



**TranspoNet Notification Center
User Manual**

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2 Important Notice



Before using the Pneumatic Tube System please read the manual carefully. This system has only to be used by persons who has been briefed. For programming previous knowledge is necessary. Keep manual for later use.

2.1 Copyright



The present manual is copyrighted. All rights reserved. It is not allowed to reproduce, to microcopy, to photocopy in some other ways, to record or incorporate with electronic systems, to duplicate or distribute this manual in any manner before previous written agreement by author.

No guarantee for the completeness or correctness of the contents of this manual is taken over.

The shown illustrations are to be considered as pure examples.

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2.2 Notes



The manual describes the technical state at the time of publication. Functions and operation are subject of change and may differ from those in this manual made representations and descriptions.

Some pictures and descriptions are additional options that are not part of a standard configuration.

3 Version history

Version	Author	Description	Date
1.0	D. Uthmann	Initial version	2019-04-23
1.1	D. Uthmann	Update layout	2020-12-02

4 Overview

TranspoNet Notification Center enables the TranspoNet PTS system to trigger user notifications.

TranspoNet Notification Center is a replacement for the old ComCenter Application whose support is canceled.

4.1 Notification sources:

- Carrier arrival
- System errors

4.2 Notification channels

- VOIP (voice over IP) phone call notification
- SMTP Mail notifications

4.3 Text to speech conversion

- TControl can send text message as phone voice call notification using a text to speech conversion. The conversion is done by the TranspoNet Notification Center

4.4 Some more facts:

- TranspoNet Notification Center is a more general communication application (without any PTS knowledge)
- Expose a rest interface for TControl
 - currently without authentication
 - to be used for local installations (TControl and TranspoNet Notification Center on the same sever)
 - remote usage need a VPN for security reasons
- Some configuration need to be done at TControl side as well

5 Prerequisites

- X64 bit windows operation system
- Installed .NET Framework 4.6.1 (or higher)
- TCP communication channel between Transponet TControl Software (might be a VPN or installed on the same server)

5.1 Voice interface

- Full routed UDP connection between the Server (hosting TranspoNet Notification Center) and the VOIP phone call system
- VOIP phone call system registration with user data

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- Text to speech library installed for the choosen language
Currently supported:
 - German
 - English
 - French

5.2 Mail interface

- TCP connection between the SMTP server and the server (hosting TranspoNet Notification Center)
- SMTP server user account data

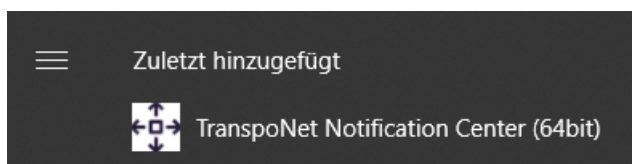
6 Installation steps

Use the current relase setup MSI **TranspoNet Notification Center-X.X.0.0-Release-x64.msi** in order to install the notification software.

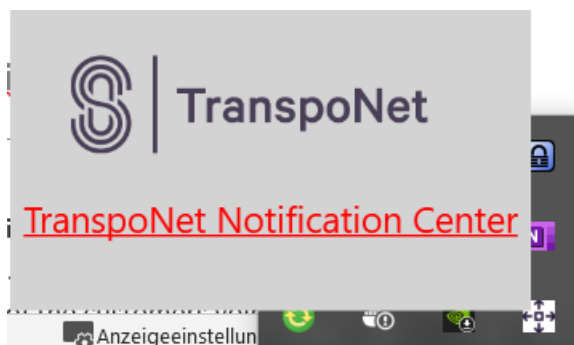
Any existing versions need to be deinstalled first.

After installation, the configuration menu can be opened using the start menu.

7 Initial configuration steps

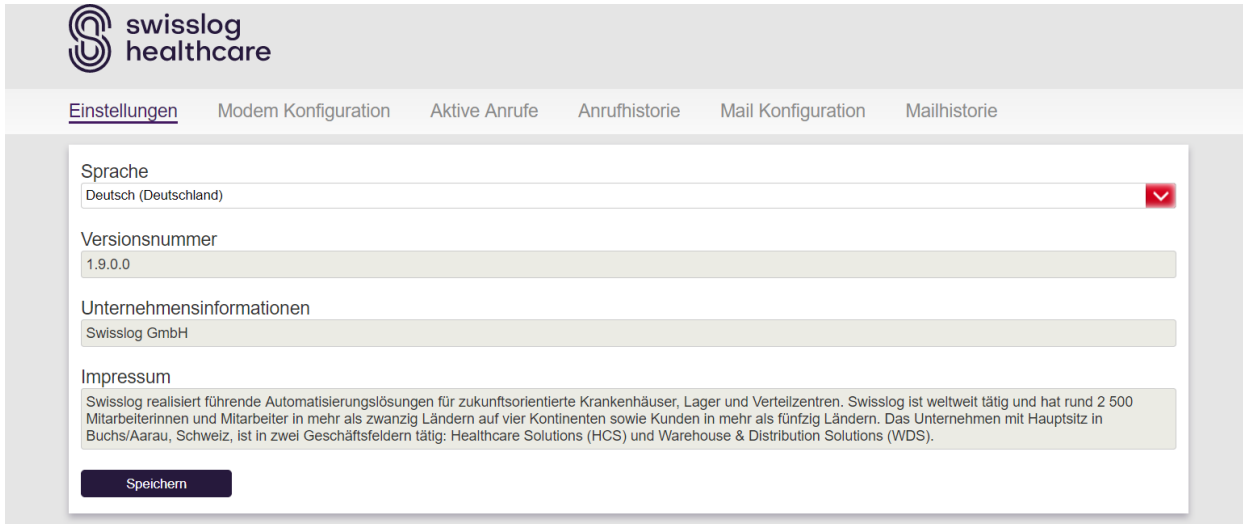


Starting the TranspoNet Notification Center will expose a tray item with a link to start the configuration panel



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This exposes the first configuration screen, where the version number is shown and the language can be chosen



The screenshot shows the 'Einstellungen' (Settings) page of the TranspoNet Notification Center. The header features the 'swisslog healthcare' logo and a navigation bar with links: 'Einstellungen', 'Modem Konfiguration', 'Aktive Anrufe', 'Anruflhistorie', 'Mail Konfiguration', and 'Mailhistorie'. The main content area is a white box with a light gray border. It contains the following sections: 'Sprache' (Language) with a dropdown menu showing 'Deutsch (Deutschland)' and a red checkmark icon; 'Versionsnummer' (Version number) with a text field showing '1.9.0.0'; 'Unternehmensinformationen' (Company information) with a text field showing 'Swisslog GmbH'; and 'Impressum' (Imprint) with a text area containing legal information. At the bottom of the white box is a dark blue button labeled 'Speichern' (Save).

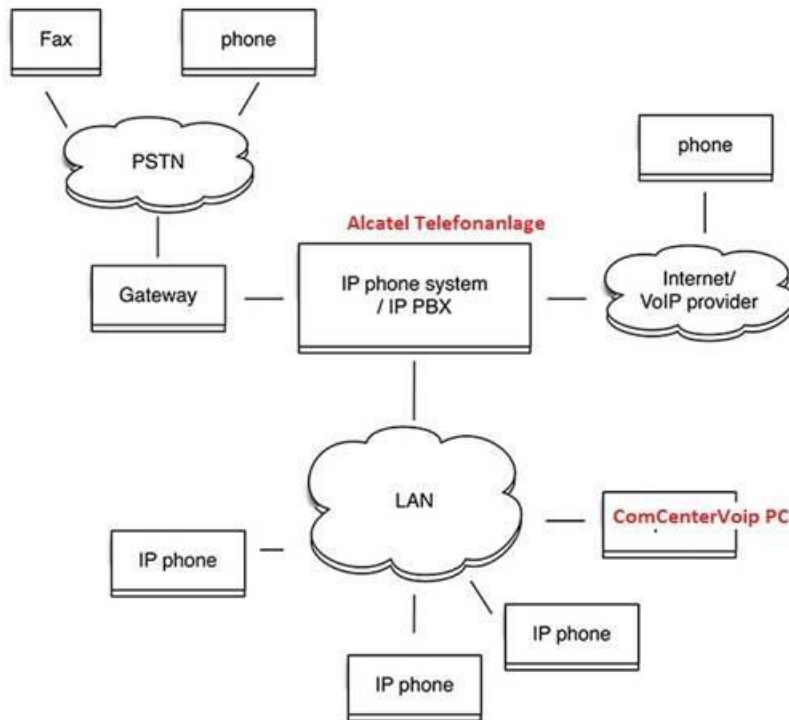
7.1 Phone channel configuration

Here the interface between the customers VOIP enabled phone system need to be configured

The TranspoNet Notification Center Software need to be registered at the phone system like any other VOIP phone

- The phone system must comply to the SIP VOIP (RFC 3261) standard (SIP base functionality common for every SIP VOIP phone system)
- Principal picture (TranspoNet Notification Center like a normal VOIP phone)

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- The phone system need to define a **user** with **password** and **callnumber**
- The phone system and the TranspoNet Notification Center PC need to be attached to the same LAN subnet or routed appropriately (full UDP connectivity in both directions needed)
- User / password / callnumber need to supplied in the TranspoNet Notification Center configuration panel (below)
- TranspoNet Notification Center will register at the phone system like a normal VOIP phone does
- The phone system is responsible for the subsequent call routing according the destination number
- A practical example using a FritzBox (router with included VOIP phone system) (the Steps 2, 3 and 4 must also be done with any other phone system):
https://avm.de/service/fritzbox/fritzbox-7390/wissensdatenbank/publication/show/42_IP-Telefon-an-FRITZ-Box-anmelden-und-einrichten/

 swisslog
healthcare

[Einstellungen](#) [Modem Konfiguration](#) [Aktive Anrufe](#) [Anrufliste](#) [Mail Konfiguration](#) [Mailhistorie](#)

Lokale IP Adresse
192.168.178.46

SIP Domäne / Modem IP Adresse
sipgate.de

Benutzername
2399563e0

☒ Nutze Proxy

☒ Nutze Registrar

Maximale Wiederholungen
0

Lokaler Port
5060

Ziel Port
5060

Passwort
.....

Proxy Server
sipgate.de

Registrar Server
sipgate.de

Speichern

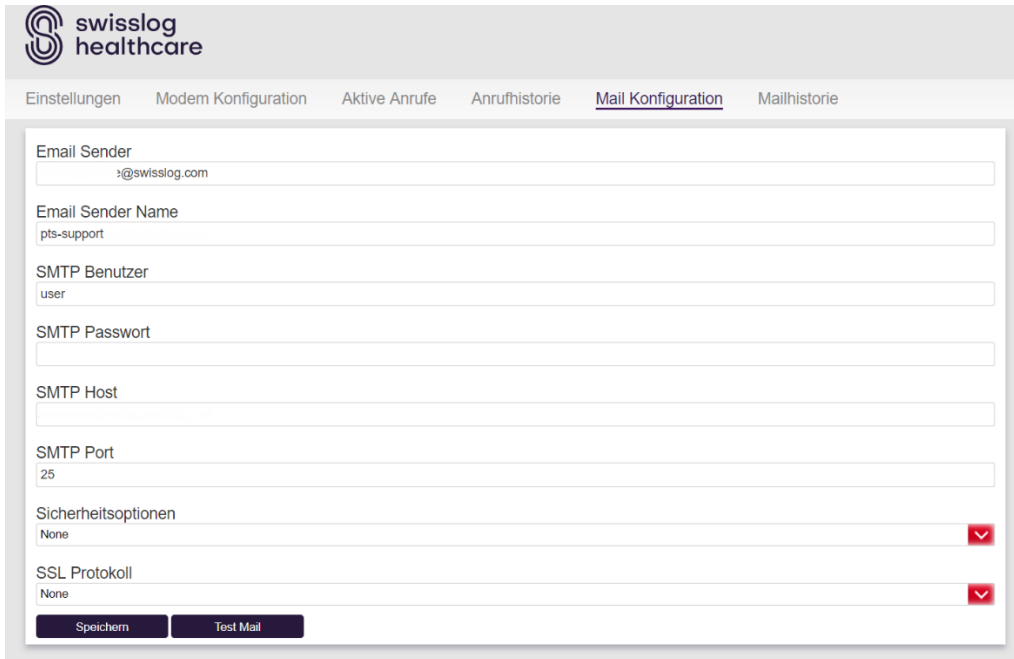
Testanruf

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- The Local IP Address is filled automatically
- The used UDP communications ports are filled automatically (need to match the phone system settings. Default 5060 will most likely work)
- SIP domain is the IP Address or hostname of the customers voip phone system
- Username (need to be registered at the phone system)
- Password (need to be registered at the phone system)
- Proxy Server (also the phone system server IP/Hostname)
- Registrar Server (also the phone system server IP/Hostname)
- Max retries (number of retries on error)
- The Test call dialog can be used to trigger test calls to check the configuration

7.2 Mail configuration

The interface to the SMTP mail server is configured here



The screenshot displays the 'Mail Konfiguration' page of the TranspoNet Notification Center. The page header includes the 'swisslog healthcare' logo and a navigation bar with links: 'Einstellungen', 'Modem Konfiguration', 'Aktive Anrufe', 'Anrufliste', 'Mail Konfiguration' (highlighted), and 'Mailhistorie'. The main form contains the following fields:

- Email Sender:** Input field with 's@swisslog.com'.
- Email Sender Name:** Input field with 'pts-support'.
- SMTP Benutzer:** Input field with 'user'.
- SMTP Passwort:** Empty input field.
- SMTP Host:** Empty input field.
- SMTP Port:** Input field with '25'.
- Sicherheitsoptionen:** Dropdown menu set to 'None'.
- SSL Protokoll:** Dropdown menu set to 'None'.

At the bottom of the form are two buttons: 'Speichern' (Save) and 'Test Mail'.

- Email sender will be the mail origin account
- Email sender name will be the mail origin account name
- SMTP user (need to be a registered user at the SMTP server)
- Password, the users password given on registration
- SMTP host (the hostname or IP address of the SMTP mail server)
- SMTP Port (the SMTP server port used for mailing)
- Secure socket option: the chosen security options defined at the SMTP server
- SSL protocol: the chosen security options defined at the SMTP server
- The Test Mail dialog can be used to send test mails to check the configuration

7.3 TControl client configuration

Important: Use TControl Version 5.1.0.4314 (or newer)

The TControl configuration is done using the following file:

C:\Program Files (x86)\Transpo.neT\TransponeT.cfg

The section **[TranspoNetNotificationCenter]** are used to define the interface between TControl and TranspoNet Notification Center

```
[ComCenterX]
URL=http://localhost:8787

; culture value is used for phone call notifications to select the text to speech language
PhoneCallCulture=en-GB
; The phone call notification text (need to belong to the choosen culture value)
PhoneCallNotificationText= Your carrier arrived

; base directory: C:\Program Files (x86)\Transpo.neT
; comment out to disable arrival mailing
CarrierArrivalMailTemplatePath= NotificationTemplates\CarrierArrivalMailTemplate.xml

; comment out to disable error/warning mailing
SystemErrorMailTemplatePath= NotificationTemplates\SystemErrorMailTemplate.xml
; separate receivers by ','
SystemErrorMailReceivers=dieter.uthmann@gmx.de, dieter.uthmann@lucon.biz
```

- URL: after TranspoNet Notification Center setup a local daemon is installed exposing its rest API at: <http://localhost:8787>
- Mail templates are within the subfolder C:\Program Files (x86)\Transpo.neT\NotificationTemplates
- The mail templates are self-explaining XML files with containing documentation (have a look into this XML files if mailing need to be customized)

8 Optional (Install additional text to speech languages)

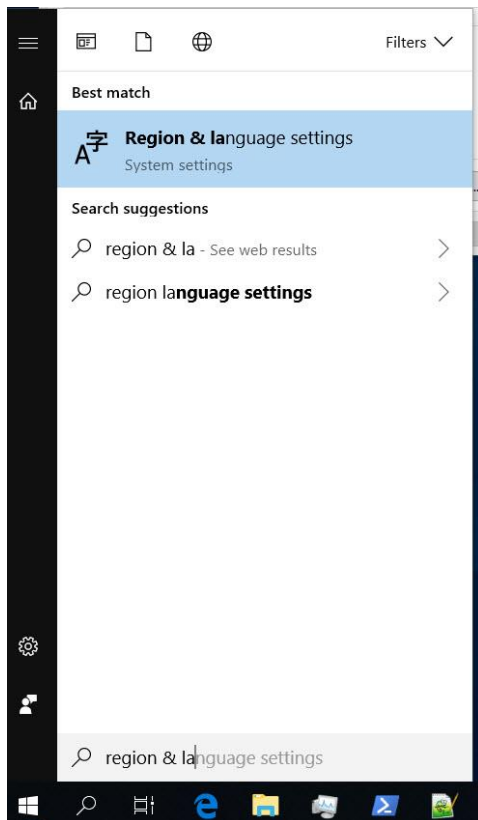
Dependend on the selected text to speech language an additional text to speech language package need to be installed at the TranspoNet Notification Center machine

```
[ComCenterX]
URL=http://localhost:8787

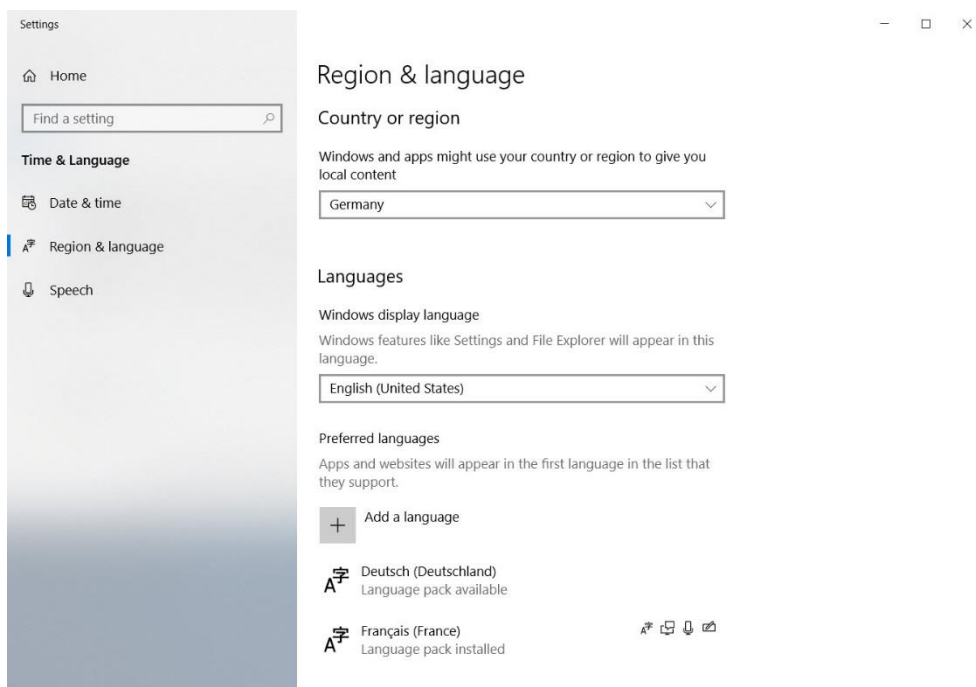
; culture value is used for phone call notifications to select the text to speech language
PhoneCallCulture=en-GB
```

From Start menu select: **Region & language settings**

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Choose: Add a language



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Choose a language to install

norw

JulevuSámegiella (Vuodna)

Lule Sami (Norway)

DavviSámegiella (Norga)

Northern Sami (Norway)

Norsk (bokmål)

Norwegian (Bokmål)

Norsk (nynorsk)

Norwegian (Nynorsk)

Norsk bokmål (Svalbard og Jan Mayen)

Norwegian Bokmål (Svalbard & Jan Mayen)

ÅarjelSaemiengiele (Nöörje)

Southern Sami (Norway)



Display language



Text-to-speech



Speech recognition



Handwriting

Next

Cancel

Install language features

Selected language: Norsk (bokmål)

☐ Set as my Windows display language

Choose optional language features you want to install.



Speech (17 MB)



Handwriting (16 MB)

[Choose a different language](#)

Install

Cancel

Under **Languages** select the language to install

Region & language

Country or region

Windows and apps might use your country or region to give you local content

Languages

Windows display language

Windows features like Settings and File Explorer will appear in this language.

Will be display language after next sign-in

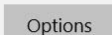
Preferred languages

Apps and websites will appear in the first language in the list that they support.

+ Add a language

 Deutsch (Deutschland)
Language pack available

Under: **Language options** select the Speech package to install

🏠 Deutsch (Deutschland)

Language options

Download language pack

Download

Use post-reform rules

☒ On

Handwriting (8 MB)

Download

Speech (92 MB)

Download

Keyboards

+ Add a keyboard



German
QWERTZ

9 Operation

9.1 Tab: Current calls

Possibility to view and cancel currently running calls

9.2 Tab: Call history

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 **swisslog
healthcare**

EinstellungenModem KonfigurationAktive AnrufeAnruflhistorieMail KonfigurationMailhistorie

Verarbeitet	Zuletzt bearbeitet	Status	Telefonnummer	Nachrichtentext	Fehlversuche	
30.11.20, 16:31	30.11.20, 16:31	Success	00495931845165	a simple test message	0	<button>Details</button>
30.11.20, 15:48	30.11.20, 15:49	NotAnswered	005931845165	a simple test message	1	<button>Details</button>

Items per page: 101 - 2 of 2<>

Export als CSV

- The state of the history calls can be reviewed
- The history list can be exported to a CSV format
- The details button reveals more information and the possibility to repeat a call

Nachrichtendetails

Status NotAnswered
Telefonnummer 005931845165

Nachricht

a simple test message

Nicht geantwortet 1
Besetzt 0
Systemfehler 0

Telefonnummer

Einstellen

Abbrechen

9.3 Tab: Mail history

- The state of the history mails can be reviewed

10 Troubleshooting

10.1 A logfile is written at the following location

- Goto Windows File Explorer

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- Type into address line: %ProgramData%
- The logfile can be found e.g.: C:\ProgramData\swisslog\TranspoNet Notification Center\logs



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