mode and is online the application will initialize automatically the first remote download at the first run of the RDU Manager Application.

Make sure that all requirements are full-filled to run the RDU Manager application properly.

Downloads can be scheduled in the TachoSafe Remote Download Unit Manager application.

Downloads can be full-filled only when the TachoSafe RDU Manager application and a RDU installed on vehicle are both online. Read more about how the solution works.

### Accessing Downloaded Files

If you want to see the downloaded files right click on the RDU Manager tray icon



and click on the Show Downloads menu.



The default folder of the downloads is: C:\Program Files (x86)\SVT Electronics\TachoSAFE - RDU Manager\Downloads

If the making copies on TachoSafe Web is enabled you can access your downloaded files anytime on the web. On the TachoSafe Web you can additional tools for analysis and reports.

### Making Copys of the Downloaded Data to TachoSAFE WEB

In order to make copies of the dowloaded data on TachoSafe Web, this option must be enabled in the "Download Settings":

🐇 TachoSafe RDU Manager - test_2 - Settings				_ = ×
Download settings File saving settings FTP settings	ettings Server settings			
Download nr days :	90 -			
Tachograph download interval :	80 📩 day(s)			
Card download interval :	18 📩 day(s)			
Download in roaming :	<b>v</b>			
Company Card Number :	0000000050X3010	Add / Change		
Upload files to TachoSafe WEB : 🤇				
TachoSafe WEB url :	http://tachosafe.ro:8080			
Disable Signature Check :				
Language :	English	•		
			ОК	Cancel

You can upload additional .DDD files manually on the TachoSafe Web.

Make sure that all requirements are met to run the RDU Manager application properly.

Downloads can be scheduled in the TachoSafe Remote Download Unit Manager application.

Downloads can be done only when the TachoSafe RDU Manager application and a RDU installed on vehicle are both online. Read more about how the solution works.

## **Disabling File Signature Check**

If you are testing a demo or training unit you might get **file signature errors** at tachograph downloads. The RDU Manager application will ask you to download again the tachograph.

You can disable the signature check in the settings by selecting the Disable Signature Check:

Download settings File saving settings FTP set	ettings Server settings
Download nr days : Tachograph download interval : Card download interval : Download in roaming : Company Card Number : Upload files to TachoSafe WEB : TachoSafe WEB url : Disable Signature Check :	90 <sup>^</sup> → 80 <sup>^</sup> → day(s) 18 <sup>^</sup> → day(s) ✓ Add / Change ✓ http://tachosafe.ro:8080
Language :	Disable the signature verification on files. Useful when using demo tachographs.       English       OK       Cancel

# Using TachoSAFE WEB

## Accessing Analysis, Reports and Infringements on TachoSAFE WEB

#### Logging in on TachoSAFE WEB and entering admin mode

Accessing the rdu.tachosafe.ro webpage it will open the TachoSAFE WEB.



If you don't posses a user and a password contact the re-seller or the manufacturer (tachosafe4@svt.ro).

You can only register as a company. Do not register unless you are asked by the re-seller or the manufacturer, normally registrations are made by them. After registering as a company you can add more users to your company.

Log in first!		■業■	
	Password	ок	
	Registo	er	
© <u>SVT Electronics</u>	2013. TachoSafe reserved	e WE Verst	

On the TachoSAFE Web main user interface you able to:

Analysis, Reports and Infringements on TachoSAFE WEB are based on the remotely downloaded files. Making copies of the downloaded files on the web must be enabled in the RDU Manager application.



1. Access drivers and vehicles data from a more user friendly interface:

2. Upload files manually and access all files online:

Logged in as: ad	min fr	om <u>SVT Elect</u>	ronics			Curr	ent locatio	n: Tac	hoSAFE \	WEB   U	Jploaded File	es		Ħ	< 💷 🗖 🚺	🍭 Remote U	nit Adm	inistration	1 😔 Log	gout
										Upl	oaded File	es								
	Driv	er card files	Tacho	ograph files																
	First	Name	Last Nar	ne	Card num	ber	Original File	name	Filter	Clea	ar				Download Selected File		Files	Delete Selec	ted Files	
		Upload date	+	First activit	y (	Last act	ivity	Drive	er First Na	me 🔶	Driver Last Na	ame 🔶	Card number		Original File r	ame				
		13/06/2014 15:	43	02/11/2010	02:00	27/07/20	012 22:09	Jesse			Schwalter		-		-	Contract Second St	in the second second			ġ,
		13/06/2014 15:	46	25/09/2013	03:00	26/05/20	014 09:28	Nicky			-		-	-	CONTRACTOR	10. 1 de 10e	-		= 1	ġ.
		30/06/2014 14:	59	03/02/2013	02:00	06/06/20	014 17:26	Bogda	an		29				-	ALC: NO DESCRIPTION	50.000		= 1	b .
		16/07/2014 16:	32	26/05/2013	03:00	18/05/20	014 02:00	GAVR	IL.		1910		-		-	-	-		1	Ū.
		18/08/2014 16:	28	14/02/2014	02:00	07/08/20	014 07:01	Bogda	an-Valentin		Gen		_		Sector Gas		-		1	b
		< 1 > >>	Go to page	n 1 🔻 Row	count: 100	•												Show	ing 1-5 of	5
<b>7</b> -																				
						<u>2</u> 0	VT Electronic	<u>cs</u> 2013.	. TachoSa	fe WEB	Version 1.2.	All rights	s reserved.				5	<b>3</b> 5		Cs

3. Check infringements related to your company:

	Card number	DOFT TOF							
	Listed period: 03	ments to 561/200	06.						
+EU-561/2	2006	Infringement							
-6.1a: More than 10 h of daily driving.					1 infringeme				
From	То	Duration	Norm		Difference				
05/09/14 02:00	05/09/14 13:02	11:02	10:00		01:02				
Daily driving limit of 10 hours exceeded by	the amount found at Difference column. This is	an infringement according to	EU regulation 561	/2006 Chapter	2 Article 6 Paragraph 1				
-7.0: Insufficient rest during a 4h 30 m	in driving period.				2 infringeme				
From	То		Duration	Norm	Difference				
31/08/14 23:00	31/08/14 23:00		00:00	04:30	04:30				
05/09/14 20:30	06/09/14 05:30		09:00	04:30	04:30				
Continuous driving period of 4h30m was exceededed by the amount found at Difference column. This is an infringement according to EU regulation 563									
-8.2: Less than 9 h of daily rest.					2 infringeme				
From	То	Duration	Norm		Difference				
05/09/14 17:01	05/09/14 20:20	03:19	09:00		05:41				
08/09/14 17:35	08/09/14 21:50	04:15	09:00		04:45				
I, the undersigned driver, herewi requested, to observe the legal d Statement of the driver	th confirm, that I was notified abou riving and resting periods in future.	t the above listed infri	ngements and	i that I was	instructed and				

4. Analyse reports:



If you are in administration mode, you can switch back from the administration interface to the user interface at the top-right part of the website.

	🚺 🚺 🔤 🙆 TachoSAFE WEB 🔊 Lo	ogou
5	kB V Filter Clear	
÷	Roaming Traffic	View Log

### Using TachoSafe Web Administration Mode

#### Entering administration mode

You can switch from the main user interface to administration mode by clicking the "Remote Unit Administration" link on the top right side of the webpage.

#### Assigning RDU to a company

Each purchased RDU by an authorized tachograph service will appear automatically in it's account. The authorized tachograph service only needs to use the "Move Terminals" option to assign an RDU to a company.



#### Editing Company Cards on TachoSAFE WEB

Company cards are registered by the RDU Manager desktop application. On TahoSAFE WEB, in Administration mode you can only edit or delete company cards.

Logged in as: 🧔 Szabesz fr	rom <u>SVT Electronics</u> Current location :
View Status reports (2)	Company Cards
Company Traffic Terminal Traffic	Company Card.ID.
Logs Status	Company
Remote Units (180) Tachographs (73)	Edit Record
Driver Cards 322 Settings Companies	Company Demo1 Card ID
Remote Units Users	I-00000105767001
Company Cards	Cancel Save
Logout	

### Creating New Company in Administration Mode

In case if you want to install a TachoSafe RDU GPRS, remote download system to a new customer, then you must first create a WEB account. One company requires one WEB account, for several trucks.

Go to rdu.tachosafe.ro webpage, and sign in with your company credentials

Click Settings -> Companies menu (1), than click Company Wizard (2)

Logged in as: 🙆 test1 f	from	<u>Feszt1</u>					💻 👬		2 🍋	Tachos	SAFE W	ЕВ  Θ	Logout	
View		Companies												
Company Traffic		Company	Co	ntact		E-mail		Phone		Filte	er (	Clear		
Logs		Companies + Company Wizard												
Status Remote Units	1	Company 🔶	Contac	t 🔶	Website	E-mail	÷	Phone 🔶	Users	#RDU	Cards	View Log		
Tachographs	1	Teszt1	Szempy	/		szempy@c	mail.com	+40742611088	1	1	0		2	
Settings		<< < 1 > >>	Go to pag	ge: 1	<ul> <li>Row count:</li> </ul>	20 👻					s	lowing	1-1 of 1	
Companies														
Remote Units		1												
Company Cards											2			
Control Logout														
	1													
		© <u>SVT Elec</u>	<u>tronics</u> 2	2013.	TachoSafe W	/EB Version	1.3. All 1	ights reserved.		5			ONICS	

Complete the form with your partner company details. The fields marked with \* are mandatory.

1 Company Company Details	2 Contact Contact Details	3 RDU RDU list	4 User Register	Account
Step 1: Fill Company Deta	ails			
	Company Name :* Test Co	ompany 1	<b>(</b> )	
		Company Address		
	Address : Str. Bră	áila nr. 7	1	
	City : Târgu-M	Mureș	()	
	Country : România	а	()	
	C	ompany Fiscal Data		
	VAT ID : ROXXXX	XXX	1	
R	egistration Number : JXX-XX	-XXXX	()	
			Previous Nex	tt Finish

Complete the form with your partner company contact details

1 Company Company Details	2 Contact De	c <b>t</b> tails	3 RDU RDU list	4	User Acc Register a User	ount Account
Step 2: Fill Contact Details						
Co	ntact Person :* Phone :*	Test Company		0		
	Fax :			0		
E-	mail address :*	test.company@sv	/t.ro	0		
				Previous	Next	Finish

Select the RDU ids that you want to add to the new company from the list (1) push the button (2) and the assigned terminals will appear in the new company RDU list (3)

1 Company Company Details	2 Contact Contact Details	3 RDU RDU list	User Account Register a User Account
Step 3: Add remote dow	vnload units		
1	TS861785001865629 TS861785001864986 TS861785001872526 TS861785001872245 TSDM123456789ABCD TSW7A000666710983 TSW7A000666710985 TW861785007785912 TW861785001828593 TW861785007784212	2 5 5 5 5 5 5 5 5 5 5 5 5 5	3
		Previous	Next Finish

You can set the new companies username and password in the last step, and if you want you can send an email to the customer with the newly created login information.

1 Company Company Details	2 Contact Contact Details	3 RDU RDU list	User Account Register a User Account
Step 4: Fill User Account	details		
Send	Username :* test_compan Password :* okR4y9sc • d information e-mail : E-mail address :* test.compan Phone :* +40-365-809	Check box if you want that the login information is se to the customer email add @svt.ro	New customer username and password, can be changed. nt ress.
	N 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999	Previous	Next Finish

When is finished the following message appears:



## Adding new user

Step 1. Select "Users" under "Settings" in the left sidebar menu.



Step 2. Click on the "Add User" button in the top right corner of the webpage.

				(+	Add (	Us	
¢	User Enabled	÷	User Rank	\$	-	٢	
	Enabled		User		Z		
	Enabled		Manager		Z		
	Enabled		Manager Add User				
	Enabled	Add Use					
	Enabled	Company	1		Z		
	Enabled	SVT Electro	onics	•	Z		
	Enabled	Szabesz	e		Z		
	Enabled	E-mail			Z		
	Enabled	dolcsig.szał		Z			
	Enabled	Phone +407409351	53		Z		
	Enabled	User Ena	bled		Z		
	Enabled	Enabled	·		Z		
	Enabled	User Ran	k		Z		
	Enabled	Passwor	er d		Z		
	Enabled				Z		
	Enabled	Retype-F	assword		Z		
	Enabled				$\mathbb{Z}$		
	Enabled		Canaal	Cava	Z		
	Enabled		Cancel	Save	Z		
	Enabled		Manager		Z		
	Enabled		Manager	Showing 1	-20 of	1	

### Status and Download Warnings in Administration Mode

In the left side menu you can check status for:

- Remote Units (Status > Remote Units) that are registered to you company or to other companies that were registered by your company.
- Tachographs (Status > Tachographs) that are registered to you company or to other companies that were registered by your company.
- Driver Cards (Status > Driver Cards) that are registered to you company or to other companies that were registered by your company.

You can edit, delete/unmount or view their logs.

Where download term is close data line appears in light red / pink color. If they are out of date they appear in red color. The number of warning appear at left side menu, too.

Logged in as: 🙆 Szabe	sz fro	om <u>SVT Electronics</u> Cu	irren	t location : Remo	ote Unit Administra	tion   Tacho <u>c</u>	jraphs   💻 🎀		💩 TachoSAFE W	/EB   (	🖲 Lo	gou
View Status roports	2	Tachographs										
Company Traffic Terminal Traffic		Company	RDU	ID	Vehicle name	Reg. Num	Fi	ter Clear				
Logs	$\sim$	Company		RDU ID	Vehicle name	Reg. Num 🔶	Last connection	Last downloaded	Next download	Vie	w g	
Remote Units	60	Reservation 1			Team (1998) 799-10	-	Today at 08:22:59	76 days ago at 02:57:02	in 3 days at 02:57:02			e
Tachographs	74	Transition Prints				-	Today at 02:06:46	76 days ago at 02:57:02	in 3 days at 02:57:02			e
Settings		an Manual Transport					Today at 06:08:59	3 days ago at 07:03:14	in 3 days at 07:03:14			e
Companies Remote Units							Today at 09:41:10	3 days ago at 07:07:16	in 3 days at 07:07:16			ſ
Users Company Cards							5 days ago at 09:54:22	5 days ago at 10:40:51	in 4 days at 10:40:51			e
Control		man and the					4 days ago at 08:14:08	24 days ago at 13:12:17	in 5 days at 13:12:17			e
Logoul		manife the					Today at 05:53:48	24 days ago at 13:15:32	in 5 days at 13:15:32	100		e
		weather to				-	6 days ago at 10:56:39	24 days ago at 13:18:26	in 5 days at 13:18:26			ø
		manuff (1)					Today at 08:39:28	24 days ago at 13:22:27	in 5 days at 13:22:27			e
		weath to			-		Today at 07:37:03	24 days ago at 13:23:44	in 5 days at 13:23:44			e
		<< < 1 2 9 10 1	1	37 38 > >> Go t	o page: 10 🗸 Row count:	10 🗸			Sho	wing 91	1-100 o	of 376
			© <u>5\</u>	<u>/T Electronics</u> 2013	. TachoSafe WEB Ver	sion 1.3. All r	ights reserved.		2	5		

The driver cards and the tachographs are registered into the database at their first use with the TachoSAFE Remote Download Unit. The remote units are added by the dealer when the unit is mounted on the vehicle.

In this way, the tachographs witch have never been downloaded will not appear. The unused RDUs can be found under "Status: Remote Unit" as warnings.

You can view your own company's stats and warnings at "Status reports" under "View", without the data of the other companies that you registered:

Logged in as: 💩 Szabesz f	rom <u>SVT Electronics</u>	Current location : Remo	te Unit Admini	stration Status reports	三 米 💷 🚍 🖬 🖬	📕 💩 TachoSAFE WEB 🞯 I	Logou							
View	Tachograph d	lownload status												
Company Traffic	RDU ID	Vehicle name Reg. No	um	Filter Clear										
Terminal Traffic	RDU ID	Vehicle name	🔶 Reg. Num 🗧	Last connection	Last downloaded	Next download	View Log							
Status		10.000.000.000.000		54 days ago at 09:46:35	Never									
Remote Units 180	-			103 days ago at 13:04:26	Never									
Tachographs 73		TO DESCRIPTION OF A		103 days ago at 13:03:33	Never									
Settings	100000000000000000000000000000000000000			Never	Never		1433							
Companies		Transmission and the P		129 days ago at 10:02:29	Never									
Remote Units	-			129 days ago at 10:01:54	Never									
Company Cards	10.000	100400000400108		Never	Never									
Control	110000000000000000000000000000000000000	100400000040040040		Never	Never		1.02							
Logout	110000000000000000000000000000000000000	100000000000000000000000000000000000000		Never	Never		1022							
				Never	Never									
	<< < 1 2 8 9	>>> Go to page: 1 V Row count:	10 🗸			Showing 1-	·10 of 82							
	Driver Cards download status													
	Driver Card number	Driver Name Filter	er Name Filter Clear											
	Driver Card number	Driver Name	-	Company Driver	💂 Last Download	Next Download	÷							
		NAME AND		Occasional	662 days ago at 17:01:44	644 days ago at 17:01:44								
	-	on the fight to		Occasional	482 days ago at 09:42:53	464 days ago at 09:42:53								
10		Name of the Owner of the Aug	N Protection day	Occasional	482 days ago at 09:42:53	464 days ago at 09:42:53								
	-	an reason fields		Occasional	297 days ago at 14:38:18	279 days ago at 14:38:18								
	-	Statute Constants		Occasional	241 days ago at 07:05:37	223 days ago at 07:05:37								
		STREET, STREET		Occasional	157 days ago at 14:20:55	139 days ago at 14:20:55								
	<< < 1 > >> Go	to page: 1 🗸 Row count: 10 🗸				Showing	1-6 of 6							
		© SVT Electronics 2013	. TachoSafe WEI	3 Version 1.3. All rights reser	ved.	SV								

## GPRS/3G+ Traffics and Logs

View traffic, check national and roaming data traffics for:

- your own company and for the companies that you registered
- for the terminals that you registered

Logged in as: 🙆 Szal	besz fi	rom <u>SVT Electronics</u> Current loca	ation: Remote Un	it Administration	Company Traffic   🛛 💻 🎀 🛄 💳	🚺 🚺 🍱 🔕 TachoSAFE	WEB 🥘 Logout				
View Status reports	2	Traffic									
Company Traffic	)	Company RDU ID	Vehicle r	ame This	month V 01/06/15 - 22/06/15	kB 🗸 Filter Clear					
Terminal Traffic Logs Status		Traffic									
Remote Units	160	Company	Terminal Count	Terminal in Use 🔶	National Traffic	Roaming Traffic	View Log				
Tachographs	72	ALC Transport	5	3	1,291.00 kB	0.00 kB					
Driver Cards Settings	321	Appendix and the second se	Z	<u>6</u>	2,416.00 kB	0.00 kB	100				
Companies		ALC: NO. THE CONTRACTOR	3	1	579.00 kB	0.00 kB					
Remote Units		100	2	2	97.00 kB	245.00 kB					
Company Cards		1000 H	1	1	646.00 kB	125.00 kB					
Control		100000.00	2	2	250.00 kB	0.00 kB					
Logout		Bert Terrar	5	5	1,882.00 kB	0.00 kB					
		Righteen Traditions	1	1	223.00 kB	0.00 kB					
		Roman realitions	2	2	296.00 kB	0.00 kB					
		Representation of the second	2	2	17.00 kB	0.00 kB					
		<< < 1 2 11 12 >>> Go to page: 1 V Row count: 10 V									
		© SVT F	ectronics 2013. Tac	hoSafe WEB Versio	n 1.3. All rights reserved.	0	SVT				

#### Access and view all logs in one place:

Logged in as: 💩 Szabesz f	rom <u>SVT Electro</u>	onics Cu	rrent location: Remote Unit A	dministration   Logs	■╫∎━∎	📕 🔤   💩 Та	nchoSAI	FE WEB 🥹 Logout
View Status reports	Logs							
Company Traffic	Time	AI	I Type 🗸 Message	Company	RDU ID	Filter	Clear	
	Time 🔶	Туре 🔶	Message		\$	Company	÷	RDU ID
Status Remote Units	Today at 15:26:22	Notification	uRDU disconnected.			Haya Eurotran Spedition		17869158006539643
Tachographs 73	Today at 15:26:21	Notification	Starting Remote Session.			Test2		75012896005770687
Settings 322	Today at 15:26:16	Error	Authentication error : Service not supported in active session, only allowed in remote session.			Test2		75012896005770687
Companies Remote Units	Today at 15:26:16	Notification	RDU TS012896007743625 connected ( in 0.974 s) from <u>213.233.93.207</u> on server: rdus.svt.ro:4040; Firmware: 40; Roaming: 1; Timer: 19; IMSI: 226019833231020;ICCID: 8940011409093310208F; Restart: 0xFF; -Power reset			Reall		15012896007740625
Osers Company Cards	Today at 15:26:15	Notification	Terminal disconnected with 0x00.			Ages Specificat		100.0098007748483
Control	Today at 15:26:08	Notification	Starting Remote Session.			1440		100.00000770487
Logour	Today at 15:26:08	Notification	Client connected with user: test_2; from: <u>5.2.203.234;</u> version: 4.1.87 (2015/06/03 13:13); status: 3			Tanta		
	Today at 15:26:08	Notification	RDU TS012896007746651 connected ( in 0.761 s) from <u>94.144.63.209</u> on server: rdus.svt.ro:4040; Firmware: 36; Roaming: 0; Timer: 9; IMSI: 238022730431277;ICCID: 8945020186484387726F; Restart: 0xFF; -Power reset			ter Section		101.00000011100000
	Today at 15:26:03	Notification	RDU TS012896007743658 connected ( in 0.471 s) from <u>109.33.89.233</u> on server: rdus.svt.ro:4040; Firmware: 42; Roaming: 0; Timer: 16; IMSI: 204045360438221;ICCID: 8931440301718942376F; Restart: 0xFF; -Power reset			or Heater 1	-	101.0094007140808
	Today at 15:26:02	Notification	Client connected with user: test_2; from: <u>5.2.203.234;</u> version: 4.1.87 (2015/06/03 13:13); status: 0			Teatt		
	Today at 15:25:58	Notification	Client disconnected with user: test_2; fr	om: <u>5.2.203.234</u>		Text		
	Today at 15:25:54	Notification	User admin updated the company card : 0000000050X3 from the company Test2.			D/T Electronic		
	Today at 15:25:50	Notification	RDU TS012896005756926 connected ( in 0.758 s) from <u>46.157.225.126</u> on server: rdus.svt.ro:4040; Firmware: 40; Roaming: 0; Timer: 16; IMSI: 242013055662983;ICCID: 89470000141202070653; Restart: 0xFF; -Power reset		Berhalia Trans	port AS	12012094005756926	
	Today at 15:25:49	Succes	Authenticated. Starting download of Driver cards.			Brinkman		10012096007742700
	Today at 15:25:33	Notification	RDU TS012896005770679 connected ( i rdus.svt.ro:4040; Firmware: 42; Roamir 89450403150121782327; Restart: 0xC0	n 0.215 s) from <u>62.44.135.5</u> ng: 0; Timer: 1759; IMSI: 23 ); -Missing main clock	on server: 8201008678232;ICCID:	Ages Spedition		15012896005770679

You can access logs separately by clicking the log icons

:

Last downloaded	Next download 🔶	View Log	
76 days ago at 02:57:02	in 3 days at 02:57:02	A 🗷 -	
76 days ago at 02:57:02	in 3 days at 02:57:02	🖻 🗹 🖉	
3 days ago at 07:03:14	in 3 days at 07:03:14	🖹 🗹 🖉	
3 days ago at 07:07:16	in 3 days at 07:07:16	🗈 🗹 e	
5 days ago at 10:40:51	in 4 days at 10:40:51	🗈 🗹 e	
24 days ago at 13:12:17	in 5 days at 13:12:17	🔛 🗹 e	
24 days ago at 13:15:32	in 5 days at 13:15:32	🖾 🗹 🖉	
24 days ago at 13:18:26	in 5 days at 13:18:26	🔛 🗹 e	
24 days ago at 13:22:27	in 5 days at 13:22:27	🖾 🗹 e	
24 days ago at 13:23:44	in 5 days at 13:23:44	V 🛛 🖉	

(The separate logs can be found at stats.)

# Appendix: Abbreviations & Explanations

#### RDU - Remote Download Unit

CAN2 - the C connector on the tachograph

SIM (subscriber identity module or subscriber identification module) - it is used by mobile telecommunication companies to identify the devices in their network

Authorized Tachograph Services: Companies who are authorized to mount tachographs on vehicles. These companies can mount the RDUs, too.