Consat Telematics Solution

TS Administrators Reference Manual

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1 Introduction

The manual in your hands (or on your screen) covers all the administrative functions required to administer users, roles, and user configurations for the Traffic Studio application.

Administrators have "PowerUser" access in Traffic Studio. The top access, "SuperUser", is normally only available to Consat personnel and provides functionality for complex system setup.

Normally, Consat will perform all advanced system configurations, setting up a basic set of user roles with configurations that you as administrator (PowerUser) can then edit, copy and add users to. Consat normally also configure tool placement and define how each tool window is presented in the Application etc.

1.1 Default Role Configuration (Performed by Consat)

As stated, a Consat Telematics TM (Traffic Monitoring) system is normally delivered with several pre-defined user roles, set up by Consat to suit your needs

To simplify the specification of these roles, the list below explains the basic functions that can be specified by you for each role.

The delivered roles can then be edited/copied etc. by you as the system administrator to suit your changing needs.

Role Functionality	Description
User log-in inside/outside domain	Users placed outside the system domain log in through a web service. The path is provided by Consat (specified in dialogue with the customer).
Local Configuration File write functionality	The local configuration file in each Traffic Studio computer will normally work as a fallback whenever the central configuration database cannot be accessed.
	If you specify that changes to the configuration are to be saved in this local file, the fallback configuration can be kept up to date (follow the configuration specified in the database), but it can also be "damaged" by faulty configuration.
	On the other hand, if you specify that changes in the configuration will not be written to the local file, it will work as a "factory" default configuration, providing tamper-protected basic functionality when the configuration database cannot be accessed.
Prevent Specific Configuration Changes	As a complement/alternative to write-protecting the local configuration file, specific settings in the applications can be protected from configuration changes. This function is extremely flexible as any part of the application configuration can be write- protected. Discuss your needs with Consat if you need to prevent changes to specific functions, tools, etc.

Role Functionality	Description
Toolset/role	Each pre-set role will have a basic tool-set included by default (selected from the list of TrafficStudio tools ordered by the customer). As an administrator, you can then add or remove tools from the role as needed, or copy the role and make changes in the toolset, see the following chapter for how to change the toolset in a configuration.
Individual tool configuration in the application framework	 Each tool placement and basic framework functionality can be configured by Consat to suit your needs. The following functions can be set for each tool: Tool placement (left, bottom, top application window- or separate floating tool window. Note that some tools need to be placed in rectangular "vertical"/"horizontal" tool windows for the user interface to function properly.) Tool auto start (automatically activated, in configured position, when the application is started) Display placement when two displays are used: Primary/Secondary display Tool Close button (in the tool tab) enabled/disabled. (If needed, crucial tools can be prevented from being closed by the user, for instance, Voice communication or other important communication tools may be configured this way to prevent missed messages, etc.) If needed, the application can also be configured to start with one tool in full-screen mode. For instance, if the workstation is to be used for one specific task.
Maximized Application Window	The TrafficStudio application can be configured to open in the maximized mode in Windows.
Application log	The number of user roles applied to the user.

In Traffic Studio, a configuration is mainly applied to user roles, but in some cases, individual users and individual computers can have specific configurations. (Note: A user may be assigned several roles and may have access to multiple configurations, selected when he/she login to the application.)

Here, we will show you how to administer users and user roles (chapter 2) and how to manage configurations applied to these users, roles, and individual computers (chapters 3 and 4).

1.3 Basic Functionality and Workflow

Configuring Traffic Studio includes the following basic steps:

- 1. Define base roles and their pre-set role functionality *together with Consat* (see section 1.1 above)
- 2. Create users and apply roles to users, see chapter 2

If needed, create new roles based on the pre-defined roles, see chapter 2

- 1. Administer/edit configurations applied to roles.
- 2. If needed: Edit individual user/computer configurations: (Tool setup etc.)

To administer users and roles, the **User Manager** Traffic Studio tool is available to you as PowerUser. Depending on your default roles **you will find the tool in the regular Tool menu.**

Externally created Users and Groups (Roles)

In some systems, users and groups (roles) can also be defined outside the application if such a workflow is preferred. See the Window's user manual for more information about how to set up and edit users and groups (roles). Note that the User manager tool cannot view/edit these users/groups.

2.1 User Manager: Tool Overview

The User Manager tool lists users and user roles on two separate tabs. On each tab, you will find function buttons for adding, editing, and removing users and roles, respectively.

When you select a user/role, the edit section below shows the available details for this item.

- If you are an administrator handling multiple companies, a top company filter lets you list either the users/roles in **all** companies or the users/roles of **a selected** company.
- If you are a Power User without access to some roles, these will be greyed out and highlighted with a lock symbol in the role checkbox list in the details section. You cannot add/remove users from roles you do not have access to/belong to.
- The Users tab also includes filters for focusing the list, these filters are described below.

Tab U	ser Roles Tab						
Users Use	r roles	Compan	y Filter				User role and free text filters (View o
Company (32/ Company	32) Vsername	Employee number	Given name	Surname	Description	3/5 Number of Roles	users with selected roles and/or cells matching the free text content)
2.1 Nordhordland (21)	NordHPower					7	
2.1 Nordhordland (21)	NordHPowerUser					1	
2.2 Bergen sør (35)	user					1	
Remove	Add Save	Cancel					

Users Users Us	er roles						
Company (32	/32) • U	ser roles (21/22) 🔻	۹			3/5	
Company	Username	Employee number	Given name	Surname	Description	Number of Roles	
2.1 Nordhordland (2	1) NordHPower					7	
2.1 Nordhordland (2	1) NordHPowerUser					1	
2.2 Bergen sør (35)	user					1	
User Details		•					
Company	2.2 Bergen sør (35)	~]				
Username *	user						
Password *	****						
Enable login	√						
Employee number							
Given name							
Surname							
Description			To ec	lit user de	etails, inclue	ding password and	
User role	User roles (1/21) 💌	corre	sponding	roles (ment g row. A det	ails/edit section	
	Pow	er User	belov	v the list	will show.		
Remove	Add Save	e Cancel]				

The Company Filter

Use the company filter to either list the users of all the companies you administer or only cover a selected company. Open the menu by clicking on the menu button and click to select one of the available items in the list. The "Administration company" includes all companies in your system.

Company (32/32)			
Select All			
✓ 1.2 Sunnhordland 1.2 Sunnhordland 20			
✓ 1.3 Hardanger/Voss 1.3 Hardanger/Voss 31			
✓ 1.5 Modalen-Vaksdal 1.5 Modalen-Vaksdal 5			
✓ 2.1 Nordhordland 2.1 Nordhordland 21			
✓ 2.2 Bergen sør 2.2 Bergen sør 35			
✓ 2.3 Bybanen 2.3 Bybanen 1			
✓ 2.4 Bergen nord 2.4 Bergen nord 33			
✓ 2.5 Bergen sentrum 2.5 Bergen sentrum 34			
✓ 2.6 Osterøy 2.6 Osterøy 32			
✓ 2.7 Vest 2.7 Vest 10			
✓ 2.91 inie 2.2.91 inie 2.36			

2.2 Administer User Roles (User Roles Tab)

If the pre-defined set of roles supplied by Consat is insufficient to cover your needs, you can edit or copy and then edit any of the pre-set roles to set up the roles you need.

As users are to be assigned different roles, you normally first define the roles that are to be available in your system. This is a simple naming procedure.

The user roles tab contains a role list with a separate description column (for describing the role).

- Note: So-called Role Grants can allow the users with that role to access specific functionality/data, see below.
- Note: If you are not a Super User, only the roles you belong to will be presented in the list.
- Note: If you are not a Super User and create a new role, you will automatically be added to that role (making it visible in the list)

🚇 Users 🕼 U	Jser roles
Q	21/23
Role name	Description
Magnus Test Roll 3	
Magnus 2	Test
Magnus 1	Test
Users	l4m Users
Trafikledare - lars	
TomasTestTidzon	TomasTestTidzon
Tetra TLI test	Tetra TLI test
TestPowerRole2	TestPowerRole2
test	test
Role without config	Let me be
NordHPowerRole	NordHPowerRole
MarkusTest	MarkusTest
Magnus	
LOWERCASE	Test of casing between role & configuration
Import	Traffic data Import
Endast statistics	
User Role Details	
Role name Toma	sTestTidzon
Description Toma	sTestTidzon
Role Grants	
Allow CCTV down	load 🗌
Administer Traffic	Changes for all companies
Assignments: Acce	ss other companies journeys Companies (0/34) 🔻
Traffic deviations:	available publication channels Publication channels (0/3)
Remove	Add Save Cancel

Click on a row to edit role name and/or description in the separate details field.

A Role Grants section enables configuration of available functionality/access for the role.

Role Grants

Role Grants set basic functionality/access for the user role. You can allow the role to download CCTV media (using the CCTV Media tool), administer traffic information for all companies and assign vehicles to other companies' journeys (for reinforcement, etc.). Checkboxes to include that functionality.

Traffic deviations can be publicized over multiple channels (to multiple receivers). In the Publication channels menu, you configure which channels are to be available to the role.

Role Grants		
Allow CCTV download		
Administer Traffic Changes for all companies		
Assignments: Access other companies journeys	Companies (0/34)	•
Traffic deviations: available publication channels	Publication channels (0/3)	•

Add User Role

1. If a row is selected, click on Esc to deselect it. Click on the Add button to open a new empty role details field.

Add	
Add	

2. Enter the new role name (mandatory) and, optionally, a descriptive text in the description field.

If applicable check the appropriate boxes in the Role Grants section (see description above).

User Role Det	ails	
Role name	TomasTestTidzon	
Description	TomasTestTidzon	
Role Grants		
Allow CCTV	download	
Administer	Fraffic Changes for all companies	
Assignment	s: Access other companies journeys	Companies (0/34) 🔻
Traffic devia	tions: available publication channels	Publication channels (0/3) 🔻

3. Click on the Save button to save the role.



Edit User Role

- 1. Click on a role (row) to select it.
- 2. Edit the name/description/role grants.
- 3. Click on the **Save** button to save your changes.

Remove User Role

- 1. Click on a role (row) to select it.
- 2. Click on the Remove button.

2.3 Administer Users (Users tab)

On the Users tab, you will find all users created by the User Manager tool. You can add or remove users and change names, settings, role(s), etc.



Column description

Header	Description
Username	User name
Employee number	Employee number.
Given Name	The user's first name(s)
Surname	The users' surname
Description	Descriptive text
Number of roles	The number of user roles applied to the user.

The User Roles Filter

Use the user roles filter to only view users with certain user roles.



Free Text Filter

Use the free text filter to narrow down the user list to only include users with at least one matching cell (these are highlighted in the list).

		Ente only cell.	r text/nu include u	mbers: isers wi	The list w th at leas	rill be filtered t one matchir	to ng Filter effect: Displayed users/total number
Users Users Use	r roles 32) V	ser roles (21/22)		Sumama	Description	2/5	
Company 2.1 Needbard (21)	Username	Employee number	Given name	Surname	Description	Number of Roles	
2.1 Nordhordiand (21)	NordhPowerUser						
2.2 Bergen sør (35)	user					1	
Remove	Add Save	Cancel					

Add User (and assign roles)

- 1. Click on the Add button to open a new, empty, details field.
- 2. Enter user details. The fields highlighted with "*" are mandatory.

User Details	
Company	2.2 Bergen sør (35) v
Username *	
Password *	
Enable login	✓
Employee numbe	
Given name	
Surname	
Description	
User role	User roles (0/21) 🔻
	Power User

3. In the user roles menu, check the roles the user is to have.



- 4. If the user is to have PowerUser (administrator) access, check the PowerUser checkbox
- 5. Click on the Save button to save the user

Edit User

- 1. Select the user in the list by clicking on the corresponding row.
- 2. In the edit field below, change the information/settings that are to be updated.
- 3. Click on the **Save** button to save the changes.

Remove User

- 1. Select the user in the list by clicking on the corresponding row.
- 2. Click on the **Remove** button, the user will be removed immediately (no confirmation dialogue).

Privileged

3 Administer Configurations

File > Setup > Configuration Manager

Individual Traffic Studio Configurations are administered with the Configuration Manager, a floating configuration window available to power users.

Note: Super Users have access to more functionality in this tool for viewing and comparing configurations in detail. See the Super User Manual for more information.

Here, you get an overview of all configurations in the system. Below the configurations list, you will find function buttons for:

- 1. Loading a selected configuration into Traffic Studio (for viewing details, and editing)
- 2. Saving the currently selected/loaded and edited configuration to the same target.
- 3. Copying a configuration (saving a loaded configuration to another target, overwriting the current configuration)
- 4. Removing/deleting a selected configuration

The floating Configuration Manager lists all individual configurations in your system.

Like other list views, the Configuration Manager list can be filtered using a free text filter, a type filter, and sorted by any column to allow focusing on the information you need.

	*	Configuration Man	ager		-ONGI		-	Click on a column bea
	Tree	Q	Type (3/3) 94/94	Computer	Language	Time tope	Modified time	sort the list by the co
	iyp ()	demo	Magnus	computer	sv-SE	Time 2011e	04/04/2022 13:19 1111	In that column. Click a on the same header to
ons differentiate role,		zenobia1	Import		sv-SE		08/31/2018 16:41 1109	in reverse order.
nfigurations		demo	Import				08/22/2022 10:31 1108	
		tim	Consat				08/15/2018 11:06 1106	
\backslash		demo	Consat				10/31/2022 11:52 1105	
		niclas.lindgren	Consat		sv-SE		06/05/2020 14:15 1104	
		demo	Trafikledare - lars				05/18/2022 13:32 1102	
		test	Users		sv-SE		05/18/2018 12:43 1097	
		lars	Users		sv-SE		05/09/2018 07:38 1095	
		demo	Tetra TLI test		sv-SE		02/02/2022 12:13 1094	
		demo	TomasTest		sv-SE		10/19/2022 14:50 1090	
		TomasM	Users		sv-SE		09/01/2017 11:56 1089	
	2	magnuss	Users		sv-SE		07/25/2017 11:09 1087	
		jonas.fardig	Super Users		sv-SE		10/31/2016 13:43 1086	
	2	magnus.janbro	KA_G_2		sv-SE		10/25/2016 16:38 1075	
		kalle	KA_G_2		sv-SE		10/25/2016 16:04 1074	
	2	i4m	Super Users		sv-SE		10/10/2016 14:17 1068	
		magnus.janbro	Super Users		sv-SE		10/26/2016 14:36 1067	
		tomas.midbratt	ITS4 Trafikkleder Telefon BTS		sv-SE		10/10/2016 11:42 1060	
		demo	Users		sv-SE		03/10/2022 12:23 1	
			CL-ChargePoints		sv-SE		09/08/2022 13:17 1165	
			CL_Trafikledare		(Default)		09/28/2022 10:46 1164	~
	Liter	demo	U					
	Role	* Users						
	Com	puter	~					Load
	Lanc	uage svenska (Sverige) (Swedish (Sv ~				Import Remove	Add New

In the configuration details section, you view details for the selected configuration. Here you also select a user/role/computer configuration to

save the currently loaded configuration to.

Function buttons for loading the Traffic Studio application with a selected configuration, for saving the currently loaded configuration to the same or another target and removing (deleting) a selected configuration. The Import/Export buttons lets you import or export a configuration from/to a file.

Header	Description
Туре	The symbol indicates the configuration target/user: - Role - User (logged in as role) - Computer (logged in as role)
User	User Name.

Header	Description
Role	Role Name
Computer	Computer Name
Language	Default language (languages depending on system)
Time Zone	Available time zones, selected at login. If no time zone is selected in the menu/displayed in the column, all system time zones will be available to the user at login.
Modified Time	Time Stamp, showing last change
ID	Configuration ID

Most editing of a configuration is performed within Traffic Studio with that specific configuration loaded. To make changes to a configuration you first use Configuration Manager to load the configuration in Traffic Studio.

The Traffic Studio application window will load the complete configuration – all tools, settings, etc. so that you can make any changes in the various configuration menus in the Setup menu– and then save it with the Save button in the Configuration Manager, see the following page.

When Traffic Studio is loaded with another configuration than your own, the top and bottom sections of the application window will be highlighted blue and the loaded configuration will show in the lower right corner of the application, see the image below.

To load a configuration into Traffic Studio, select it in the Configuration Manager window and click on the Load button.

Traffic Studio will load the selected configuration. The Traffic Studio window will now be highlighted blue to show that another configuration than your own has been loaded. The loaded configuration will show in the bottom user row (see details window).



3.3 Load, View, and Edit Configuration

To view, and maybe edit a configuration in the list, do this:

- 1. Select the configuration you want to view/edit (click on the corresponding row).
- 2. Click on the Load button.

The Traffic Studio window will load the selected configuration. To highlight that a configuration other than the one you logged in as is loaded, the window gets blue top and bottom bars. In the configuration manager window, the icon of the loaded configuration is also highlighted blue.

You can proceed to connect the application to a configured system and check the toolset etc. to verify that the configuration is correct. Disconnect to open the setup menu to make changes in the configuration, see the example below.



- 3. If needed, edit the configuration using the available sub-menus in the Setup menu (see chapter 4).
- 4. Save any changes by clicking on the Save button in the Configuration Manager.

sv-SE 03/10/2022 12:23 1 sv-SE 09/08/2022 13:17 1165 (Default) 09/28/2022 10:46 1164	2	sv-SE	10/10/2016 11:42	2 1060		
sv-SE 09/08/2022 13:17 1165 (Default) 09/28/2022 10:46 1164 Load		sv-SE	03/10/2022 12:23	3 1		
(Default) 00/28/2022 10-46 1164		sv-SE	09/08/2022 13:17	7 1165		
Load Import Remove Add New		(Default)	00/28/2022 10-46	1164		~
Import Remove Add New						Load
					-	
Export Cancel Save			Imp	ort	Remove	Add New

3.4 Copy a Configuration to another User/Role/Computer

As an administrator, creating a "new" configuration means copying an existing configuration and saving it to another "location": A "user logged in as selected role", to another role or to a "computer logged in as selected role", replacing that existing configuration. You can then load and edit the copied configuration to make it unique.

- In a new system, setting up configurations/roles normally start with a default configuration (created by Consat) that is then copied and edited to make all the desired roles/configurations.
- Note: Make a habit of separating "copying" configurations and editing configurations, so as not to save unwanted changes to the original configuration by mistake. First "copy" the configuration and then load, edit and save the copy.
- 1. Load the Role or User configuration you want to "copy" by selecting (clicking on the row) and then clicking on the Load button.

Tree IIr		Role	Computer	Language	Time mae	Modified time	ы		
(I) den	10	Magnus	Computer	ev-SE	time zone	04/04/2022 13:19	11111		
(1) 200	obia1	Import		av-55		08/31/2018 16-41	1109		
(R) den	10	import				08/22/2022 10:31	1108		
(1) tim		Conset				08/15/2018 11:06	1106		
(1) den	10	Conset				10/31/2022 11:52	1105		
	as,lindoren	Consat		sv-SE		06/05/2020 14:15	1104		
(1) den	10	Trafikledare - Jars				05/18/2022 13:32	1102		
(1) test		Users		av-SE		05/18/2018 12:43	1097		
(1) les		Users		ev-SE		05/09/2018 07:38	1095		
(1) den	10	Tetra TLI test		B2-54		02/02/2022 12:13	1094		
(1) den	10	TomasTest		av-95		10/19/2022 14:50	1090		
(A) Inc	Max	Users		w-9		09/01/2017 11:56	1089		
(1) ma	20142	Users		ev. G		07/25/2017 11:09	1087		
(B) inn	as factio	Suner Users		20,00		10/31/2016 13:43	1086		
(B) ma	nus innhro	KA G 2		ev-96		10/25/2016 16-38	1075		
(1) kall		KA G 2		sv-SE		10/25/2016 16:04	1074		
		Sunar Usars		20.00		10/10/2016 14:17	1058		
() ma	nous ianhro	Super Users		ev.95		10/25/2016 14:36	1057		
	prosperato					10/10/2010 11:00	1001		
den	10	Users		a-9		03/10/2022 12-23	1		
	-	CL-ChargePoints		w-9		09/08/2022 13:17	1165		
CL-Charger		Cl. Dafibledare		(Default)		09/28/2022 10:46	116.4		
onfigurat	ion Details								
User	demo								
Role *	Users								Load
Computer								-	
Language	svenska (Sverige) (Swedish (Sv 🗠				Impo	on	Kemove	Add Net

2. Click on the Add New button. The details field under the list is cleared.

	CL. Trafikledare	(Default)	00/28/2022 10-46 1164 V
Configuration	on Details		
User	demo v		
Role *	Users v		load
Computer			
Language	svenska (Sverige) (Swedish (Sv $~^{\vee}$		Import Remove Add New
Time zone	(0/2) 🔻		Export Cancel Sa Add N

- 3. Select either a Role, a User, and a Role (user logged in as role) or a Computer and a Role (computer logged in as role) in the menus to receive the configuration.
- 4. Select a default language and the time zone(s) that are to be available upon login. (If no time zone is selected in the menu, all *system* time zones will be available to the user at login.)

Configuratio	n Details
User	×
Role *	×
Computer	_Group1 (CONSAT)
Language	_Group2 (CONSAT)
Time zone	_Group3 (CONSAT)
	CCTV (DbConfig. Resource)
	ChargeVy (DbConfig, Resource)
	CL-ChargePoints (DbConfig, Resource)
	CL-Trafikledare (DbConfig, Resource)

5. Click on Save to save the configuration to the selected target.

3.5 Import Configuration from File

- 1. Load the Role or User configuration you want to import the configuration to by selecting (clicking on the row) and then clicking on the Load button. The import and Export buttons become active.
- 2. Click on the Import button. A browse window opens. Navigate to the file, select it and click on "Import" to import the configuration to the selected role/user.
- 3. Click on Save to save your changes.

3.6 Export Configuration to File

- 1. Load the Role or User configuration you want to export by selecting (clicking on the row) and then clicking on the Load button. The import and Export buttons become active.
- 2. Click on the Export button. A browse window opens. Navigate to the place you want to save the configuration file, select it and click on "Export" to create the file.

To clean up the configuration list you can remove configurations. Of, course, this function is to be used with caution.

1. Select the configuration that is to be removed

	Consat	sv-SE	W. Europe Standard Time, Eastern Standard Time	11/04/2022 17:30 1103	
۲	Trafikledare - lars	sv-SE		01/24/2022 11:10 1101	
۲	Tetra TLI test	sv-SE		02/05/2018 14:13 1093	
۲	TomasTest	(Default)	W. Europe Standard Time	10/28/2022 17:21 1088	
	ITCA THEILING DTM	(D (10/21/2016 11:20 1005	
Configuratio	n Details				
User	v				
User Role *	Consat v				load
User Role * Computer	Consat v				Load
User Role * Computer Language	Consat v svenska (Sverige) (Swedish (Sv ~			Import	Load Remove Add No

2. Click on the **Remove** button – the configuration will be removed from the database immediately

	Consat	sv-SE	W. Europe Standard Time, Eastern Standard Time	11/04/2022 17:30 1103	
۲	Trafikledare - lars	sv-SE		01/24/2022 11:10 1101	
۲	Tetra TLI test	sv-SE		02/05/2018 14:13 1093	
۲	TomasTest	(Default)	W. Europe Standard Time	10/28/2022 17:21 1088	
	ITCA TooChildedee DTM	(D = f = k)		10/31/2016 11:20 1005	\sim
Configuratio	on Details			Import	
Role *	Consat ~			Export	Load
Computer	~ ~ ~				LUAU
Language	svenska (Sverige) (Swedish (Sv 👋			Import Remove	Add New
Time zone	Selected (2/2)			Export Cancel	Save

4

Make changes to the loaded configuration

As an administrator (PowerUser), you can change basic system functionality, the tools available in each (role) configuration, and also change the set-up of the individual tools.

- When you load a **role configuration** you can configure basic system functionality and the available toolset for that role, as well as configure information presentation and the individual tools in the selected toolset.
- When you load a **user or computer configuration** you can only configure the information set up in Traffic Studio and set up the individual tools. The top Systems and Tool (Plug-in) Manager menu alternatives will be greyed out.



4.1 Set Basic System Functionality (Loaded Role)

File > Setup > Systems>Edit Selected System

As a PowerUser, you can configure basic presentation settings and configure read-onlyfunctionality for some system services, per role. This is performed in the System Definition window on two separate tabs: Appearance and Services.

Open the **System Definition** window by selecting **Systems** in the Setup menu, this opens the Available Systems menu. Select the system you are to edit settings for and click on the **Edit** button to open the System Definition window, see below.

	MsgRtf H	lost	MsgRtr Port		
Test5	192.168.1	140.145	21000		
					-
		Delete	Edit	Сору	Close

Key Code

System Definition								×
General Name Key Code System Type	Test5 V2R0B010001 Large	0101000000	04000102010	80B0F00080B01	F02000008040	F 😧		
Appearance Services								
Vehicle Numbering Late: Prefix Show Only Resource Vehicles		> 5 >	digits					
					0	Apply	3 с	ancel

Key Code

Determines which functionality/tools will be available and which will be locked. The code is supplied by Consat for each role and system.

Click on the "?" button to view which tools/functions are available/locked, see following section.

View Available/Locked Functionality

Click on the "?" button to open the Key Code window. Here, all tools and all key-codecontrolled functionality are listed. Locked tools/functions have locked symbols, see below.



Appearance tab



After you have made changes, click on the Apply button to save.

System Definition			×	
General Name	Test5			
Key Code	V2R0B01000101010000000400010201080B0F00080B0F02000008040F			
System Type	Large V			
Appearance Services				
Multimedia	☑ i4mtest5.tmix.se		^	Deed Orth
Statistics	✓ net.tcp://i4mtest5.tmix.se]		Read Only
Data Import	net.tcp://i4mtest5.tmix.se]		Check to make the service read only (for the loaded role), letting users
Vehicle Statistics Db	net.tcp://i4mtest5.tmix.se			only view information not
Events	net.tcp://i4mtest5.tmix.se			create/save/publish/assign.
Text-to-Speech	net.tcp://i4mtest5.tmix.se]		
Vehicle Manager	net.tcp://i4mtest5.tmix.se]		Currently, you can set Assignments
Assignments	net.tcp://i4mtest5.tmix.se			Traffic Information (the "Multimedia
Equipment	net.tcp://i4mtest5.tmix.se]		Service) to read only mode.
Connection monitor	✓ net.tcp://i4mtest5.tmix.se			
Display	✓ net.tcp://i4mtest5.tmix.se			
Report Sheet	v net.tcp://i4mtest5.tmix.se			
Station management	✓ i4mtest5.tmix.se			
Forecast	net.tcp://i4mtest5.tmix.se			
GeoCoverage	i4mtest5.tmix.se			
Geocoding	✓ net.tcp://i4mtest5.tmix.se			
Transit Map	v net.tcp://i4mtest5.tmix.se			
Road situation	v net.tcp://i4mtest5.tmix.se			
Planned Traffic				
	net.tcp://i4mtest5.tmix.se			
	User Name admin Password *****			
	Test Connections			
			-	

Services Tab (Power User)

- You can check the connections to the services used in the system by clicking on the Test Connections button. A green hatch by each service will show an OK connection, red crosses will indicate missing connections, impairing system functionality.
- After you have made changes, click on the Apply button to save.

Use Paths

on a server.

4.2 Define Toolset (Loaded Role)

File > Setup > Tool (Plug-in) Manager

In this window, you select the plug-ins (containing Traffic Studio tools) to be available to all users of the loaded Role.

You can add, remove and save your choices by using the buttons at the bottom of the window.

The tools are displayed with their [rather technical] plug-in names in the Available plugin window.



View tools in plug-in

A plug-in may contain many tools or reports. To view the specific tools (with their proper tool names) in a listed plug-in, select the plug-in in the list and click on "Content", see below. The tools are listed in a separate Content window.

Available Tools (plugins)		×		
Name				
Selected		-		
I4mCustomerSupport.dll				
l4mDbViewer.dll	Cor	tent —		×
I4mIMFace.dll		[I4mProcess base class]		
I4mLineList.dll		[Finite roccess pase class]	-	
I4mMapStopPointSelector.dll		Assignment Report	176	
I4mStatistics.dll		Daily Diagnostics Report	175	
This Can CM Rhugin ConnectionMonitor dll		Detail Report	L 169	
Tmix.Cap.Events.Plugin.EventViewer.dll		Detail Neport	103	
Tmix.Cap.StationMgmt.Plugin.StationManag		Deviations Report	172	
l4mLineViewer.dll		Headway Report	1 70	
l4mCamera.dll				
Tmix.Cap.InternalTool.Plugin.UserManager.dll		Journey Time Report	171	
I4mAssignment.dll		Line Report	1 95	
Tmix.Cap.Mapping.Plugin.TiledMap.dll		Link Time Report	210	
Tmix.Cap.VehicleMgmt.Plugin.TrafficStatus.dll		Passenger Reports	194	
Tmix.Cap.VehicleMgmt.Plugin.VehicleDiagnos I4mDriverId.dll		Punctuality Report	172	
Tmix.Cap.Geofence.Plugin.GeofenceManager	2	Route Checker	216	
I4mLineNetwork.dll			_	
Imix.Cap.internallool.Plugin.AppViewer.dll		Statistics		
Imix.cap.internation.Plugin.Logviewer.dll		Traffic Log Report	🔒 196	
Tmix.Cap.DigitalSignage.Plugin.MyDisplays.dll		Vahicle Assignment and Communica	Ω 172	
Tmix.Cap.FaultMgmt.Plugin.FaultViewer.dll		venicle Assignment and Communica	1/5	
Tmix.Cap.TdImport.Plugin.ImportTool.dll		Vehicle Speed Report	174	
Available	-			
l4mCableViewer.dll				
I4mEquipment.dll				
I4mMap.dll				
l4mMsgTestPlugin.dll				
I4mPtc.dll				
I4mSwitchViewer.dll				
iamietraopg.aii				
Imix.cap.Geocoverage.Plugin.SnowPlowvas				
Tmix Cap InternalTool Plugin KmlView dll		mobility		
Tmix Can Tetra Plugin RadioPositions dll				
Tmix.Cap.Ti.Plugin.GskGatewayStatus.dll				
Tmix.Cap.VehicleMgmt.Plugin.LogTool.dll				
Use Paths				
Content Add Delete OK	Cancel			

4.3 Configure Tooltips and Labels

File > Setup > Tooltips and Labels

• See the Reference Manual.

4.4 Configure Vehicle Presentation

File > Setup > Vehicle Presentation

• See the Reference Manual.

4.5 Configure Line Groups

File > Setup > Vehicle presentation > Line groups

Add, remove, and edit line groups used for filtering the presentation in Traffic Studio.



Selected Tab

List of all the selected lines.

Selection Tab

List all the lines, with a checkbox for each, where you select which ones will be included in the line group.

Filter (Regex Tab)

The user can select which lines to include in the line group with the help of a filter. These lines are added to the manually selected ones under the Selected tab.

Line	^4 Exten	nal ID	
Descri	ption	nal ID	
Line	Description	External ID	Internal ID
	Flaktveit - Hesjaholtet		33004
4E	Flaktveit - sentrum	4E	3
40	Olsvikskjenet-Busstasjonen	40	11
40E	Olsvikskjenet-Busstasjonen	40E	34040
41	Hetlevikåsen - Loddefjord	41	34041
42	Alvøen-Tyssøy-Haakonsvern-Loddefjord-Busstasjonen	42	34042
43	Tyssøy-Loddefjord	43	34043
45	Skålevik - Loddefjord	45	34045
47	Sandeidet-Sentrum	47	34047
48	Løtveit-Oasen	48	34048

The filter uses the **Regular Expression** format, which allows you to define line groups with logical expressions/functions in four different categories, each of them related to the four columns in the Selected tab, i.e. Line, Description, External ID, and Internal ID.

Many columns can be combined to narrow down the selection. Only the lines fulfilling the user's criteria will be selected and shown in the Selected tab.

Regular Expression: Special Characters

Special characters are optional. Without them, all the lines fulfilling the content entered by the user will be selected.

Two practical examples:

- You write 17 in the Line field. All the lines with a 17 in their names will be included in the line group, e.g. 17, 117, and 0171.
- You write Maple in the Description field. All the lines, which have this word somewhere in their description, will be included in the line group.

Regular Expression consists of many functions that allow, in combination with the normal fields, the creation of complex and advanced filters. The table below lists the most common special characters along with examples.

Function	Description
[]	Include the strings containing a part of the content between the brackets.
	Practical example
	You want to include all the lines, which have the numbers 1, 2, or 6 in the line field. You enter [126].
	You can also use intervals. If you want to include all lines with the numbers 1 to 5, you can enter [1-5].
^X	Identify the first element in the string. Using ^X means that all the strings beginning with X will be included.

Function	Description
	Practical example
	You want to include all the lines with an internal ID starting with 4. You enter ^4 in the Internal ID's field.

Define a Group

- 1. Select a system and click on Load (if the system is not already selected).
- 2. Click on Add
- 3. Name the new group under Group name.
- 4. The button Add will change to Save. Click on it to save the new group.
- 5. Select your lines by their checkbox, either via the Selection or the Regex tabs.
- 6. Save the new group or save the changes and close the window by clicking on Save.

Edit a Group

- 1. Select a system and click on Load (if the system is not already selected).
- 2. Select a group under Group name.
- 3. Tick to add a line or tick off to remove a line.
- 4. Continue to edit other groups or save the changes and close the window by clicking on Save in the bottom right corner of the window.

Remove a Group

- 1. Select a system and click on Load (if the system is not already selected).
- 2. Select a group in the Group name's menu.
- 3. Click on Remove.

5 Power User/Administrator Functions, Tools

Traffic Studio includes a few tools that can be configured to be available for regular users but are mostly intended for advanced/power users. To "unclutter" the Reference Manual, we have placed the tool descriptions here in the Administrators Manual.

5.1 My Report Sheet Templates

This simple tool lists all the report sheet templates imported into your system.

The templates are used for handling questions and related answer alternatives presented both in pre-, and post-op check forms and for configuring Deviations, including trigger thresholds. See the default template examples below:

Name	foo autoon hur									
Name	sen avgang tur	•								
Type .	JOURNET_LATE_START									
external_id	Geviation report_1									
Category	Simple_V1									
category id	an									
Company_ru Dalasiba	100									
Color	100									
COIOI	400000									
Question	Taut	Trans			Onting	Outlan tout				
l ortid ol	Anledning	CHOICE	ext question n	in max	option	Vol. og king	forhold			
extlo_qr	Ameuning	CHOICE				Toknick foil	oð kiærotæv			
2						Texnisk len	pakjøretøy			
3						Sentration	gerun			
9						venter pako	prrespondans	e		
6						Direction bo	stanse diening/Jeast			
0						Passasjer De	tjening/span	t		
0						Annet				
0						Annet				
0										
1										
	P	i	C	D			6			_
A	B		C	D		E F	G	н	1	J
A	B Post-Op Check		C	D		F F	G	н	1	J
A Name Type	8 Post-Op Check post_op_check		c	D		E F	G	н	1	J
A Name Type external_id	B Post-Op Check post_op_check post_op_check_1		C	D		E F	G	Н	I	J
A Name Type external_id Import format	B Post-Op Check post_op_check post_op_check_1 Simple_v1		c	D		E F	G	Н	I	J
A Name Type external_id Import format Category	B Post-Op Check post_op_check post_op_check_1 Simple_v1 Checklist		c	D		F	G	н	1	J
A Name Type external_id Import format Category company id	B Post-Op Check post_op_check_1 Simple_v1 Checklist 35342		c	D		E F	G	н	1	J
A Name Type external_id Import format Category company_id Priority	B Post-Op Check post_op_check_1 Simple_v1 Checklist 35242 100		c	D		E F	G	н		J
A Name Type external_id Import format Category company_id Priority Color	B Post-Op Check post_op_check_1 Simple_v1 Checklist 35242 100	66903	C	D		E F	G	н		J
A Name Type external_id import format Category company_id Priority Color	B Post-Op Check post_op_check_1 Simple_v1 Checklist 35242 100	66993	C	D		E F	G	H	1	J
A Name Type external_id Import format Category company_id Priority Color Question	B Post-Op Check post_op_check post_op_check_1 Simple_v1 Checklist 35242 100	66993	С	D Next quest	on Min	E F	G	H Option text	1	J
A Name Type external_id Import format Category company_id Priority Color Question extid_01	Post-Op Check post_op_check post_op_check_1 Simple_v1 Checklist 35242 100 Text Vehicle checked fn	66993	с	D Next quest	on Min	F	G	H Option text	t Option) next questi
A Name Type external_id Import format Category company_id Priority Color Question extid_q1	B Post-Op Check post_op_check simple_v1 Checklist 35242 100 Text Vehicle checked for	66993 r lost property'	C Type CHOICE_TED	D Next quest	on Min	F F	G Option	H Option text Yes	t Option) next questio
A Name Type external_id Import format Category company_id Priority Color Question extid_q1	8 Post-Op Check post_op_check post_op_check_1 Simple_v1 Checklist 35242 100 Text Vehicle checked for	66993 r lost property	C Type P CHOICE_TED	D Next questi	on Min	F F	G Option	H Option text Yes No	t Option) next questi
A Name Type external_id Import format Category company_id Priority Priority Color Question extid_q1 extid_q2	B Post-Op Check post_op_check post_op_check_1 Simple_v1 Checklist 35242 100 Text Vehicle checked for Any lost property fo	66993 r lost property ound?	С Туре с сноісе_тел с ноісе_тел	D Next questi T	on Min	E F	G	H Option text Yes No Yes	t Option) next questio
A Name Type external_idm Import format Category company_idd Priority Color Question extid_q1 extid_q2	8 Post-Op Check post_op_check post_op_check_1 Simple_v1 Checklist 35242 100 Text Vehicle checked for Any lost property for	66993 r lost property pound?	C Type CHOICE_TED CHOICE_TED	D Next questi T	on Min	F F	G	H Option text Yes No Yes No	t Option) next questi
A Name Type external_id import format Category company_id Priority Color Question extid_q1 extid_q2 extid_q3	Post-Op Check post_op_check_l simple_v1 Checklist 35242 100 Text Vehicle checked for Any lost property fr	66993 r lost property ound? operty	C Type CHOICE_TED CHOICE_TED TEXT	D Next questi T	on Min	F F	G	H Option text Yes No Yes No	t Option) next questi
A Name Type external_id Import format Category company_id Priority Color Question extid_q1 extid_q3	B Post-Op Check post_op_check_1 Simple_v1 Checklist 35242 100 Text Vehicle checked for Any lost property fo Comments/lost pro	60993 r lost property ound? operty	C Type CHOICE_TED CHOICE_TED TEXT	D Next questi T	on Min	F Max	G	H Option text Yes No Yes No	t Option) next questi
A Name Type external id import format Category company_id Priority Color Question extid_q1 extid_q2 extid_q3 extid_q4	Post-Op Check post_op_check_ post_op_check_l simple_v1 Checklist 35242 100 Text Vehicle checked for Any lost property for Comments/lost pro Any other incidents	66993 r lost property' ound? sperty s to report?	C Type CHOICE_TEP CHOICE_TEP TEXT CHOICE_TEP	D Next questi T T	on Min	E F	G Option	H Option text Yes No Yes	t Option) next questio
A Name Type external_ld Import format Category company_id Priority Color Question extid_q1 extid_q2 extid_q3 extid_q4	B Post-Op Check post_op_check post_op_check_l Simple_v1 Checklist 35242 100 Text Vehicle checked for Any lost property fo Comments/lost pro	60993 r lost property ound? operty s to report?	C Type CHOICE_TEI CHOICE_TEI TEXT CHOICE_TEI	T T T	on Min	F F	G	H Option text Yes No Yes No	t Option () next questio

When a Deviation is triggered in a vehicle the driver is presented with a (template-specified) form for explaining the cause of the deviation. The Deviations tool in TS also provides the traffic controller with the same "cause" menu where traffic controllers can change/correct the reported cause of a deviation.

 Note: The default/"clean" template files for deviations and checks, respectively, are available in the system portal. To configure deviation/pre-/post-op checks, fill in the document(s) with the needed templates and import them as resources into CTS using the Configuration Manager web application. See the separate Configuration Manager manual for how to do this.

Overview

The tool lists all imported templates. Use the filter section (described below) to view only templates of interest.

Note: The list will also include any waste-handling-related forms in the system. These are more complex and are not imported as excel files thru the CM.

Filters										Deta	ils (sh cted te	ow/hide), conte mplate in list
/												
Company (1/32) 🔻 🗌 Currer	at version only	Q 29/61										/
Name	Deviation Type	Company	Category	Priority	Questions	Report Points	Last update:	ID Versi	on Colors	(i) 📕 Test custom deviation mu	Itilevel Traff	ic Deviations (Customizable)
tenfor trasè	Traffic Deviations (Customizable)	2.3 Bybanen	/Utenfor trasé	100	1	0	2023-01-20 15:53:14	28 30		 Questions 		
iplanlagt vognbytte	Traffic Deviations (Customizable)	2.3 Bybanen	/Uplanlagt vognbytte	100	1	0	2023-01-20 15:53:14	27 29		Test custom deviation multilevel	Choice	Level1Text1q2
rafikkuhell	Traffic Deviations (Customizable)	2.3 Bybanen	/Trafikkuhell	100	3	0	2023-01-26 15:13:58	31 45				Level1Text1q3
raflikkuhell	Traffic Deviations (Customizable)	2.3 Bybanen	/Trafikkuhell	100	3	0	2023-01-20 15:53:15	31 33		Level 2 - Level1Text1q2	Choice	Level1Text2q41
rafikkuhell	Traffic Deviations (Customizable)	2.3 Bybanen	/Trafikkuhell	100	3	0	2023-01-26 22:16:34	31 59				Level1Text2q42
idlig turstart	Early start	2.3 Bybanen	/Deviation report	100	1	0	2023-01-19 17:41:34	16 16	_	Level 2 - Level1Text1g3	Choice	Level1Text2q31
est custom deviation multilevel	Traffic Deviations (Customizable)	2.3 Bybanen	/Test	100	6	0	2023-02-03 09:12:11	47 61		1		Level1Text2q32
en turstart	Late start	2.3 Bybanen	/Deviation report	100	1	0	2023-01-19 17:41:34	17 17				Level1Text2q33
en til turstart	Journey late to start point	2.3 Bybanen	/Deviation report	100	1	0	2023-01-19 17:41:34	18 18		Level 3 - Level2Text1q4	Choice	Level1Text2q41 Level1Text2q42 Level1Text2q43
re-trip check	Pre-Op check	2.3 Bybanen	/Checklist	100	1	0	2023-01-19 17:41:35	21 21				
ost-trip check	Post-Op check	2.3 Bybanen	/Checklist	100	1	0	2023-01-19 17:41:35	22 22		Level 3 - Level2Text1q5	Choice	Level1Text2q51
undehendelse	Traffic Deviations (Customizable)	2.3 Bybanen	/Kundehendelse	100	1	0	2023-01-20 15:53:14	29 31				Level1Text2q52
jaretay	Traffic Deviations (Customizable)	2.3 Bybanen	/Kjøretøy	100	9	0	2023-01-26 15:13:53	25 34				Level1Text2q53
jaretay	Traffic Deviations (Customizable)	2.3 Bybanen	/Kjøretøy	100	9	0	2023-01-20 15:53:12	25 25		Level 3 - Level2Text1q6	Choice	Level1Text2q61
jøretøy	Traffic Deviations (Customizable)	2.3 Bybanen	/Kjøretøy	100	9	0	2023-01-26 22:16:30	25 47				Level1Text2q63
stilling	Traffic Deviations (Customizable)	2.3 Bybanen	Anstilling	100	6	0	2023-01-20 15:53:13	23 26				
stilling	Traffic Deviations (Customizable)	2.3 Bybanen	Anstilling	100	6	0	2023-01-26 15:13:54	23 36		:		
nstilling	Traffic Deviations (Customizable)	2.3 Bybanen	Anstilling	100	6	0	2023-01-19 17:41:35	23 23				
astilling	Traffic Deviations (Customizable)	2.3 Bybanen	/Instilling	100	6	0	2023-01-26 22:16:31	23 50				
rakjøring	Traffic Deviations (Customizable)	2.3 Bybanen	/Frakjøring	100	1	0	2023-01-20 15:53:15	30 32				
ortidligkjøring	Traffic Deviations (Customizable)	2.3 Bybanen	/Fortidligkjøring	100	1	0	2023-01-20 15:53:14	26 28				
forsinkelse	Traffic Deviations (Customizable)	2.3 Bybanen	/Forsinkelse	100	5	0	2023-01-20 15:53:13	24 27				
orsinkelse	Traffic Deviations (Customizable)	2.3 Bybanen	/Forsinkelse	100	5	0	2023-01-26 15:13:55	24 38				
orsinkelse	Traffic Deviations (Customizable)	2.3 Bybanen	/Forsinkelse	100	5	0	2023-01-19 17:41:36	24 24				
orsinkelse	Traffic Deviations (Customizable)	2.3 Bybanen	/Forsinkelse	100	5	0	2023-01-26 22:16:32	24 53				
j körd tur	Journey not driven	2.3 Bybanen	/Deviation report	100	1	0	2020-03-26 16:40:52	8 8				
j komplett tur	Journey incomplete	2.3 Bybanen	/Deviation report	100	1	0	2020-03-26 16:40:45	1 1				
Tidlig avgang	Early departure	2.3 Bybanen	/Deviation report	100	1	0	2023-01-19 17:41:35	20 20				
Sen avoand	Late departure	2.3 Bybanen	/Deviation report	100	1	0	2023-01-19 17:41:35	19 19				

Name	Description
Name	Template/form name
Deviation Type	Type of deviation (deviation template), or "pre/post-op check". Note: "Deviations (customizable) is the deviation type for deviations created by the New Deviation tool.
Company	Company/Operator
Category	Type of template/form (for Deviations (customizable), the deviation category/base node in the selection tree)
Priority	Template priority (not to be confused with deviation or event priority in the system).
Questions	The number of questions in the template Note: For manually created deviations, this includes each expandable node, see the following section.
Report Points	The number of report points in a waste handling form.
Last Update:	A timestamp showing when the latest version of the template was imported into the system.
ID	Element ID
Version	Version number

Name	Description
Colours	Configured colour (background, report form in driver interface), if any. Tooltip shows configured colour numerically. No box means no configured colour/default grey.
	17 18
	21
	31 669932
	23

Filter Section

- If you have access to multiple companies, select the company whose templates you want to display in the top left menu.
- Check the "Current version only" box to only view the templates **in use**. Also, see the section below.
- Use the free text filter so find specific templates.

Company (32/32) 🔻	Current version only	۹	29/31
Name	Denieties Tran	C	C-4

Current/Non-Current Versions

With the box "Current version only" unchecked, all versions of each template in the systems will be displayed. The current version is displayed with standard text but **historical (non-current) versions are displayed in greyed-out italics**. See below.



Details

This section shows the contents of the currently selected template in the list. Each report sheet template consists of one or more "questions" (in the left column) and related answers (in the right column).

In Deviations triggered in the vehicles/centrally, the answers are the alternative causes of the related deviation presented to the driver /traffic controllers.

• Note: Manually created deviations use templates in the same question-answers format to form a hierarchical selection tree where the user can select a specific deviation type and cause. (One deviation type is defined by one template.) See the next page.

Test custom deviation mu	Itilevel Traff	ic Deviations (Customizable)
Questions		
st custom deviation multilevel	Choice	Level1Text1q2 Level1Text1q3
Level 2 - Level1Text1q2	Choice	Level1Text2q41 Level1Text2q42 Level1Text2q43
Level 2 - Level1Text1q3	Choice	Level1Text2q31 Level1Text2q32 Level1Text2q33
Level 3 - Level2Text1q4	Choice	Level1Text2q41 Level1Text2q42 Level1Text2q43
Level 3 - Level2Text1q5	Choice	Level1Text2q51 Level1Text2q52 Level1Text2q53
Level 3 - Level2Text1q6	Choice	Level1Text2q61 Level1Text2q62 Level1Text2q63

The question-answer hierarchical "level" under the top nodes section. For manually created Deviations this indicates the hierarchical level of the question-answer sections. Making it easier to "decipher" the template into the resulting selection tree. The type of entry (can be numerical, text, etc). For Deviations "choice" is used, with the corresponding choices in the right column.
Details: Report Sheet Templates for Manually Created Deviations

For manually created deviations (of the type Deviations (Customizable), the templates form an hierarchial selection tree of deviations sorted into categories and causes for quick selection.



- Every "base node" in the tree is a separate template (row in My Report Sheet templates).
- The top level under the base node is described in the first "question-answers section", and the next level is described in the following sections, and so on. See the example below.

• The form is flexible and not specifically designed for this use. Taken together, all such templates for a company will form a simple "Deviation -> Cause" tree that is used by the New Deviation tool for manually entering Deviations.

In "New Deviation": One base node			
in the selection tree expanded.	(i) Test custom deviation mul	Itilevel Traffi	c Deviations (Customizable)
The first question-answers-section in the template describes this level.	Ouestions		
	Test custom deviation multilevel	Choice	Level Text1q2
			Level1Text1q3
	Level 2 - LeveliTextig2	Choice	Level1Text2g41
			Level1Text2q42
			Level1Text2q43
Test custom deviation multilevel	/Level 2 - Level1Text1g3	Choice	Level1Text2g31
Level1Text2q41			Level1Text2g32
Level1Text2q41			Level1Text2q33
Level1Text2q42	Level 3 - Level2Text1a4	Choice	Level1Text2041
▶ Level1Text2q42	Level 5 - Level Erexerq4	enonce	Level1Text2q41
▶ Level1Text2q43			Level1Text2g43
▲ Level1Text1q3	Level 3 Level2Text1q5	Choice	Level1Text2g51
Lavel1Tavt2r32	Level 5 - Level 2 rexerigs	choice	Level1Text2q51
			Level1Text2q52
	Lavel 3 Lavel2Taxt1a5	Choice	Level1Text2e61
The next level (level 2) top node	Level D - Level Llexingo	choice	Level1Text2q61
is expanded. The next question-			Level1Text2q63
describes the alternatives under			Levernexizedes
this node.			
The underlying nodes are listed			
in the following question			
answer-sections.			
Test custom deviation multilevel Level1Text1q2			
▲ Level1Text2q41			
Level1Text2q41			
Level1Text2q43			
▷ Level1Text2q42			
↓ Level11ext2q43 ▲ Level11ext1q3			
Level1Text2q31			
Level1Tevt2n32			

5.2 Deviation Templates

Note: This tool/function is under development.

• In the current version of CTS, generation of Driver Alarm deviations are supported with the use of Deviation templates. More deviations will be added in upcoming releases.

Deviation Templates: Basic Functionality

- Deviation templates allow you to set up how (based on your deviations configuration), specific Events and Warnings will generate deviations.
- Templates "fill in" the created Deviation [window] based on the template contents.
- Enter as few or as many templated items (menu selections/checked boxes) as you want. A template can produce an almost completed deviation form or maybe only check a single box (apart from defining the deviation).

The Deviations Template Tool

The Deviation Templates tool lists all deviation templates in use in your system.

It allows you to create new templates, edit templates and delete templates.

Each deviation template is configured using the same deviation tool window you use for creating/processing deviations in your system, and shows your configured sections menu items etc. You make selections in the standard deviation menus and check boxes to define your template. And then save your template.

How Deviation templates are applied to a generated deviation

• Note: In the current release, the **event/warning** that generates a deviation is manually mapped to the name you give a template that you want to use to create the deviation, or the template ID.

Contact Consat Telematics for assistance with mapping, when you have defined your templates.

• **Note:** Currently, only a specific list of events/warnings use this deviation generation and configuration method.

The events listed in the TS Event Configuration tool that can generate deviations use another way of configuring the resulting deviation.

(These are configured with only the report sheet templates. See The Deviation chapter in the Reference manual and the My Report Sheet Templates here in this administrators manual for description.)



Template Y: Specific menu selections/checked boxes applied.

Tool Overview

The Deviation Templates tool lists all your deviation templates w basic content presented. A "New Template" button opens a blank deviation template window, and quick menus allow you to edit or delete templates as needed.

• **Note:** The configurable columns mirror those in the Deviations tool. Normally fewer columns will be of interest in a Template list. The columns unique to this tool are bold in the list below.

٩		11/11				
Prior	ity Template Name	Summary	Driver	Calendar day	Cause (driver)	Cause
	PanicAlarm	Volditrussel mot fører - Førerhendelse: Volditrussel mot fører			«Select a cause»	Farerhendelse: Volditrussel mo
	name 1	Annet - <select a="" cause=""></select>			<select a="" cause=""></select>	
	PanicAlarm	Vold/trussel mot fører - Førerhendelse: Vold/trussel mot fører			«Select a cause»	Førerhendelse: Vold/trussel mo
3	test z 2	Lading stoppet - Innstillining: Førerhendelse			«Select a cause»	Innstillining: Førerhendelse
	test z 3	Tomkjøring fra garasje ikke størtet etter 15 min - Ekstrakjøring: For Ruter			«Select a cause»	Exstrakjøring: For Ruter
3	test z1	Feilkjøring - Førerhendelse: Illebefinnende			<select a="" cause=""></select>	Førerhendelse: Hebefinnende
	Demo insufficient range	Tomkjøring fra garasje ikke startet etter 5 min - «Select a cause»			«Select a cause»	
2		Tomkjøring fra garasje ikke startet etter 15 min - Anvik i trasé: Folkemengde			«Select a cause»	Awik i trasif. Folkemengde
	Demo	For oppdragsgiver - <select a="" cause=""></select>			«Select a cause»	
	Text5	Annet - Ekstrakjøring: For Ruter			<select a="" cause=""></select>	Exitral prints: For Rufer
		Kjøring utenfor trasé - Ekstrakjøring: Annet			«Select a cause»	Exstraijpring: Annet

Description
Deviation ID
Set priority (if any), 1-5. Used for sorting and filtering the presentation to highlight the most important deviations.
Template Name (freetext)
The configured "short description" of the deviation, that is also the deviation header in the deviation window. May include deviation, journey, journey start time, etc.
The company driving the journey. Also, see the Company Filter description below.
The line serviced by the journey on which the deviation was recorded
The journey destination
Vehicle number
The driver's name, if available.
Location where the deviation occurred, if entered in free text.
The block that includes the journey on which the deviation was recorded
The journey on which the deviation was recorded
The stop point where the deviation report was (first) triggered
The date when the deviation report was triggered
The planned departure time (from the indicated stop point on the indicated journey)
The recorded time of departure, (for automatic deviations: When the deviation was first triggered.)
When the deviation report was created/sent
The difference between the planned and the actual departure (for timetable deviations).
The logged Deviation (specified in the bottom deviation menu in the deviation window):
The logged deviation type (system dependent) Note: Manually created Deviations are of the type "Deviation (customizable)".
The category the deviation belongs to (specified in the top deviation menu in the deviation window).
The (currently selected) cause of the deviation, specified by traffic controller.
The cause of the deviation selected by driver (if available). Read only (default configuration).

Column	Description
Status	Shows the deviation ticket status: Not set/Pending/In Progress/ Processed/Closed
Action Card	Shows if the deviation includes required actions. (Actions that need to be performed for the deviation to be closed).
Comment	Deviation comment (internal, not publicized). It is possible to enter/add to/edit the comment, see below.
	Note: A related Traffic Changes ticket including a disturbance and comment will export its comments to the affected deviation.
Published Comment	"External" comment included in publicized deviation.
Consequences	The (automatically/manually) selected consequences of the deviation, see the Deviation Window Consequences section(-s).
Published timestamp	When the deviation was published to 3:rd party.
Published Email	Email publication channels selected, see the Deviation Window Consequences section(-s).
Published SMS	SMS publication channel selected, see the Deviation Window Consequences section(-s).
Required Action	Checked required action, see the Deviation Window Consequences section(-s).
Penalty Notation	Checked penalty Notations, see the Deviation Window Consequences section(-s).
Modified by	User/Driver that (last) reported a cause of/reason for the deviation.
	When a deviation has been created by an event (like "journey incomplete", this cell shows "Event Generator" as user/source.
Modified time	Timestamp showing when the deviation ticket was created/last changed.
Assigned	The user the deviation ticket is assigned to (if any)
Assigned Time Stamp	When the assign status was last changed
Removed	Checkbox (read only) shows if the deviation has been removed. Note: Deviations cannot be deleted only flagged as removed/"not valid". Check the "Show Removed" filter to see all removed deviations.
Source	Where the deviation was created/triggered: Traffic Control/ Vehicle

Edit Window

The edit window works just like (and looks just like) the deviation window used for processing deviations.

• The deviation template has two purposes: Defining the deviation (in the deviation section) and applying a base configuration for each generated deviation, in the other editable sections, if so desired.



Use all other menus and checkboxes (if needed) to "pre-define" your deviation. The created deviation will have these default selections, which of course can be edited by the user processing the deviation.

Create new Deviation Template

- 1. Click the New button
- 2. In the Template window: Enter a free text template name.

٥	Edit Deviation Template 7360	
Ter dr	iplate Name iver alarm	
R	leport Sheet	

3. Define the deviation in the Category-Deviation menu. This is the only mandatory selection.)

Category	
Forsinkelse	v
Deviation	
Avgang ikke startet etter 20 min	v

- 4. Enter other menus/check boxes as needed.
- 5. Click Save.

Edit Deviation Template

1. Right-clik on a deviation remplate row, select "Edit".

ussel m	at far	or Editorhandalson	old
. Sala	۲	Edit	
- < sele	•	Rethove	
stoppe		Keniove	lels

- 2. Change above described menus etc as needed.
- 3. Click Save.

Delete Deviation template

1. Right-click on a deviation template row and select Remove.



2. Confirm removal in dialogue.

Are you sure you wish to remove?	Remove	
🗶 Cancel 🛛 🛷 OK	Are you sure you	wish to remove?
	X Cancel	🔶 ок

5.3 Traffic Changes: Create, Administer Templates

If you are an administrator responsible for setting up and editing templates, you will find additional buttons and right-click menu alternatives in the template section.

You can create and edit the template navigation tree, create and sort templates into these categories, and delete navigation tree items and templates.

Templates		
۹ 📃	8/8	Templete Category (Newigetian Tree
Aktiviteter Extramallar Indragen sräcka Linjer stopp Trafikolyckor Trafikolyckor	-	As administrator you get right-click menus to create, rename, move and delete categories and sub categories in the tree.
 P IAG Uppklarat Ö-SG Ö-SÄ My Templates Uncategorized Templates (83) Old time of Templates (111) 		Note: A category must include at least one template for you to be able to save it. "Empty" categories are highlighed with warning symbols and will not be saved when the tool is closed. Se below.
Name	Components	parvagn
Indragen HPL - kringliggande trafik	ABC	Spårvagn 2 🔺
Indragen HPL - närmaste HPL	ABC	
Indragen HPL - samtliga linier	ABC	
Indragen sträcka - buss ersätter	ABC	Note: Depending on tool configuration, you may only be able to
Indragen sträcka - kringliggande tr	ARC	their place in the navigation tree. From this follows that you
Indragon sträcka – Kringliggande tr	ARC	cannot move or delete a category that includes one or more
inuragen stracka - narmaste HPL	× ·	templates created by another role (indicated by lock symbols).
Indragen sträcka 3	19	
		Template list, selected category As administrator you get right-click menus to move a selected template to a category. Buttons at the bottom of the list allow you to create, name and configure a new template and delete a selected template.
Delete Edit	Use New	

The Template Navigation Tree

The templates are sorted and categorized in a Navigation tree (see description in the previous section)

- You create the navigation tree by creating **base categories**, **sub-categories** (and if needed sub-sub categories).
- Categories are sorted alphabetically.
- Templates are sorted into the created navigation tree categories.

• Note: Templates that do not belong to a category are sorted into the category "Uncategorized templates". This category is only visible when there are uncategorized templates.

Add a navigation tree category or subcategory.

1. To add a root category: Right-click **outside any category names** in the tree. An **Add Root Category** menu shows. Select it.



To add a subcategory: **Right-click on the parent category** and select **Add** on the menu.



2. A new "Category" name field shows in the tree. Enter the category name. Press return to save, and verify the resulting sorting order.

Rename a category/ sub-category

3. Right-click on the category/template you want to rename and select Rename in the menu. The name field changes to edit mode.



4. Make the name changes. Press return to save, and verify the resulting sorting order.



Move a category or template to another category

You can move a subcategory to another root category, or place it under a subcategory, making it a subcategory. Moving templates inside the navigation tree work the same way.

- Note: In a system with "old", uncategorized templates, you will have to categorize all templates by moving them from the "Uncategorized Templates" category to suitable categories in the tree. When no templates are uncategorized, the uncategorized category will be hidden.
- Right-click on the category you want to move and select **Move** in the menu. Alternatively, right-click on a template in a category template list and select **Move to Category**.



2. Right-click on the root or subcategory you want to move the category **to**, and select **Move** [category/template name] **to** [target category name] in the menu.



Delete a category or subcategory in the tree

- Note: You can only delete categories created by the user role you logged in as. Categories created by other user roles are "locked".
- Note: Templates belonging to a category that is deleted will be moved to the "Uncategorized templates" category in the tree.

Right-click on the category/template you want to delete and select **Delete** in the menu. The category will be deleted immediately.

90.	Add
för	Rename
r 🗌	DNete
	Move

Move all old locally/file stored text templates to the Uncategorized templates category

• Note: SuperUser only

When upgrading a system from the legacy locally stored **text templates** (found in the "Old type of templates" category in the navigation tree) to the database, there is a quick way of importing all old text templates to the Uncategorized Templates category. This way they will be available to all users of the roles you selected at import. (Of course, the templates can then be moved to other categories, see above.)

- Note that old selection templates need to be moved manually, one by one.
- 1. In the navigation tree, check the number of old templates that are to be moved. (The number includes both text and selection templates.)

Un	Uncategorized Templates (416)			
OI	I type of Templates (111)			
Name	C	Con		

2. Click on the **New** button, the New template section will expand (and an **Import** button will show).

	-		
			Use
Available to	Roles (1/3	(0)	•
Template name			
Import	Cancel	Ľ	Save
Delete	Edit	0	New

- 3. In the Roles menu, select the [user]role/roles that will have access to the moved text templates.
- For information about how to use filter/multiple selection menus, see Chapter Fel! H ittar inte referenskälla.
- 4. Click on the **Import** button.



5. Confirm in the dialogue.



Now all the old text templates have been copied to the Uncategorized Templates category.

If/when the old-style locally stored templates are deleted (which have to be done manually by the administrator), this category will no longer be presented in the

navigation tree.

Create a New Template

- A template is a "snapshot" of the current entries and selections in the New Traffic Changes tool.
- If you create a new template with a Template navigation tree category selected, the template will be sorted into this category. (You can, of course, move the template between categories later, see description above.)
- 1. Fill in all the needed sections and selections in New Traffic Changes. You can, of course, make a template of a partially completed information ticket, leaving the rest to the template used to complete.
- 2. Click on the **New** button on the Templates tab. The bottom section will expand and show a name field, a Cancel, and a Save button.



3. Open the **Available by** menu to set which roles will have access to the template. You can select all the roles you have access to yourself.

The top selection is your logged-in user. **Check this box to make a personal template available only to you.** (When you check the top box all other users will be greyed out in the menu. **Note that this is a configurable function, see the Administrators manual**.)

For information about how to use filter/multiple selection menus, see Chapter Fel! H ittar inte referenskälla.

4. Enter a suitable Template name in the name field.

Note: Templates are sorted in alphabetical order when the list is sorted by the Name column. If you want your templates in a specific order, start the name with a sorting number or letter, i.e. "1. Central Arena Main Event"...

Tip: Try to standardize template names in your organization – this will make your work a lot easier...

				Use
Available to		Roles (26/	(29)	-
Template name	Template name test template			
	•	Cancel		Save
Delet	e 🖈	Edit	0	New

5. Click on the Save button to save the template to the central system (in the selected category in the tree).





Edit a template

- Note: Templates can only be edited and re-saved (with the same name) by users with the same user role as the creator of the template.
- 1. Select the template you want to edit/change.
- 2. Click on the Edit button. The rest of the template section will be greyed out.



- 3. Make the modifications in the information ticket component sections.
- 4. Return to the Templates section and click on the Save button.
- 5. Confirm the changes in the dialogue.

Make a new template based on an existing template

- 1. Select and apply (Use) the template you want to "edit".
- 2. Make the modifications in the information ticket component sections.
- 3. Return to the Templates section and click on the **New** button to create a new template from the current content.
- 4. If needed, change the roles that have access to the template (see above).
- 5. Enter a unique name and click on Save.
- 6. Sort the template into a suitable category, if needed.

Delete a Template

Note: The Delete button will only be active if a selected template was made by a user with your user role and the option Templates can be removed is ticked in Traffic Changes setup, see Appendix B.

- 1. Select the template in the list.
- 2. Click on the Delete button at the bottom of the tab window.



3. Confirm in the dialogue.

5.4 Yard Map Admin

Tools > Yard Map Admin

This simple tool allows you to administer yard maps (logical parking and charging maps). You can import, edit names, set the company access rights and delete maps as needed.

All available maps are listed with basic information in a table, described below.

Note: You will need to create a new map and delete the old one if you want to change the image file in a map, all other information and settings can be edited.

ige file in a map, all o	ther information and settings	Can be edited. Sh In	Create New Map (row) now/Hide formation Section
		Download Map File to selected locat	ion Update
st filters: Companies, free tex	t	Delete Map	Information
		Edit Map info	
Companies (0/2) V Search Q 3/3			
2 Stubberud consat 2025-02-14 08:44 2	Addified Modified By System Instance 025-02-28 17:43 consat -		Name:
3 Acme Priority consat 2025-02-20 14:32 2	025-02-28 18:20 consat -		Stubberud Description: unihus parking in oslo
My new map 💢 consat 2025-02-21 19:09 2	025-02-28 17:34 consat -		
			Companies (1/2)
		Checkbox: Show/hide map for use	this Menu: Givet hese companies access to ers the map
Header	Description		
ID	Internal Map ID.		
Name	Free text Map name, edit	table.	
lcons	If map is to be visible to/ "show" setting in the det	'selectable by users or not. Se ails section below.	ee the
Created by	User that imported map		
Created	Timestamp showing whe	en map was imported.	
Modified	Timestamp showing whe	en map settings/info was last	edited.
Modified By	User that last modified n	nap.	
System Instance	Map system instance (or	nly systems with multiple inst	ances)

Create New Map

To create a new map, click on the "New" button. The Information-section shows entry sections and menus for the new map.

Note: You will need a correct .svg file with the parking locations on the map mapped to the corresponding chargers/connectors. Contact Consat to get assistance with producing such a file.

Enter, from to top to bottom:

- 1. Name
- 2. Description
- 3. Upload map svg image file (browse and select file), see note above.
- 4. Choose if users are to see/have access to the created map (this can of course be changed later). Check box to let them see/select the map.
- 5. Choose the companies that shall have access to the map.
- 6. Click Save.

	O
	Name:
	Description:
	Image:
:	✓ Show
	Companies (2/2) 🔻
	Cancel VSave

Edit Map

To edit map information/settings, select the map row and click the edit button.

Now you can edit name/description, user access ("show") and company access. Click save to save changes.

Stubberud
Description:
unibuss parking in oslo
Show
Commenting (2)(2)
Companies (2/2)
🗙 Cancel 🛛 📌 Save

Download Map Image File

To download the image file in/from a map, select the map row and click the download button, select the download location and click save.



Delete Map

To delete a map, select the row and click the remove button.



5.5 Vehicle User Interface – Runtime Page

Vehicle Quick Menu > Vehicle User Interface – Runtime Page

This quick menu item provides access to the vehicle system Runtime web interface. Here, you can access multiple system functions in the vehicle computer. It provides an interactive driver interface, displays, location map, simulator controls (for "driving" the test system), etc.

Note: The Runtime page functionality description may be added in a later version of this document (or in a separate document).



6.1 [Driver] Alarm

File > Setup > Alarm

In the alarm setup, you can select which sound to use when you receive a driver alarm. You can either select the default sound from the system or browse the path of the sound file of your choice. You can test your sound by clicking on the "play" symbol.

				Select Sound File
Sele	larm ect sound file	erted Sound File	+	Use either the standard system alert sound or select your own file (wav).
C	\Windows\Media\Alarm02.wav			Browse to the file, select it and pre-listen to it with the play-button.
Pho	ne Number Listening Enable Phone Number Listening	1		
1	Phone Number Listening 0709792714	Name Trafikledning Partille		Phone Number Listening
2	234234234	Privat mobil		Check the box to enable the function.
			•	numbers the traffic controllers can select, click on the Plus (add) button and enter number and name/description. To delete a number from the list, select the row and click on the minus (delete)-button.
✓	Show all Company Units (ignore Disable alarm at confirm	e responsability)		
			Cancel Save	
	Alarm Fu	nctionality		Save Changes
	See the desc	ription in the below t	ext.	Or Cancel with the Cancel button.

Phone Number Listening

- In the "Phone number Listening" section you can configure one or more phone numbers that a traffic controller can choose from when acknowledging the alarm. This number will get sent to the vehicle system and the vehicle system then silently (stealthily) calls this number and keeps the line open for audio monitoring of the front of the cabin through the driver microphone.
- You can configure and name several telephone numbers that the traffic controller can choose from before acknowledging the alarm (and thus sending the number to the vehicle for call-up).
- Also, see the corresponding chapter in the reference manual for a description of the function.

Alarm Functionality Configuration

• Two checkboxes allow you to configure the alarm functionality: Check "Show all Company Units (ignore responsibility)" to present alarms to the user from all vehicles in the system, *regardless of the company they belong to*.

If this box is left unchecked, only alarms from the vehicles the user has responsibility for (i.e the vehicles listed in the My Vehicles tool) will be presented to the user.

Check "disable alarm at confirm" to request the vehicle to turn off the alarm when an
operator confirms the alarm. The vehicle will then stop sending alarm updates and the
alarm window will stop flashing red. The vehicle position and information will still be
updated in the alarm window (just like when following the vehicle on the map).

If the box is left unchecked the vehicle will continue to send alarm updates (with configured frequency) and the alarm window will still flash red after a user has confirmed the alarm. (The alarm sound will still stop after the confirmation and the alarm window will still be closed in the other operators' applications.)

Click on **Save** to save your selection/configuration, or Cancel to exit without saving your changes.

6.2 Warnings

File > Setup > Warning setups, indicated with



In the various warning setups, you can enable/disable each warning and select if/which sound to play when the warning window is displayed in Traffic Studio.

Warning setup windows:

- Alcolock
- Fire Alarm
- [Vehicle] In service, no driver logged in
- Vehicle Accident
- Note that geofence-triggered Road limitation warnings are configured in the Geofence setup, see the next chapter.
- 1. Check box to enable function.
- Browse to the sound file of your choice and click on Open in the navigation window.
 If no sound file is selected, a default system sound will be used.
- 3. Click on the play symbol button to play the sound.

🔺 Alcolock Warning		_		×
Enable Alcolock Warning 🗹				
Select sound file				
		1		
	Cancel		S a	ve

Click on Save to save your selection/configuration, or Cancel to exit without saving your changes.

6.3 Geofence

The Geofence setup window allows you to select a notification/warning sound to be played whenever a vehicle triggers a geofence warning (presently limited to Road Limitation zones). The sound is played as the Road Limitation zone vehicle details popup is presented.

• You can browse and select an audio file (.wav format) on your computer, and play it to verify your selection. Alternatively, enter the path to the file. Then click on Save.

Note: You can disable triggering the Road Limitation Zone window when a vehicle enters such a zone and only enable the corresponding event for more subtle monitoring – See the Event Configuration and Event Monitor chapters in the Reference.



File > Setup > Assignments and Journey Start Time



Assignments Settings

- Show Tow: Tick this box to include functionality for assigning Towed vehicle (tram).
- Show manual assignments as popups: Ticking this box and clicking on Save will ensure that all manual assignments will be shown as popup windows in the lower right corner of the application.
- Check Enable remove dynamic journeys to allow the user to delete/remove dynamic journeys [created from journey templates].
- Check Can deny manual assignments to enable the user to approve or deny manual assignments, i.e., assignments performed by the drivers themselves. (Notification and decision on a pop-up and in separate section in the Assignments tool.)
- Check Journey activation time limit to turn off the activation function for on-demand journeys a set time before the planned journey start. (This makes it possible to avoid journey activations too close to the journey start for the drivers/organization to react.) Set the time [before the journey start] the activation is to be "locked" in the time window.

Journey Start Time Settings

Maximum time interval for changing a journey's start time: This determines how much a journey's start time can be modified. E.g., the time is 9.00 am and the value is 120 minutes. The user can modify start times from 7.00 am to 11.00 am.

Show journeys starting within the next: Number of minutes used to populate the list of incoming journeys. The user can also change the settings directly in the Journey Start Time plugin.

Update refresh rate for shown journeys: This determines how often the list updates with new journeys.

6.5 Camera View (My Cameras)

To set up the (web) cameras available to the user in the Camera View tool, you use the tool **My Cameras**. (Cameras are normally configured for whole roles/groups but can of course be set up for single users too.)

Use this tool to add and name cameras, define their position and direction, and configure which stop points are in view (if any) – for camera access through the corresponding stop point shortcut menus.

My cameras: Overview

The tool lists all configured cameras, including the configured parameters and the number of stop points covered. Buttons for adding, deleting, and editing cameras are included. If you have many cameras the free text filter will help you quickly find a particular camera in the list.



• Double-click on a row to zoom the map to the camera position.

Column	Description
Camera	The configured name of the camera

Column	Description
URL	The URL of the web camera
Longitude	Location: Longitude
Latitude	Location: Latitude
Camera Direction	The direction of the camera, in reference to the map: "0" is due north, "-90" due west, "90" due east
Stop Points	The number of stop points covered by the camera (configured as being in the camera field of view). Note: The Stop point presentation is configured in the Tooltips
	and labels menu – see the User reference manual, chapter 7.2.

Add a Camera

To add a new camera to the list:

1. Click on the Add camera button. An empty edit (Add new) section will show below the camera list section.



2. In the Add new section: Enter a suitable camera name, the search path (URL), and the camera location: longitude and latitude (if available). If long/lat is not available but you can identify the location on the map, use the map location functionality instead, see below. Enter the camera direction and add stop points visible in the camera view, see descriptions below.

Tip: If you lack exact information about the camera, you can often use the camera image to identify the location, direction, and covered stop points: Enter the camera name and URL and save the camera with the default location. Then select the camera in the Camera View tool to view the camera image. Edit the relevant parameters to complete the setup. See the following section about how to edit cameras.

	Add new			
I	Camera	Url	Longitude Latitude	Camera direction
I			6,4986 60,0986 CCD	* • 🗢 🗎 .
I	Stop points			
I				
I				
I				
I				

3. Save the camera by clicking on the save button.



Enter/edit camera location using the map

The correct coordinates of all cameras may not always be readily available. To enter a camera location using the map, both when setting up a new camera and when editing an existing camera, do like this:

1. Pan/zoom the map to show the area where the camera is located and make sure the map selection tool is set to Stop Point.



2. Click on the "enter location using map" button. The button is dark grey when the positioning function is active.



- 3. Right-click and draw a (yellow) positioning rectangle on the map the camera location will be at the Centre of the drawn rectangle.
- 4. When you release the mouse button, a preliminary camera location will be displayed by a grey camera symbol with a cogwheel overlay. If you are editing an existing camera, the current location will still be indicated by the normal camera symbol, see the example below.

If needed, redo steps 3-4 until the position of the camera is correct (use the camera image for reference, see the tip above).



5. Proceed with entering the remaining parameters or save the location using the save button.



Add/remove stop points visible in the camera view

1. Make sure the "enter location using map" button is not active (otherwise, click on it to deactivate the function)



2. If needed, pan/zoom the map to show the area where the camera is located and make sure the map selection tool is set to Stop Point.



3. Right-click and draw selection rectangles over the covered stop points. These are added to the Stop points list in the Add new/edit section. Repeat to add more stop points to the list.



4. **To remove a stop point from the list**, click on the remove button to the right of the stop point name.



5. Proceed with entering the remaining parameters or save the current parameters/stop points using the save button.



Edit camera [parameters, location]

Editing cameras work just like setting up new cameras. The only difference is the name of the camera parameter section (Edit instead of Add new) and that parameters will already be entered in the various fields.

1. Open the **Edit** [parameters] section by clicking on the edit button on the corresponding camera row.



2. Change the needed parameters (see the previous sections for how to do this).

dit				
Camera	Url	Longitude Latitude	Camera direction	1
Nordhordlandsbrua 1	https://svv-matrikkel-reexp.o	pentns 5,26419997. 60,366938	6 💶 🔊 45 🖨	
Stop points				
Nipedalen	-			
Nipedalen				

3. Save your changes by clicking on the save button.



Delete Camera

To delete a camera from the list, click on the delete camera button and confirm in the presented dialogue.



6.6 Customer Support

File > Setup > Customer Support

Disturbances and/or Text Announcements can be shown in a popup window in the lower right corner of the application when they become active. Tick the checkboxes to enable the popup window.

?!	Customer Support	- 🗆 🗙
Show Distu	bance Popups	
Show Text A	Innouncement Popups	
	E.o.	
		Save <u></u> Cancel

6.7 Drivers

The Drivers setup window is as simple as can be, it only includes a single check box: **Enable remote driver login.** Check the box and click save to enable traffic controllers to right-click on a vehicle to log in/out a driver. Click on Save to save the setting.

1 Drivers setup	_		×
🗹 Enable remote driver login			
	Save	•	Cancel

6.8 Line Network

File > Setup > Line Network Setup

This tool displays a logical view of the vehicles and the stops in the network. Vehicles are represented by arrows and their size and colour indicate their deviation from the timetable. Users can zoom in on vehicles and stop points just like the Map tool.

In the Line network setup window, you can add or remove network maps as well as configure those that will open when the application starts. The maps are linked to their respective system (see below). Several maps can be linked to each system (usually one for buses and one for tramways).



Privileged

6.9 Map

File > Setup > Map

You can configure the map work area as well as assign a map and a database to each central system.

٢		Map		- 🗆 🗙
	Select System GBG	¥		
	MapInfo Workspace file (*.mws) C:\Tm	x.Cap\Main\Source\7	「mix.Cap.Resources.N	Browse
	Map Coordinate System RT90	~	Zone:	0
			ОК	Cancel

Parameters	Description
Select system	Which central system the settings will apply to.
MapInfo Workspace file	Path to the map file.
Map coordinate system	Define the coordinate system used by the map. Choosing WGS84 will enable the Zone fields.
Zone	Selection of the current zone for the use of the WGS84 UTM coordinate system.

6.10 Text Messaging

File > Setup > Text Messaging

• **Note:** To set up pre-defined messages for a role: Load the role, open the Send Text Message tool and create the needed messages/reply alternatives. See the reference manual for how to use the Send Message tool.

Tab: Message Sound

Select the sound/sound file to be played when a new message is received.

🖚 Text Messaging	_		×
Message Sound Presentation			
● Use System Sound ○ Use Selected Sound File			
	Browse		
4			
	Sa Sa	ve 区	Cancel

Use system sound

The default system's exclamation sound file is used whenever a new message is received.

Use selected sound file

Select your sound file by browsing to its location on your computer or typing in the path to its location. If the path is incorrect or the file is missing, no sound will be played upon the reception of a new message.

Browse

Open a new window to browse the location of your sound file. Click OK in the new window to finish your selection. The path to the file will appear in the textbox.

Preview the system sound or the selected sound file

Click on the icon 🚺 to play the selected sound.

Save

Save the new settings for the message sound.

Cancel

Close the window and discard all changes made to the Message sound setup.

Tab: Presentation

- Tick the checkbox to activate/deactivate the option of showing new messages as popups.
- Tick in the "Free texts enabled" box to make it possible to enter free text messages and add new reply presets. With the box unchecked, only existing replies can be used in text messages.

🗬 Text Messagi	ng			_		×
Message Sound	Presentation					
✓ Show Recieve Free texts enables	d Text Messages a	is Popups				
				Save	8	Cancel

6.11 Traffic Deviation

File > Setup > Traffic Deviation

• Note: These settings relates to the extended version of the Deviations tool.

Enable Create Deviation on Journey Change

Check to configure generation of new deviation/deviations when traffic controller traffic change actions are selected in the TS journey quick menu. (Cancel Journey, Cancel Part of Journey, Short Run, Short Turn).

Note: Short turn generates two deviations, one for the selected journey and one for the matching following "return" journey.

 Check the box to enable deviation creation at traffic controller action. Click Save to save changes.

User can set Deviation to Status Closed

Check the box to allow the user to set the deviation to status closed and save the changes. This function is normally only activated for "administrative" traffic controllers that will close deviations after negotiating penalties etc. with the PTA.

_		×
ancel		Save
	ancel	ancel

6.12 Traffic Changes

File > Setup > Traffic Changes

New Traffic Changes and Traffic Changes have a shared setup menu.

Tab: General

On this tab, you find various tool functionality settings. Check the box for enabling the corresponding function, and uncheck to disable it. Click Save to save any changes.
Traffic Changes	-		×
General Audio Announcement Communication Channels			
Template tree can be edited			
Personal templates allowed			
Allowed to change/delete templates created by another role			
Templates only overwrite included task components			
Show Disturbance Description			
Preview Poltech sign			
Preview Ferrograph sign			
Check Spelling			
Hide audio section - text also converted to audio			
Poltalk mode, hide audio channels			
Only selected task component (disturbance, text, audio) sections ar	e visible		
Enable Create Disturbance in quick menu			
Show Text Announcement			
Always set to be reviewed flag			
Show To be Reviewed -tab			
Traffic Controller Mode (Lock New/Edit Traffic Changes)			
Traffic Controllers Can Delete Tasks			
Enable stop area selection			
Show temporal conditions			
Disturbance			
Text			
Audio			
Show Directions			
Arrive/Depart modification			
Show Disturbance Details			
Enable pick up passenger			
Enable change of journey time			
Enable forecast uncertain			
Enable Line-Direction			
Show Selection Header			
Allow move stop point Distance stop point can be moved 500 r	n ~		
Valid: Time - Traffic data Selection			
60 min before selected traffic data starts			
60 min after selected traffic data ends			
Templates			
C:\Users\nicklas.trygg\AppData\Roaming\Consat Engineering AB\IT	S4mobilit	Prouve	
		DIOWS	
Limit duration to days			
	Cauce		ancel
	Jave		ancer

Label	Description
Template tree can be edited	The user can create, rename and delete template categories and edit the template navigation tree structure, including template sorting/category.
Personal templates allowed	The user can use/create/delete personal templates. (The user profile is added as a top selection alternative to the Available for menu when creating a new template.)

Label	Description
Allowed to change/delete templates created by	The user can change/delete role templates <i>created by another role</i> .
another role	(Templates created by the same role can always be changed/deleted.)
Templates only overwrite included task components	Check this box if templates are to only overwrite the task components included in the template and leave any other content/settings untouched. This allows for applying several templates in a sequence with different components to "build" a task.
	If the box is not checked, templates will overwrite task components not included (in the template) with default setting/content, "resetting" these components for manual completion.
Show Disturbance Description	Display the window Description in the New Traffic Changes tool and allows the user to add a description.
Preview Poltech sign	Enable preview for Poltech LED signs.
Preview Ferrograph sign	Enable preview for Ferrograph signs.
Check spelling	Enable the spell-checking function in written messages. (Windows selected language.)
Hide audio section	Check this box to auto-convert all text messages to audio announcements for on-demand audio (read-aloud buttons at the bus stops). The audio section will be hidden.
Poltalk mode, hide audio channels	Only available when "Hide audio section" function is enabled, see above: Hides all audio channel buttons in the Communication Channels section in the New Traffic Information tool and distributes the converted files to Consat sign systems only. Uncheck to allow the user to distribute the converted audio to other channels also, like SIRI, etc.
Only selected task component (disturbance, text, audio) sections are visible	When this box is checked only the selected task component sections are visible in the New Traffic Changes tool. This enables a cleaner user interface, see the example below.
Enable Create Disturbance in quick menu	Enable "Create Disturbance" function in vehicle/block quick menus. Opening a new traffic information task with a disturbance for the specific traffic data node.
Show Text Announcement	Check to include the text announcement section in the New/Change Traffic Changes window. If unchecked, the user will not see the text announcement section and he/she will not be allowed to edit traffic changes with only text announcements. Traffic changes with mixed content can be edited but will not show any text announcement content in the editing window. Note that the user will then be able to change valid time and addressing, affecting the (not visible) text announcement.
Always set To Be Reviewed flag	All traffic information tasks created or edited by the user will be listed on the To Be Reviewed tab in the Traffic Changes tool.

Label	Description
Show To be Reviewed Tab	Enable the separate "To be reviewed" tab in Traffic Changes, showing Traffic Controller disturbance tasks that have not been completed with information task components.
Show indication when task is being edited	Enable "task being edited" indication for all users whenever a user edits a task. Also enables a popup reminding that a task is already being edited by another user whenever a user selects "Edit" for such a task.
Traffic Controller Mode	Locks (write protects) the New Traffic Changes/Traffic Changes windows – Traffic Controllers create Traffic Information tasks using the simpler Traffic Controller Actions.
Traffic controllers can delete tasks	Available when Traffic Controller mode is checked. Allow Traffic controllers to delete traffic information tasks.
Show temporal conditions	Activate the Valid Intervals section in New Traffic Changes, enabling individually scheduled periods for all included task components.
Disturbance	Activate scheduled active periods for disturbances
Text	Activate scheduled active periods for text messages
Audio	Activate scheduled active periods for audio announcements
Show Directions	Include the task component Directions. (For drawing and distributing map directions to drivers – and in future versions, walking directions to passengers.)
Show Disturbance Details	Activate the Disturbance Details section. In the current version, this section only includes functionality for creating a "moved stop point" disturbance, see Reference Manual.
	Note: This section is only used/activated in specific systems and cannot be active at the same time as "Allow move stop point", see below.
Enable pick-up passenger	Activate the "Pick up passenger" action that creates a corresponding information task. (Does not have to be enabled for the user to view such tasks in the Traffic Changes tool.). See the reference manual for the action description.
Enable change of journey time	Activate the "Change of journey timing" action that can "move" a journey or a section of a journey forward in time, to compensate for unplanned events. Note: System-specific function
Enable forecast uncertain	In "Change of journey timing" action: Activate the possibility of, instead of changing journey time (see above), flagging the particular journey forecasts as "uncertain". (Enables the "Uncertain" checkbox in the Change of journey timing action window.) Note: System-specific function
Enable Line-direction	Include the Line-direction node in the Traffic data selection tree.
	Note: This functiuon is currently not fully supported in all parts of the systemn so it may be turned off by default.
Show Selection Header	Display the "Selection header" section in the Traffic Data Selection tool section. This section/field can be used as a header for template-based selection and/or as "ScopeAlias" section in systems where this is distributed to a third-party information system. Also, see the Reference manual for an explanation.
	Note: The setting controls if the section is to be displayed to the user. A header/ScopeAlias may be included in a template even if this section is not

Label	Description
	displayed for the user. The function is then hidden for the user, an argument for keeping the section visible. Traffic Data Selection Selection Header Line group <all lines=""></all>
Allow Move Stop Point	Enable the "move stop point" function. (Which includes cancelling a stop point and assigning the traffic to an alternative, close by, stop point.) You can set a radius around the planned stop point to determine which alternative stop points shall be available to the users: Allow move stop point Distance stop point can be moved 500 m Note: This function cannot be active at the same time as "Show Disturbance Details", see above.
Valid: Time – Traffic Data Selection	Applicable when Traffic Data Selection is chosen in the Valid: Time section of the tool. These settings control how many minutes before the selected traffic data starts, and how many minutes after it ends the task/ticket is to be valid. For instance, how many minutes before a cancelled journey is the announcement telling the public about it to be triggered, etc.
Templates	Path to folder containing traffic information templates created in older system versions. (browse function to locate, select folder) These templates are displayed in the navigation tree in a separate category "Old templates. When these templates are no longer needed, delete the template files in the folder to clean up the navigation tree.

Section Enabling Settings, Examples



Only selected task component sections visible: No components selected

When no task components are selected in the New Traffic Changes tool the description and valid time sections are greyed out. The text and audio announcement sections are hidden. Only selected task component sections visible: Disturbance and Text announcement selected

All sections but the audio announcement section, are displayed.

Only selected task component sections visible: All task components selected

All sections are displayed.

Tab: Audio Announcement

On this tab, you enable/disable the audio announcement function and define the available audio announcement repetitions and interval menu alternatives.

Add (+) or remove (x) alternatives for the repetitions and interval menus in the two corresponding fields and then save your settings by clicking on Save.

Audio announcements disabled

When you uncheck the Use Audio Announcement checkbox your New Traffic Changes tool will have the Audio Announcement tool functionality removed, see image. In a system that includes the audio announcement functionality, you will still be able to see audio announcements created by other users with the function enabled.

• Note: Systems that use text-to-speech auto conversion but have the audio announcement section in the user interface hidden (the "Hide audio section.." box on the General Tab enabled) must still have "Use Audio Announcements" enabled.



Tab: Communication Channel (Groups)

Communication Channel Groups determine the Channels available to the users.

(See the separate project documentation for your particular communication channels/API:s, and what each individual "channel" covers).

• Note: This function can be enabled or disabled, depending on customer/user needs. Check the Enabled box to enable, and un-check to disable the function. When disabled the corresponding Communication Channels field will be hidden in the New Traffic Changes tool window.



When enabled, you can define and name the communication channel "group" alternatives available in the New Traffic Changes tool using two simple lists. Each named, selectable communication channel group in the left list is mapped to one or more communication channels/API: s in the right.

Channel Groups



Create a Communication Channel Group

4. Type the name of your new communication channel in the name field.

Web	

5. Check the boxes of the channels you want to include in your group.



6. Click on Save to save your new group.



Delete a Communication Channel Group

1. Select the communication channel group you want to delete.



2. Click on the delete button, the group will be deleted from the list.

General Audio Announcement	Communicatio	on Ch	annels				
Enabled							
Channel Group		Ch	annel				
At stops			Vehic	le: Driv	/er		
Internal			Vehic	le: Inte	rnal Di	splays 8	Speal
Journey planner			Vehic	le: Ext	ernal D	isplays a	& Spea
twitter		-	Webs	ites			
Websites		-	Journ	ey Pla	nner		
Vehicle Driver			At-Sto	p & Te	erminal	Display	s
Vehicle external			Test				
Vehicle internal			Intern	al			
			Emai	l i			
			Facel	oook			
			Twitte	r			
Websites	+ -						

3. Click to save your changes. (If you click on Cancel the window will close without changes i.e. the deletion will be undone.)



Edit communication channels in a group

- 1. Select the group in the list
- 2. Check/un-check channels to make the desired changes
- 3. Click on Save to save your changes

File > Setup > Tiled Map



Start Position, zoom level presented on map

Menu: Select System (available to user)

Select central system to view corresponding map.

Parameters	Description
Latitude	Starting position of the map: Latitude (check/adjust using map window)
Longitude	Starting position of the map: Longitude (check/adjust using map window)
Zoom	Desired default zoom level (check/adjust using map window)
Tile Server	IP address to the server where the map can be locally saved. Click on the reload button to load and verify the position/zoom level.
	Note: This parameter can be left empty if the map is retrieved from the standard source on the internet.

Note: The Map Cache Validity Timeout can be configured: <plugInVariable d2p1:name="FileCacheTimeout" d2p1:value="7.00:00:00" /:

6.14 Voice Communication

File > Setup > Voice Communication

Note: The Voice Communication tool is configured both using a configuration file delivered to each customer by Consat Telematics and with the Voice Communication setup window in Traffic Studio, described below.

The two complement each other allowing for quick changing of basic settings in the setup window, and a very detailed configuration of each used message/status code, etc. in the file.

The setup window is divided into separate sections for:

- Communication (two tabs let you set up a primary and secondary communication system)
- Audio Signals
- Logging and debugging
- User Interaction
- Sound Files and Utilities and
- Traffic Control.

Communities Secondary metric Plane Line Print Inform Secondary Metric Color Print Confly and Color Secondary Metric Color Secondary Metri	Communication View/select Network Type, Ports etc. Here you can also browse and validate the configuration file with all configuration settings.
Handle External Telephone Number Respects Remote Control Auto prefix 3 3	Audio Signals
Audo Signals	
Alarm (Radio) 💋 Browse Play	Alarm, Warning and incoming Call (Request) sounds.
Warning Browse Play	
Incoming Call Brows Play Logaring and Debugging Debuggin	Activate (check box), use default (leave browse fields empty) of browse and select audio files. Play current sound with corresponding Play button.
Enable NumPad commands Z Autoset NumLock	
Show command buttons	Logging and Debugging
Number 1	Browse the Log file Directory
Show all Company Units (genore responsibility)	User Interaction
Filter incoming requests on selected line group	
Broadcast to vehicle	Traffic Control
📔 Save 🔇 Cancel	i i i i i i i i i i i i i i i i i i i
	Responsibility and traffic control related settings

Primary/Secondary Network Communication Setup

Communication (Primary/Secondary Network)

On the two Communication network tabs, you configure network type, hardware, communication settings etc. as well as features/functions like SMS generation (see table below). The primary and secondary network tabs are identical and they use two separate configuration files.

Primary Network Second	ary network Phone Link	
Network Type	Tetra 🗸	
Modem Type	External (Cxe) / CTS PTC APP $ \lor$	
Port	COM1 \sim	115200 🗸
Secondary Port	None \sim	38400 🗸
PTC Configuration File	$C:\Tmix.Cap\Branches\R_24.11\Tm$	Browse Verify
Supports SMS		
🗌 No Answer: Text		
🔽 Request Auto Answer		
Simulation mode		
🕑 Handle External Telep	hone Number Requests	
🔽 Remote Control		
Auto prefix		3

Setting	Description
Network Type	The type of communication network: CTS (Consat) IP-based, Tetra, Rakel, etc.
	Note: With Västtrafik Rakel selected, you can also choose to use IP signalling (communication with Västtrafik Telefonboken) instead of signalling/communicating with this system over Rakel, see screenshot below. Check the IP signalling checkbox.
	Network Type 🛛 Västtrafik Rakel 🗸 🗹 IP signaling
	Modem Type Telit 🗸 🗹 Fallback for IP signaling
	Port COM1 ~ 115200 ~
	Secondary Port None V 38400 V
	With IP Signalling selected, it is possible to enable [Rakel] signalling fallback should the IP connection be lost. This will tax the Rakel network, but at least one station at every traffic control site should have fallback enabled so as not to lose functionality if the IP connection is lost.

Setting	Description		
Modem Type	Select modem/radio transceiver type. Specific types generally offer deeper integration but a General radio unit is also supported with limited functionality.		
	Select No Carrier Connected for allowing full tool functionality, minus voice communication (talking/listening).		
	Select External (Cxe) to use the Consat Voice communication app instead of a modem connected to the computer. (Consat IP-based network selected in menu above.)		
	This selection adds the Phone Link tab to the Communication section:		
	Value Communication		
	Communication		
	Primary Network Secondary network Phone Link DNS I4mdev2.tmix.se		
	Port 21000		
	Phone Id 🔽 Automatic		
	Phone Pin		
	Quick Connect Play Store		
	DNS: Supplied by Consat		
	Port: Supplied by Consat		
	Dhope Id: Check "Automatic" to automatically generate the charge ID		
	Phone Id: Check "Automatic" to automatically generate the phone ID (default setting). Uncheck to manually enter the ID (supplied by Consat).		
	Phone Pin: Security PIN code, not yet supported. With "Automatic" unchecked, the PIN can be manually entered (supplied by Consat).		
	Quick Connect (QR code): This lets you connect the phone by reading the QR code. Also displayed in the Voice Communication tool when External (Cxe) is selected as the modem and the phone (app) is not yet connected.		
	Play Store (QR code): A QR code link to the Consat Voice Communication app on Google Play Store. (App only available for Android as of now.)		
Port	Select port and speed, depending on the hardware used.		
Secondary Port	A secondary port is configured for radio-based systems/networks that use two radio units.		
	Note! If a fixed port is already configured in the configuration file that configuration overrides the setting in the Setup window (which will have no effect)!		
PTC Configuration File	Define where the Network specific configuration file is placed. Browse it and verify that it is correct and that the tool can reach it with the adjacent Browse/Verify buttons.		
Supports SMS	When this box is checked an SMS is sent to a phone number (in the configuration file) when configured messages/call requests are received.		

Setting	Description	
No Answer: Text	Here the SMS text message sent when Calls are unanswered is defined. For example "Call:".	
Request Auto Answer	When checked the vehicle systems are requested to automatically open calls, without the driver needing to pick them up.	
Simulation Mode	When checked the tool is in simulation mode and no calls are opened. This mode is available for training and demonstration purposes.	
Handle External Telephone Number Requests	Customer Specific Function	
Remote Control	Allows TS Voice Communication tool to remotely control specific vehicle radio functions. Current functionality allows TS users to turn off an active driver	
	An alarm off button is added to the Voice Communication tool. This turns off the active alarm state enabling the radio to receive incoming calls again.	
Auto Prefix	Adds configured prefix number to call numbers entered in the TS Voice Communication tool. The right numerical field sets the number of digits the user enters to dial the number. In the example setting below, the user only enters tree digits, and the tool adds the prefix before making the call.	

Status code configuration in the configuration file

In the configuration file, apart from configuring ports, groups etc. for each needed message status code used by the communication system, the following functions can be configured:

- Name in GUI
- Priority in Voice Communication tool queues
- Call and/or Information queue presentation
- Show as Alarm (Y/N)
- Remove from the queue at Call up (remove call request...)
- Colour coding in GUI
- Indication/Warning sound (Y/N)
- Alarm sound (Y/N)
- Forward as SMS
- Alarm priority level
- Description

Audio Signals

Audio Signals			
Alarr	n (Radio) 🗹	Browse	Play
	Warning 🗹	Browse	Play
Incor	ning Call 🔽	Browse	Play

Setting	Description
Alarm (Radio)	Activate sound by checking the box. Note : Leave the field empty for default sound (play sound with the Play button). Custom sound: Define the location, browse and click Play to verify a custom Alarm sound file.
Warning	Activate sound by checking the box. Note: Leave the field empty for default sound (play sound with the Play button). Custom sound: Define the location, browse and click Play to verify a custom Warning sound file.
Incoming call	Activate sound by checking the box. Note: Leave the field empty for default sound (play sound with the Play button). Custom sound: Define the location, browse and click Play to verify a custom Incoming Call notification sound file.

Logging and Debugging

Files

Loggning and Debugging Directory for Log Files	C:\i4m\var\log\PTC log	Browse
Setting		Description
Directory f	or Log	Define the location and br

User Interaction

User Interaction

Enable NumPad commands

Show command buttons

Autoset NumLock

Application wide keys

Setting	Description
Enable NumPad commands	(Default: Checked) When this box is checked the keyboard commands described in the manual control the tool. When the box is not checked the keyboard function keys are used for control (see separate documentation).
Autoset NumLock	Numlock must be active for NumPad commands to be used. This setting allows for automatic Numlock when the tool is active.
Show command buttons	Check to include command-/Function buttons in the tool window, complementing the keyboard control. Uncheck when you do not want the tool to include these buttons.
Application wide keys	Check to make the command keys always active, regardless of which tool is selected in Traffic studio. If unchecked the command keys are only active when the Voice Communication tool is selected.

Traffic Control



Setting	Description
Number	Control Center number
Description	Control Center name (free text description)
Show all Company Units (ignore responsibility)	Checked box: All vehicles in your own company are listed and available, regardless of responsibility. Unchecked box: Only vehicles in your own company, under your current responsibility are listed and can be called.
Communicates with all vehicles (ignore traffic control)	Checked box: Allowed to call all vehicles in the whole system, including those from other companies. If the box is unchecked only own vehicles are listed and can be called.

Setting	Description
Filter incoming requests on selected line group	Checked box: Filter incoming call requests depending on the current Line Groups filter setting. Unchecked box: Ignore Line Groups filter.
Broadcast to vehicle	Enable "broadcasting" to a selected vehicle, not only vehicle groups. See reference manual.

6.15 Vehicle User Interface

File > Setup > Vehicle User Interface

The settings for Vehicle user interface access include enabling direct access over the local network (communicating directly with the vehicle computer to access the interface) and alternative/complementary access through the Software Configuration Manager.

- Note: The Port and Connect Port settings are only used in specific installations. These fields are left empty by default. Consat will assist when setting up such specific systems.
- Check the "Local network (Direct)" box to enable direct communication with vehicle computers connected to the local network, like test systems, etc.
- Check the "Runtime page" box to enable access to the vehicle systems (on the local network) runtime page.
- Depending on system installation, you may need to enter Host and Path information for accessing the Configuration Manager. See below.
- Check the "HTTP" box to use HTTP instead of HTTPS (default) when accessing the Configuration Manager
- Check the "Vehicle User Interface" box to enable user interface access through the CM.
- Check the "Node Page" box to enable quick menu access to the software configuration manager node page of the vehicle.

👼 Vehicle User Interface — 🗆 🗙	
Local network (Direct) Port Connect port Connect port Consci port Consci network (Direct) Co	Settings: driver interface – direct access over local network.
Software Configuration Manager Host Path ITS4depot http Vehicle User Interface Volte page	Settings: Configuration manager access tool, driver interface through Configuration manager.
Cancel Save	

• Click on the "Save" button to save your settings/changes.