# **Consat Telematics Solution**

Configuration Manager (its4Depot) Reference Manual

Covers Front End Version 25.7.(X) (w. corresponding backend).

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Term	Explanation
СМ	Configuration Manager, also called "its4Depot".
Partition	A separate "data compartment" in the Configuration Manager, is useful for separating companies/operators and vehicles/signs (display systems). Each partition can only be accessed by users belonging to the corresponding user group.
Fleet	A vehicle/display system group with a common resource set.
Vehicle/Sign	Vehicle/display system equipped with Consat Telematics hardware.
Category	A vehicle/display system group with common software and configuration settings.
Member	A vehicle/display system that belongs to a group (fleet/category)
Node	A "distribution point" in the system –can be a physical vehicle/sign computer or a virtual unit used for defining an installation package.
Resource	Traffic data, sound files, etc. are used by the vehicle/display system.
Resource type	Resources are divided into types: Traffic database, sound files
Customization	Customizations are ready-made packages put together for a particular customer. They contain configurations, boot-up images, sign settings, etc.
Parameter Group	A "set" of configuration settings. It makes common but complex settings easier to handle.
Hardware-ID	A unique ID hardcoded into every vehicle/display computer, not changeable by the users. The hardware ID is used for identifying the individual units/vehicles in the Consat Telematics system.

The Configuration Manager works much like a "heart" or nervous system in a Consat Telematics system. This system, with its web user interface, handles and distributes software, resources, and configuration data to all individual vehicles and display systems.

Two examples of typical resources are traffic data and sound files for the next stop and destination announcements.

Configuration data can be individual display system settings, volume settings, and configuration controlling when the next stop announcement shall be triggered.

The Configuration Manager can be said to consist of three major parts: The Application Server, running the user interface, The Configuration Manager Server, running the core functionality, and the Node Manager handling/distributing data to and from the individual vehicles/displays.

The Client providing the user with the user interface for controlling the Configuration Manager is a normal Web browser (Microsoft Explorer or Google Chrome).



## **3** Accessing the Configuration Manager

## 3.1 Configuration Manager/"Its4Depot" in the Customer Portal

You can access the web CM interface in your customer portal:

. W	elcome	to I4MTE	ST5
TRAFFIC STUDIO	ITS4DEPOT	FLEET STUDIO	ITS4DOCS
FAULT MANAGEMENT	ANYRIDE	FLEET MANAGEMENT 2	MEDIA MANAGEMENT STUDIO
TRAFFIC LOG REPORT	WEB DISPLAYS [TEST TOOL]	apis (siri/gtts/vehicle)	
4		© 2025 - Consat Telemat	ks AB 25 5.120.2@C103012

### 3.2 Web App Installation – Direct Access

For easy access on mobile devices (Android, IOS) and Windows Computers, you can install an "app shortcut" (depending on configuration).

With an installed "app" in a mobile device or computer, the CM will show up and can be accessed as an app/program in the device.

## 4 Basic Configuration Manager Terminology

The Configuration Manager interface is a tool for administering the potentially large and complex library of software releases, resources, and configurations, for all vehicles belonging to operators servicing different lines. To do this effectively, vehicles and display systems must be grouped. That way settings, changes, and updates can be applied to whole groups instead of to individual units.

Below we explain the basic terminology needed for understanding the Configuration Manager grouping.

## 4.1 Configuration Manager Partitions

The Configuration Manager data is normally divided into partitions or sections with separate user access. Each partition is accessed through its user group. To access all partitions a user must be a member of all groups.

Normally, partitions are used for handling vehicle and display (sign) systems separately and for handling companies that must not be able to access the traffic data or vehicle status information of their rivals. Partitions can also be used to divide the system into other logical sections, depending on the organization.

## 4.2 Vehicles and Signs (display systems)

A vehicle or sign in the Configuration Manager represents a physical vehicle or sign.

• Every vehicle/sign has a name (vehicle/display system number) and a hardware ID for identifying the unit computer.

### 4.3 Vehicle/Sign Grouping

Apart from individual vehicles and signs, there are two distinct groupings used by the Configuration Manager: **Categories** and **Fleets**.

### 4.3.1 Category

• The Category grouping of vehicles/signs is used for units with the same hardware configuration which means they have the same software and configuration needs.

**Vehicles** with the same hardware (like signs, displays, and sound systems) are normally placed in the same category. A few examples of configuration parameters set per category are sound volume, display protocols, and -resolution.

 Individual vehicles can, of course, have special hardware installed; demanding special configuration, but the standard way of handling both software and configuration is applying it to whole categories.

### 4.3.2 Fleet

## • The Fleet grouping of vehicles and display systems is used for easier handling of units with the same resource needs (like traffic data and sound files).

The Configuration Manager can handle hundreds of vehicles from different companies, servicing different lines. If a company/operator services certain lines a custom resource set for the fleet of that company can be created to greatly simplify the traffic data distribution. Individual companies of course also have separate driver lists (used for the vehicle system login function if that function is included), which is also a resource suitable for the whole company fleet.

### 4.3.3 Only one Membership of Each Type

• A unit (vehicle/display) can be a member of only one fleet and one category.

### 4.3.4 Individual Settings Overrides Groups

• Parameters set for an individual unit that is a member of a category override the category parameter settings.

### 4.4 Parameter Groups

Apart from the Fleet and Category terms, **Parameter Group** is a term you should be familiar with as a CM user.

• A Parameter Group is a preset, a collection of pre-defined settings that can be applied to a whole Category or individual units (vehicles/display systems).

Parameter groups for, for example, a certain type of loudspeaker system or vehicle display combination make the configuration of diverse vehicle fleets much easier.

Privileged

## **5** Operators use Separate Partitions

Many Companies/Operators can share the same Configuration Manager. In that case, they will use separate partitions. The Windows-based User Rights handling and the partition selection in the user interface make sure a Company will not get access to any data from a competitor. See the next chapter for user rights administration and limits for different user groups.

• Operators/companies with their respective partitions are administered by Consat Telematics (added/edited/deleted) in the Configuration Manager.

## **6** User Rights Administration

The Configuration Manager uses standard Windows User administration for handling user partition and functionality access (including the adaptation of the interface configuration: What tabs the user can see and access).

- The Configuration manager uses a username plus password authorization.
- The users not only get access to different partitions by being members of the corresponding Partition Groups but access different levels of functionality depending on which User Group they are a member of.



- For more details about user administration, see current Windows documentation.
- For a detailed description of the functionality access of the four different user groups, see the next page.

	Users	Power Users	Super Users	Installation Staff
Vehicles				
See vehicles w. configuration and software	х	х	х	х
Add, edit, remove vehicles		x	х	
Change vehicle software		х	х	
Change vehicle configuration			х	
Fleets				
See fleet members (vehicles/display systems)	х	х	х	
See fleet resources	x	х	х	
Add, remove fleet members (vehicles/display systems)		х	х	
Create, delete fleets			х	
Add fleet resources			х	
Categories				
See category members	x	x	x	
See category software	x	х	x	
Add, remove category members (vehicles/display systems)		х	х	
Create, remove categories			х	
Edit category configuration			х	
Assign category software			х	
Deliveries				
See available software (deliveries)	х	х	х	
Add, remove software (deliveries)			x	
Resources				
See available resources and resource content files	X	x	x	

## 6.1 User Groups: Functionality Access

	Users	Power Users	Super Users	Installation Staff
Add, remove resources/-files			х	

Privileged

## 7 Application Overview

The Configuration Manager (web) application runs in a standard browser. Microsoft Explorer or Google Chrome is recommended, but others might work even if they are not officially supported.

All (user level) status monitoring, administration, and updates to software deliveries are handled through this web application.

The application is divided into eleven tabs (depending on configuration). In the following chapters, the functionality available under each tab is described. The short tab description list on the following page can be useful as an overview.

## 7.1 Select Partition/Operator

If you have access to two or more partitions (for different operators, vehicles/signs, etc.) you can select the one you want to work with using the **Partition selection menu** at the top of the page.



## 7.2 (Report) Search field

The top search field is a function in development. In its present version, it allows you to quickly perform a search for a report but the functionality will be expanded to other sections of the application in the future. See chapter 8.9 for more information.



• Note that the tabs/views available to you depend on your particular system configuration.

Tab	Description
Overview	Quick status overview with pie charts, plus a vehicle list with customizable information columns and status indications.
Vehicles	Individual vehicles are handled using this tab. Software delivery, resources, and configuration are handled in subsections. Sections for remote diagnostics and history logs are also available. New vehicles can be added and installation packages can be created on this tab also (function duplicated on the Installation tab).
Installation	On this tab, all of the functionality needed by the installation staff is concentrated. When a user is a member of the I4M Installation Staff group the user interface is adapted and most tabs are not visible, so optimize the interface for the specific installation task.
Fleets	Fleet groupings are created, edited, and deleted under this tab. Fleet members can be added or removed from created fleets. And the fleet-specific resources can be added/removed.
Categories	Under this tab, Categories are created/edited and deleted. Members can be added or removed from the groupings. Category-assigned software deliveries are also set here.
Deliveries	Software deliveries are handled under this tab.
Resources	Resources (containing several files) and individual resource files are added, edited, and removed under this tab.
Reports	Under the Reports tab overview reports for all vehicles can be created, covering one or more partitions.
Parameter Groups	Here all pre-defined Parameter Groups are handled, including attaching these to individual vehicles or whole categories.
Common settings	Here, selected and often used settings can be dited using a simplified user interface.
InfoText	Functionality for distributing and triggering driver information messages (can be activated inside a specific rectangular geographic area).
Nova Bus	Nova Bus specific functionality, see appendix A.
Diagnose	Trouble Shooting page with a remote driver display screen and positioning functionality.
Fault Management	Here all active system/equipment faults are listed.

## 7.4 Keyboard Shortcuts for Tab Selection

Pressing the following key  ${\bf with} \ {\bf nothing} \ {\bf else} \ {\bf focused} \ {\bf will} \ {\bf navigate} \ {\bf to} \ {\bf that} \ {\bf tab} \ {\bf in} \ {\bf the} \ {\bf Depot} \ {\bf GUI:}$ 

- 'o', Overview
- 'v', Vehicle / Sign / Node
- 'i', Installation.aspx
- 'f', Fleet
- 'c', Categories
- 'd', Deliveries
- 'r', Resources
- 'p', ParamGroups
- 's', Common Settings
- 't', Info Text
- 'n', Nova
- 'l', Live
- 'm', Fault Management
- 'e', Editors

## 8 Application User Interface

### 8.1 Overview

With a vehicle partition selected, under the Overview tab you will find quickly grasped statistics, telling you how well the system works, and below more detailed status information for every vehicle or sign in the partition. With a sign partition selected this view is displayed on the sub-tab Nodes. (See below and the following chapter.)

١,	Overview Signs I	Installation Fleets Ca	With a Sign partition selected the overview described below is presented on the "Nodes" sub
l	Nodes	Signs	tab.

The view is divided into an upper graphical statistics overview and a lower vehicles overview list with colour-coded cells showing the status for deliveries, resources, and configurations separately. The Vehicles overview is highly customizable.



To get a quick idea of how up-to-date the vehicles/signs in the selected CM partition are, just glance at the five pie charts in the Overview section and look at the shortlist showing the communication status for the last hour and 24 hours respectively.

The **Active Faults** pie chart shows the distribution between the most common active fault types. (Note that these are active faults – current faults that have not been cleared. No-fault history is available.)

The **Assigned Deliveries** pie chart shows the software delivery distribution for the partition (how many units have which delivery assigned).

The three **Delivery, Resource, and Config Status** pie charts show the proportion of vehicles/signs running their assigned deliveries, resources, and configurations and those pending, downloading awaiting download, etc. If these charts look like green discs everything is up to date.



### 8.1.2 Vehicles/Signs Overview

The underlying overview shows the current status of individual vehicles/signs. It is very flexible. By clicking on the Default view/Delivery view/Resource view/Configuration view or Communication view you can tailor the status list to your needs. And the additional View filter lets you focus on the information needed.

Separate column-free text filters also let you filter the list quickly. Enter text/numbers to filter the list: Only rows with column cells matching the corresponding filter will be shown.

View Filter		/iew Selection Individual	Column list filters				
		Ishow up-to-date vehicles Include decommissioned vehic Show only decommissioned ve Show hardware ID Show last seen IP address Show system address Show display name Show display name Show display name Show external idShow last	les hicles system test □Show Categon	/ □Show Feet			
Set page division	lten	Default view ODelivery view	OResource view OConfigu	ration view O Communication view			
per page)		Name	Downloaded	Assigned Delivery	Delivery	Resource	Config
1.1.3.0		filter	filter	filter	filter	filter	filter
	5	21850-02339front	2023-04-26 10:55:47	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
		21850-02339middleFront	2023-04-26 10:55:48	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
/		21850-02339middleRear	2023-04-26 10:55:53	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
Displayed		21850-02344front	2023-04-25 08:49:06	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
rows / total		21850-02344middleFront	2023-04-25 08:49:44	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
rows (como info		21850-02344middleRear	2023-04-25 08:49:34	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
(same into below table)		21850-02347front	2023-04-24 09:24:19	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
,		21850-02347middleFront	2023-04-24 09:24:23	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
		21850-02347middleRear	2023-04-24 09:24:08	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
		21850-02351front	2023-03-30 12:10:35	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
		21850-02351middleFront	2023-03-30 12:10:58	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
		21850-02351middleRear	2023-03-30 12:10:42	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	awaiting download	awaiting download
	C	21850-02501	2023-05-03 04:29:49	i4m_vehicle_agent-MX4-linux-26 22.12.6	active	active	active
		21850-02501front	2022-11-29 10:10:21	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	active	active
		21850-02501middleFront	2021-01-25 13:25:45	i4m_vehicle_agent-ATOM-linux-26 22.12.4	awaiting download	awaiting download	awaiting download
		21850-02501middleRear	2022-11-29 10:05:26	i4m_vehicle_agent-ATOM-linux-26 22.12.4	active	active	active
		21850-02502	2023-05-02 23:19:33	i4m_vehicle_agent-MX4-linux-26 22.12.6	active	active	active
		21850-02502middleEropt	2022-11-28 15:39:18	i/m vehicle agent-ATOM-linux-26 22 12 /	activo	activo	activa

#### View Filter

Apart from choosing the desired view, you can customize the list presentation by ticking/unticking the boxes above the list. For instance, showing only vehicles not up to date (untick the show up-to-date vehicles box) may shorten the list considerably and thereby allowing you to focus on the vehicles/signs that need attention.

## Tick the Show up-to-date vehicles box to include the vehicles that are running up-to-date deliveries, resources, and configurations.

Tick Include/Show only decommissioned vehicles to view such "ex vehicles".

Tick the **Show hardware ID** box to include the Hardware ID column in the list view.

Tick the Show last seen IP address box to include the corresponding column in the list view.

Tick the **Show last communication time** box to include the corresponding column in the list view, showing when the vehicle/sign was last in contact with the Configuration Manager.

Tick the **Show System address** box to include the corresponding column in the list view.

Tick the **Show display name** box to view the "display name" of the vehicle/sign for easier identification. (The display name is manually set on the Vehicles/Signs tab.)

Tick the **Show fault status** box to view the number of active faults for each vehicle/sign. (Sort the list after this column to quickly find units with faults)

### 8.1.3 Vehicles Overview: Status Presentation Columns

The current delivery (software), resource, and configuration status are presented in the three status columns in the list.

. . . . . . . .

Delivery filter	<b>Resource</b> filter	Config filter
awaiting download	awaiting download	awaiting download
awaiting download	active	awaiting download
awaiting download	active	awaiting download
awaiting download	active	awaiting download

active: The assigned delivery/resource/configuration is in use.

**pending:** The assigned delivery/resource/configuration has been downloaded but is not yet in use. (Reboot must occur first.)

preparing to sync: The vehicle/sign computer is preparing to sync something from depot.

Before download starts it will internally sync data from the active to the inactive tree, then it will sync the inactive tree with the new data from the depot. To make this new delivery/resource/configuration active, the computer will then switch active and inactive trees when it reboots.

downloading: Download in progress.

**download failed:** An assigned download has failed. **Note:** A download can temporarily fail for many reasons, it can be that the vehicle has been turned off, that it has temporarily lost contact with the central or that too many vehicles are synching their software at the same time (a maximum of 100 vehicles can be synchronized simultaneously).

If the Download failed status will not remain for a long period usually there is no need for concern.

awaiting download: The assigned delivery/resource/configuration awaits download.

Note: The vehicle/vehicle system must be powered for download to start. If vehicle system is on and the awaiting download state persists, there may be a communication problem: Check the SIM card, antenna, coverage... Run the central system connection system test (in the maintenance menu) to verify.

**awaiting the first download:** An initial delivery/resource/configuration awaits download. This vehicle/sign is registered in the CM but has never downloaded any data.

Note: The vehicle/vehicle system must be powered for download to start. If vehicle system is on and the awaiting the first download state persists, there may be a communication problem: Check the SIM card, antenna, coverage... Run the central system connection system test (in the maintenance menu) to verify.

**not allowed:** The node is not allowed to sync. (The reasons for this can vary, it can be because the node is not activated, etc.).

#### 8.1.4 Vehicles Overview: Default View

	<ul> <li>● Default view</li> </ul>	O Delivery view	v ⊖Resource vie	ew OConfigurat	ion view ○Comm	unication view	
l	Name	Hardware Id	System Address	Last IP	Downloaded	Communicated	Assi Deli
L	filter	filter	filter	filter	filter	filter	filter

Presented in this view:

Header	Description
Name	Unit name, operator number followed by vehicle/sign number.
Display Name (optional - view filter)	The set display name of the vehicle/sign (see "Vehicles" chapter for information about setting display name).
Faults (optional - view filter)	The number of <b>active</b> faults in the unit (vehicle/sign). See also separate Fault management tab chapter.

Header	Description
Hardware Id (optional - view filter)	Unique hardware (vehicle/sign system computer) ID.
System Address (optional - view filter)	Vehicle/sign system address
Last IP (optional - view filter)	Last registered IP address for the vehicle/sign.
Downloaded	Timestamp showing when the vehicle/sign last completed a successful delivery/resource/configuration.
Communicated (optional - view filter)	Timestamp showing when the vehicle/sign system last communicated with the CM. Colour coding of the table cell: Vehicles that have communicated the last: O-12 hours: White 12-24 hours: Light Yellow 24-36 hours: Light Yellow 36-72 hours: Crange More than 72 hours: Red For vehicles with unknown communication time/that have not yet communicated, the cell is grey and contains no data.
Assigned Delivery	Name of the delivery assigned to the vehicle/sign.
Delivery, Resource, Config status	A status indicator showing current status, see description above.

## 8.1.5 Vehicles Overview: Delivery View

Name         Hardware Id         System Address         Last IP         Downloaded         Communicated         Assigned Delivery           filter         fil	l	O Default view	• Delivery view	v OResource vie	ew OConfigurat	ion view ○Comm	unication view	1-20
		Name	Hardware Id filter	System Address	Last IP	Downloaded	Communicated	Assigned Delivery

Header	Description
Name	Unit name, operator number followed by vehicle/sign number.

Header	Description
Display Name (optional - view filter)	The set display name of the vehicle/sign (see "Vehicles" chapter for information about setting display name).
Faults (optional - view filter)	The number of <b>active</b> faults in the unit (vehicle/sign). See also separate Fault management tab chapter.
Hardware Id (optional - view filter)	Unique hardware (vehicle/sign system computer) ID.
System Address (optional - view filter)	Vehicle/sign system address
Last IP (optional - view filter)	Last registered IP address for the vehicle/sign.
Downloaded	Timestamp showing when the vehicle/sign last completed a successful delivery/resource/configuration.
Communicated (optional - view filter)	Timestamp showing when the vehicle/sign system last communicated with the CM. Colour coding of the table cell: Vehicles that have communicated the last: 0-12 hours: White 12-24 hours: Light Yellow 24-36 hours: Light Yellow 36-72 hours: Orange More than 72 hours: Red For vehicles with unknown communication time/that have not yet communicated, the cell is grey and contains no data.
Assigned Delivery	Name of the delivery assigned to the vehicle/sign.
Active Delivery	Name of the delivery currently active in the vehicle/sign.
Delivery status	A status indicator showing current status, see description above.

### 8.1.6 Vehicles Overview: Resource view

O Default view	O Delivery viev	Resource vie	ew OConfigurat	ion view ○Comm	unication view	t
Name	Hardware Id	System Address	Last IP	Downloaded	Communicated	Assigned Resources
filter	filter	filter	filter	filter	filter	filter

Header	Description		
Name	Unit name, operator number followed by vehicle/sign number.		
Display Name (optional - view filter)	The set display name of the vehicle/sign (see "Vehicles" chapter for information about setting display name).		
Faults (optional - view filter)	The number of <b>active</b> faults in the unit (vehicle/sign). See also separate Fault management tab chapter.		
Hardware Id (optional - view filter)	Unique hardware (vehicle/sign system computer) ID.		
System Address (optional - view filter)	Vehicle/sign system address.		
Last IP (optional - view filter)	Last registered IP address for the vehicle/sign.		
Downloaded	Timestamp showing when the vehicle/sign last completed a successful delivery/resource/configuration.		
Communicated (optional - view filter)	Timestamp showing when the vehicle/sign system last communicated with the CM. Colour coding of the table cell: Vehicles that have communicated the last: O-12 hours: White 12-24 hours: Light Yellow 24-36 hours: Light Yellow 36-72 hours: Orange More than 72 hours: Red For vehicles with unknown communication time/that have not yet communicated, the cell is grey and contains no data.		
Assigned Resources	The timestamp for assigned resources.		
Active Resources	Timestamp for active resources. If the assigned resources are in use, "Same as assigned" is displayed.		
Resource status	A status indicator showing current status, see description above.		

### 8.1.7 Vehicles Overview: Configuration View

⊖Default view	⊖Delivery viev	v ⊖Resource vie	ew  © Configurat	ion view O Comm	unication view		
Name	Hardware Id	System Address	Last IP	Downloaded	Communicated	Assigned Config	
filter	filter	filter	filter	filter	filter	filter	[

Header	Description
Name	Unit name, operator number followed by vehicle/sign number.
Display Name (optional - view filter)	The set display name of the vehicle/sign (see "Vehicles" chapter for information about setting display name).
Faults (optional - view filter)	The number of <b>active</b> faults in the unit (vehicle/sign). See also separate Fault management tab chapter.
Hardware Id (optional - view filter)	Unique hardware (vehicle/sign system computer) ID.
System Address (optional - view filter)	Vehicle/sign system address.
Last IP (optional - view filter)	Last registered IP address for the vehicle/sign.
Downloaded	Timestamp showing when the vehicle/sign last completed a successful delivery/resource/configuration.
Communicated (optional - view filter)	Timestamp showing when the vehicle/sign system last communicated with the CM. Colour coding of the table cell: Vehicles that have communicated the last: O-12 hours: White 12-24 hours: Light Yellow 24-36 hours: Light Yellow 24-36 hours: Light Orange 36-72 hours: Orange More than 72 hours: Red For vehicles with unknown communication time/that have not yet communicated, the cell is grey and contains no data.
Assigned Config	The timestamp for the assigned configuration.
Active Config	Timestamp for active configuration. If the assigned config. is in use, "Same as assigned" is displayed.

Header	Description
Config Status	A status indicator showing current status, see description above.

### 8.1.8 Vehicles Overview: Communication View

○Default view ○Delivery view ○Resource view ○Configuration view ●Communication view							
Name filter	Hardware Id filter	System Address filter	Last IP	Downloaded	Communicated	Node Version Request filter	

Header	Description
Name	Unit name, operator number followed by vehicle/sign number.
Display Name (optional - view filter)	The set display name of the vehicle/sign (see "Vehicles" chapter for information about setting display name).
Faults (optional - view filter)	The number of <b>active</b> faults in the unit (vehicle/sign). See also separate Fault management tab chapter.
Hardware Id (optional - view filter)	Unique hardware (vehicle/sign system computer) ID.
System Address (optional - view filter)	Vehicle/sign system address.
Last IP (optional - view filter)	Last registered IP address for the vehicle/sign.
Downloaded	Timestamp showing when the vehicle/sign last completed a successful delivery/resource/configuration.

CommunicatedTimestamp showing when the vehicle/sign system last communicated with the CM.Colour coding of the table cell: Vehicles that have communicated the last:Communicated(optional - view filter)12-24 hours: Light Yellow24-36 hours: Light Orange 36-72 hours: Orange More than 72 hours: Red	Header	Description
Colour coding of the table cell: Vehicles that have communicated the last:Communicated0-12 hours: White(optional - view filter)12-24 hours: Light Yellow24-36 hours: Light Orange36-72 hours: OrangeMore than 72 hours: Red12 hours: Red		Timestamp showing when the vehicle/sign system last communicated with the CM.
Communicated0-12 hours: White(optional - view filter)12-24 hours: Light Yellow24-36 hours: Light Orange36-72 hours: OrangeMore than 72 hours: Red		Colour coding of the table cell: Vehicles that have communicated the last:
(optional - view filter)12-24 hours: Light Yellow24-36 hours: Light Orange36-72 hours: OrangeMore than 72 hours: Red	Communicated	0-12 hours: White
filter)24-36 hours: Light Orange36-72 hours: OrangeMore than 72 hours: Red	(optional - view	12-24 hours: Light Yellow
36-72 hours: Orange More than 72 hours: Red	filter)	24-36 hours: Light Orange
More than 72 hours: Red		36-72 hours: Orange
		More than 72 hours: Red
For vehicles with unknown communication time/that have not yet communicated, the cell is grey and contains no data.		For vehicles with unknown communication time/that have not yet communicated, the cell is grey and contains no data.
Node Version Request The timestamp for the last version request from the vehicle/sign (periodical but can be manually triggered by CM user)	Node Version Request	The timestamp for the last version request from the vehicle/sign (periodical but can be manually triggered by CM user)
Download Timestamp showing the last time the vehicle/sign has tried to download data from the CM.	Download	Timestamp showing the last time the vehicle/sign has tried to download data from the CM.
Upload Timestamp showing the last time the vehicle/sign has tried to upload data to the CM.	Upload	Timestamp showing the last time the vehicle/sign has tried to upload data to the CM.

### 8.1.9 Sort List based on a selected column

You can sort the presented list by clicking on a column header. A sorting symbol shows the selected column and the sorting order. To sort the list after the same column but reverse the sorting order, simply click on the header again.



### 8.1.10 Save Overview Table/List as CSV File

You can easily save the (filtered) overview list as a CSV file by clicking on "Save [the] table as CSV" under the list.



The **Move Nodes** function allows you to move one or more items/nodes (Vehicles, including onboard systems/displays, or Signs) from one operator to another. You can perform the move live or schedule it to be performed at a suitable time.

In a CM configured to include this function, you will find a Move Nodes sub-tab under the Overview tab, selection checkboxes on all rows on the Overview tab, and an extra "Batch Move" button under the list, see below.

#### Select Nodes to Move



### 8.2.1 The Move Nodes Sub Tab

When you have selected a set of nodes to move from the currently selected company operator to another company [in your system] and click Move Nodes, the Move Nodes subtab will show and look like the one below. A scheduling calendar and the selected nodes are displayed in the top Move Nodes section.

You can choose to rename your nodes when you move them, see below.

Ninit New Koles	
- More Nodes 	To schedule the move of the vehicles in the list, use the calendar and time section. (Current day and time default.)
1147 Targat Operator QA Decessive Target Operator Instance V	Target (optional operator instance) – this is where the nodes will end up.
Name part page         200         1 - 3 / 7           Name         Name Name         Communicated         Commande           21650 02552         Isia         219900 02502         2023 04-03 10 11 16         Edit Remove           21650 02553         Isia         219900 02503         2023 04-03 10 11 17         Edit Remove           21650 02556         Isia         219900 02506         2023 04-03 10 11 17         Edit Remove           21650 02566         Isia         219900 02506         2023 04-03 10 11 17         Edit Remove           Pages: 1	Selected nodes, current name, move status, new name (for renaming) and communicated (time stamp showing last communication with the node). Commands for editing the name as the node is moved and for removing the node from the list.
Terms per page 200    1-0 / 0  Kenn Move State New Name Tol Communicated Commands  Com- Com- Com- Pages: 1  Stree table as cov	Nodes scheduled for move, incl. time when move is to be performed.
- Marin Toldar (Thin) Tenn per page [20]   1-0   0 Tenn per page [20] Pergen: 1 Pergen: 1 Serve table as new	Move history [to/from currently selected company]: All nodes, including move time, their old name and name after the move. Last communication time stamp.
A "snapshot" of each table can be exported/saved as a csv file with the corresponding button.	

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As node names are normally used to identify the company the node belongs to, you will normally have to rename nodes that are to be moved. You define the new names of the nodes before you perform/schedule the move.

1. Click on "**Edit**" on the row in question in the Commands Column in the Move Nodes section. The row will be highlighted and the New Name field will switch to edit mode.



2. Change the name to suit the new company. (Copy-paste prefix for multiple nodes, etc.)

New Name	Communicated	Commands
filter	filter	
218300-02502	2023-05-03 12:10:20	Uppdatera Avbryt
218300-02503	2023-05-03 09:27:29	Edit Remove

3. Click on **Update** in the Commands column. The New Name will be updated. This is the name of the node after the move.

filter	filter	
12000-011111	2023-05-03 12:10:20	Uppdatera Avbryt
218300-02503	2023-05-03 09:27:29	Edit Remove

### 8.2.3 Remove a selected node from the move list

Click on **Remove** in the Commands column. The node is removed immediately.

1	21850-02503	Init	218300-02503	2023-05-03 09:27:29	Edit Remove
I,	Panes 1				

### 8.2.4 Move [selected/listed] nodes to another company

1. Select a suitable date and time for the move. (The default selection is the current date, time).



2. Select a target company (and, optionally instance, if applicable).

Target Operator	Käringötrafiken	~
Target Operator Instance		~

- 3. If needed, rename nodes, see above.
- 4. Verify the details of your move list.

5. Click on the **Move Nodes** button.

Move Nodes

The Move Nodes section will close and the nodes will instead be listed in the Move Nodes Status section. If this section already lists nodes planned for move the new nodes will be added to that list.

### 8.2.5 Cancel Move

If you change your mind, you can cancel the move by clicking on "**Cancel Move Nodes**". The Move Nodes section will close.

Cancel Move Nodes

### 8.2.6 Remove a Node From a Scheduled Move

If you want to exclude a node from an already scheduled move, you can do this in the Move Nodes Status list. Simply click on **Remove** in the Commands column.

ŀ	-Move Nodes Status	Move Nodes Status-									
	Items per page: 200    1-3 / 3										
l	Namn	Move State	New Name	Tid	Communicated	Commands					
l	filter	filter	filter	filter	filter						
l	21850-06512	Scheduled Move	218300-06512	2023-05-09 13:48:00	2023-05-03 10:11:05	Remove					
	21850-06513	Scheduled Move	218300-06513	2023-05-09 13:48:00	2023-05-03 10:43:43	Reinove					
l	21850-06514	Scheduled Move	218300-06514	2023-05-09 13:48:00	2023-05-03 13:09:51	Remove					

With a sign/display partition selected, the Overview tab will have two sub-tabs displayed below: Nodes and Signs (beside the Move Nodes tab, if configured).

(Note: This sub-tab is not to be confused with the Signs tab described in the next chapter). The Nodes tab is described in the previous Overview chapter.

0	verview	Signs	Installation	Fleets	Ca
F	Nodes		Sigr	ıs	

### 8.3.1 Signs sub-sub tabs: Disco, IDGP

In systems with both Disco (Consat) signs and IDGP (radio) signs, these will be listed separately. Under the Signs sub-tab you will find both Disco and IDGP sub-sub tabs. From these separate lists you can access the settings view for each sign (described below).

nywe Signs Instalation Index Signs Move Rodes	Florts Categories Defineries	Resources Reports Parameter G	inaga Common Sellings Info Fact	Nova flax Fault Management	Edition		
dgp Signs							
Name	Header	Description	Stops	Flags	Comment	Croated	Commands
liter	filter	fater	filter	Idler	fider	filter	
esting Brung			12102	Disabled, 1.,		2013-09-12 09:27:50	Bemove
234		new/		Test,1.,		2024-09-30 00:09:27	Remove
666		Petter IDGP	Strandkaiterminalen : 010130	Test, 1,,	IDGPtest	2024-09-30 09:17 20	Remove
234Ext		1234Desc	Festplassen . 011098	Test, 1,,	1234Comment	2024-10-02 10:05:44	Remove
annaz IDGP skvit1		Tannaz IDGP skylt	Asane terminal : 011200	Test, 1.,	no comment	2024-10-02 10:09:27	Remove
annaz IDGP skylt2		Tannaz IDGP skylt	Handelshøyskolen 011104	Production 1.	no comment	2024-10-02 10:12 19	Remove
'ages: 1 Savo toble as cav Lagg till							5-6

- Each Sign name (extreme left column) links to a corresponding Sign configuration/settings page, see the following chapter.
- Each Depot Node links to the Sign tab, with the corresponding sign selected.

Signs						
Items per page: 2	00					1-18 / 18
Name	Header	Description	Stops	Flags	Comment	Ui
filter	filter	filter	filter	filter	filter	filter
PetterPoltechTest	Petter-AIC4- Skyss	PetterPoltechTest	Bryggen B : 12010128	Test,1,Logging,		mr://30000210:
ATOM-actia-v- shape-1	Olav Kyrres gate A3 - (v-shape 1) - pend	lars I - setting pending	Olav Kyrres gate A : 12010200	Pending,1,Logging,		mr://30000210
6-radigBareSign	6-radigBareSign	6-radig testskylt på väggen i fordonsrummet	Bryggen A : 12010122	Production,1,Logging,FM		mr://30000210
<u>AIC4 3row skyss</u>	AIC4_3row_skyss	AIC4_3row_skyss	Bergen busstasjon C : 12010021, Bergen busstasjon J : 12010028, Bergen busstasjon A : 12010030	Test,1,Logging,FM		mr://30000210-
<u>MX4-</u> 192 168 2 73	MX4- 192_168_2_73	MX4- 192_168_2_73	Olav Kyrres gate A : 12010200, Olav Kyrres gate C : 12010202, Olav Kyrres gate E : 12010204, Vetås nord : 12604135, Liavegen : 11234, Mannsverk : 11446, Skarphaugen : 12012103, Statoilstasjonen Sandsli : 12016689	Production, 1, Logging, FM	asdasd	mr://30000210+
6-radigBareSign- niclasjobb	6-radigBareSign- niclasjobb	6-radigBareSign- niclasjobb	Bryggen A : 12010122	Test,1,Logging,FM		mr://30000210
mx4-niclas-jobb	mx4-niclas-jobb	mx4-niclas-jobb	Skarphaugen : 12012103, Skarphaugen : 12012116	Test,1,Logging,FM		mr://30000210:
mx4-gtt-test-2	mx4-gtt-test-2	mx4-gtt-test-2	Skarphaugen : 12012103, Skarphaugen : 12012116	Test,1,Logging,FM		mr://30000210

Header	Description
Name	The name of the sign Note: Link to the DISCO Settings view, see chapter 8.3
Header	The sign header is presented to the passengers (normally the Stop Points Covered)
Description	Optional description.
Stops	The stop(s) the sign is configured to present forecasts and traffic information.
Flags	Sign state and settings flags: Production/Test/Disabled/Pending (flags describing the sign production mode but not affecting its functionality) Forecast horizon ("duration") value – how far ahead the forecasts reach. Logging (on/off) Fault Management on/off ("Monitor Connection")

Header	Description
Comment	Optional comments, for instance about testing, installation, etc.
Uri	The Sign Uri
Created	Timestamp showing when the setting/configuration was last saved.
Depot Node	The sign node in the CM Note: Link to the Sign tab with the sign pre-selected.

#### 8.3.2 DISCO/IDGP Settings (Configure Sign, Presentation)

When you click on a Name link, the DISCO/IDGP Settings view will open, see below. Here you can (depending on the sign type) set/edit the sign header, and various settings and configure the stops and passing lines the sign is to cover. You can also manually enter/edit and verify geographical coordinates for the sign (enabling correct positioning in the Traffic Studio application).

#### • Changes will be highlighted. Save your changes by clicking on the Save Changes button. (It will only be active when you have made changes.)



Save Changes button will be highlighted – Click to save.

Header	Description
Header	The sign header is presented to the passengers (normally the Stop Points Covered)

Header	Description
Description	Optional sign description. (Visible in the My Displays tool in Traffic Studio)
Comment	Optional comment. (Visible in the My Displays tool in Traffic Studio)
Forecast duration	The forecast "horizon": How far ahead the forecasts are to cover. HH:MM:SS
Server	The forecast server (menu)
Uri	The Sign Uri
Flags	<ul> <li>Sign state and settings flags. Checkbox to enable.</li> <li>Logging on</li> <li>Show Arrival Time (instead of departure time)</li> <li>[Enable] Monitor Connection (Fault Management monitoring)</li> </ul>
Status	Select sign state: Production/Test/Disabled/Pending (flags not affecting functionality, only information)
Latitude	(Optional) Geographical Latitude
Longitude	(Optional) Geographical Longitude – verify on map presentation
Google Maps Link	Link to Google Maps online, for checking the positioning, etc. <b>Tip:</b> Copy-Paste Long-Lat from Google Maps to the corresponding fields in the DISCO Settings view to enter the position.
Stops	All stops the sign is configured to cover (present forecasts and information for). See below for how to add/edit the stop/lines settings.

#### Enter/Edit Sign Presentation

Check/Uncheck the "Flags" settings to configure the sign to show either Departure time (default) or Arrival time ("Show Arrival Time" box checked) and the forecast duration (horizon).

The stops the sign is to cover are configured in the Stops section.

• Note that you must click on the "Save Changes" button to save.

#### Add a Stop to the Presentation:

1. Open the **Select a stop to add** a menu at the bottom of the stops list by clicking on the menu button. A search field will show, asking you to enter at least two characters included in the stop name.
| otatolistasjonen oanasin. 12010005 | - |
|------------------------------------|---|
| Select a stop to add               |   |
| 1                                  |   |
| Please enter 2 or more characters  |   |

2. Select the stop in the presented filtered list.

Select a stop to add						
st						
Bolstadstrandi : 355206	~					
+ Bolstadstrandi : 12355206						
Eimstad : 355516 + Eimstad : 12355515						
						+ Eimstad : 12355516
Oppheim, Vestbygdi : 355550						
+ Oppheim, Vestbygdi : 12355550	~					

3. Click on the green (+) add button to add the stop to the list.

1000		
	Eimstad : 355516 🔹	9

4. The stop will be added to the Stops list above the menu.

Eimstad : 355516	All lines included	9 🗓
Select a stop to add	T	•

Note: Always verify that the configured Header is relevant for the stops selected!

#### Remove a stop from the Stops list

To remove a stop, simply click on the corresponding remove (wastebasket) button. The Stop will be removed immediately.

Name	Lines	Add/Edit/Remove
Olav Kyrres gate A: 12010200	Includes lines 16,18,19,28,4	Ð. 🖉
Olav Kyrres gate C : 12010202	Excludes lines 15,16	Ð. 🗑
Olav Kyrres gate E : 12010204	Excludes lines 32E	Ð 🗑
<u> Vetås nord : 12604135</u>	All lines included	Ð 🗑
Liavegen : 11234	Excludes lines 200,320,36,37	Ð. 🖉
Mannsverk : 11446	Excludes lines 21,49	Ð. 🗑
Skarphaugen : 12012103	Excludes lines 25,49	Ð 🗑
Statoilstasjonen Sandsli : 12016689	Excludes lines 50E,55	Ð 👅
<u>Eimstad : 355516</u>	All lines included	9 E
Select a stop to add	<b>*</b>	0

#### Set (optional) Stop Note and Filter the line presentation for a stop

To only display forecasts/information for *particular lines* passing the stop, you can filter the presentation.

 Open the stop properties section by clicking on the edit button in the Add/Edit/Remove column. The section will expand below the Stops list, see below.

Click on the edit button for a stop included in the presentation to open/expand the corresponding properties section.

Statoilstasjonen Sandsli Select a stop to add	: 12016689		Excludes lines 50E,55	5 K 0
Properties for: Sta Stop Note Include Filter Lines	Selected	Lines 23 50E 54 55 99	Ii Include Filter: Check to include t selected lines below, <i>uncheck to</i> the selected lines below.	he exclude

- All passing lines are listed in the Lines section. Either check the "Include Filter" box and then check the lines you want the sign to present forecasts/info for or uncheck the "Include Filter" box and check the lines the sign is not to cover.
- 3. **Optionally enter a stop note**, that will be presented under the corresponding departure. A typical use for this is to inform passengers that the stop point is some distance from the sign, or has been temporarily moved to a non-obvious location, see the example below.



Stop Notes ("Departs from Target [The Square], 200m south.")

# 8.4 Vehicles/Signs

Under the Vehicles/Signs tab, individual vehicles or signs are set up and administered. (The tab is labelled Vehicles or Signs depending on partition content.)

# • Sub-tabs show vehicle system information (General), Performed system tests, logged report sheets (for pre-op/post-op checks, etc.), and fault history for the vehicle/sign.

Here, vehicles/signs can be added, removed, and have individual delivery and parameters set. Controls for generating installation packages and uploading the current vehicle system GUI or front sign are also available. For troubleshooting remote diagnostics functions are available. A History section presents a changelog with the possibility to revert to earlier settings (for when a new setting causes problems). A fault section shows all active faults. A link opens a separate fault history view with the last 100 fault status changes for the vehicle/sign.

- Individual vehicle/sign settings override fleet/category assigned deliveries and configurations.
- If possible, configure deliveries/resources and configuration collectively using the Fleet and Categories groupings. This will make updates easier to handle.

## 8.4.1 General Tab



#### Screen shot, continued from previous page...



## General

General				
Too many nodes, cropped to	1000 from 1422 use global search.	*	🗸 Tali Tales 🜠 11030 🔽 11587	
Name	3350-100001-prod		Active faults	Active faults (list), Faults last 7
Hardware Id	052013-15913070		Door signal	days: Link to separate fault
Display Name	Testrigg10001			history view, see following
Hardware	AIC4-26	~		section.
Fleet	f-2.5_Bergen_sentrum	~ 0		Filter to include/exclude
Category	c-skyss-sentrum	~ 0		"vehicle" faults (Tell Tale, J1939
Latest communication	2018-03-12 15:47:09		No faults last 7 days (Details)	J1587)
Last seen IP address	10.224.41.118			
System Address	3359010001			
Latest System Test	2021-09-06 13:33:07 Tests 12, Ok 3, Failed 0, Not Run 9, Not In Use 0 (Details)			
Deployment	Broken			
	Ignore In faults			
	✓ Ignore in statistics			Link: Fault History Tab
	Exclude from Its4mobility			Link ruler history rub
Deployment Note	Testrigg til Tone	ß		
Save Changes	Cancel Changes			

Header	Description
Search	Vehicle/Sign search/selection menu: Press the field to open the complete vehicle/sign list (for the selected partition), including eventual installation, and test "nodes".
	selection by clicking on an item in the list.
Name	The vehicle/sign is selected in the above menu. In Traffic Monitoring systems an operator-specific number is included in the name. The number of digits is defined in the operator/company configuration.
	Installation and test nodes have freely defined names.
Hardware Id	The vehicle/sign computer hardware ID number.
Display Name	A user-defined node/unit name (that can be as non-technical as the user wishes) is presented in various user interfaces, for instance, the Media Manager interface.
Hardware	Menu: Select vehicle/sign computer type (AIC3/4/Atom)
Fleet	What (if any) Fleet the vehicle/sign is assigned to.
Category	What (if any) Category the vehicle/sign is assigned to.
Latest communication	Timestamp showing when the vehicle/sign last communicated with the central system/CM.
Last seen IP address	Last registered IP address for the vehicle/sign.
System address	The unit system address.

Header	Description
Latest System Test	Latest System Test       2017-02-06 12:46:34 Tests 10, Ok 1, Failed 0, Not Run 9 (Details)         Deslowment       Deslowment         The time of the latest system test(s) performed on the vehicle, the number of tests performed, the number of OK tests, the number of failed tests (if any), and the number of system tests not yet run (if any).         Details, is a link to the separate System Test view, see the following section.
Deployment	Tic boxes for marking vehicles as broken and to leave the selected vehicle/sign out of the statistics in the CM overview and the daily status mail (useful for test/installation units). Decommissioned – this flag is checked if the vehicle is decommissioned. The Exclude from faults, statistics, ITS4mobility checkboxes will, when ticked. Keep the vehicle/sign "outside the corresponding parts of the system". "Excluded from its4mobility" units will not be visible in the Traffic Studio tools etc. A useful function for text units/vehicles that are not to "pollute" the system.
Deployment Note	Text field for adding notation about the particular node (vehicle/sign).

## Function, Tool Buttons



Top, Function Section	Description
New Vehicle/Sign	Generate new vehicle/sign.
Clone Vehicle/Sign	Copy all settings from the existing vehicle/sign into a new one.
Delete Vehicle/Sign	Delete selected vehicle/sign.

Click to decommission the vehicle (internal displays grouped with the vehicle system will also be decommissioned).         When a vehicle/sign is decommissioned, this will be highlighted in red in the General section, the decommissioned box will be checked and function buttons related to active vehicles will be deactivated.         Decommission       Image: the General section, the decommissioned box will be checked and function buttons related to active vehicles will be deactivated.         Decommission       Image: the General section, the decommissioned box will be checked and function buttons related to active vehicles will be deactivated.         Decommission       Image: the General section of the vehicle of the vehicle section section vehicles.         Diagnostics Card       Generates a diagnostics flashcard for the vehicle         Installation       Cards (link)         All installation cards       Link to a page with a list of all generated installation cards, and a simple list of zip files.         Request Version       Manual triggering of the vehicle check for updates - to synchronize changes as quickly as possible. (Normally, vehicles/signs check with the CM for updates every hour.)         Request Reboot       Send a request to the vehicle, telling the vehicle computer to reboot. (Normally, vehicle-depot sync, regardless if there is any change.         LIVE: Remote Diver Display (vehicles only)       Switchs to the LIVE tab, showing the vehicle with a remote-accessed driver GUI.         Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described		
Diagnostics CardGenerates a diagnostics flashcard for the vehicleInstallation CardGenerate a flashcard with present settings for manual installation in the vehicle.All installation cards (link)Link to a page with a list of all generated installation cards, and a simple list of zip files.ToolsManual triggering of the vehicle check for updates - to synchronize changes as quickly as possible. (Normally, vehicles/signs check with the CM for updates every hour.)Request Version CheckSend a request to the vehicle, telling the vehicle computer to reboot.Force SyncTrigger a vehcile-depot sync, regardless if there is any change.LIVE: Remote Diver Display (vehicles only)Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI.Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.	Decommission Vehicle/Sign	<text><text><form></form></text></text>
Installation CardGenerate a flashcard with present settings for manual installation in the vehicle.All installation cards (link)Link to a page with a list of all generated installation cards, and a simple list of zip files.ToolsManual triggering of the vehicle check for updates - to 	Diagnostics Card	Generates a diagnostics flashcard for the vehicle
All installation cards (link)Link to a page with a list of all generated installation cards, and a simple list of zip files.ToolsRequest Version CheckManual triggering of the vehicle check for updates - to synchronize changes as quickly as possible. (Normally, vehicles/signs check with the CM for updates every hour.)Request RebootSend a request to the vehicle, telling the vehicle computer to reboot.Force SyncTrigger a vehcile-depot sync, regardless if there is any change.LIVE: Remote Diver Display (vehicles only)Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI. Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.	Installation Card	Generate a flashcard with present settings for manual installation in the vehicle.
ToolsRequest Version CheckManual triggering of the vehicle check for updates - to synchronize changes as quickly as possible. (Normally, vehicles/signs check with the CM for updates every hour.)Request RebootSend a request to the vehicle, telling the vehicle computer to reboot.Force SyncTrigger a vehcile-depot sync, regardless if there is any change.LIVE: Remote Diver Display (vehicles only)Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI. Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.	All installation cards (link)	Link to a page with a list of all generated installation cards, and a simple list of zip files.
Request Version CheckManual triggering of the vehicle check for updates - to synchronize changes as quickly as possible. (Normally, vehicles/signs check with the CM for updates every hour.)Request RebootSend a request to the vehicle, telling the vehicle computer to reboot.Force SyncTrigger a vehcile-depot sync, regardless if there is any change.LIVE: Remote Diver Display (vehicles only)Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI. Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.	Tools	
Request RebootSend a request to the vehicle, telling the vehicle computer to reboot.Force SyncTrigger a vehcile-depot sync, regardless if there is any change.LIVE: Remote Diver Display (vehicles only)Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI. Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.	Request Version Check	Manual triggering of the vehicle check for updates - to synchronize changes as quickly as possible. (Normally, vehicles/signs check with the CM for updates every hour.)
Force SyncTrigger a vehcile-depot sync, regardless if there is any change.LIVE: Remote Diver Display (vehicles only)Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI.Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.	Request Reboot	Send a request to the vehicle, telling the vehicle computer to reboot.
LIVE: Remote Diver Display (vehicles only)Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI.Note: Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.	Force Sync	Trigger a vehcile-depot sync, regardless if there is any change.
	LIVE: Remote Diver Display (vehicles only)	Switches to the LIVE tab, showing the vehicle with a remote- accessed driver GUI. <b>Note:</b> Current browsers do not support Flash. This function requires a browser that supports Flash. Use the link described below instead if you use a modern, updated browser.



#### Мар

Shows the last known position. Use the Google Maps link for driving directions to that position.



#### Screenshots

н.	- Screenshot	e								
L	Debug	Destination Class	Descent	D2	D2	D 4	Andreid	Mar da	Und	
L	Driver	Destination Sign	Passenger 1	Passenger 2	Passenger 3	Passenger 4	Android	Madt	Hua	

Screenshots	
Driver	Upload a screenshot of the <b>driver user interface</b> , not including the front sign image.
Destination Sign	Upload a screenshot of the front sign (the same image of the sign normally presented in the driver user interface)
Passenger 1/2/3 etc.	Upload a screenshot of the interior passenger display image. One button for each configured display.
Android	Upload a screenshot from Android unit.

Madt (optional)	Upload a screenshot from the [Cosat] Android MADT.
Display/LED Display (signs only)	Upload a screenshot of the current screen image.
HUD	Upload a screenshot from the HUD

## DISCO Settings (Signs Only)

For signs, you will find an extra section below the function buttons called "DISCO Settings". This section shows the settings and configured presentation for the sign, mirroring the information on the Signs sub-tab, **see chapter 8.3 for a description**.

- An Edit Configuration button opens the Disco Settings view for the sign, where you can edit all settings, see chapter 8.3.
- Click on the Delete button in this section to delete the current sign settings and presentation configuration.

Disco Settings		
Edit Configuration Del	ete	
Header	MX4-192_168_2_73	
Description	MX4-192_168_2_73	
Comment	asdasd	
Forecast duration	01:00:00	
Server	i4mTest5	
Uri	mr://3000021042	
Status	Production,Logging on,Departure Time	
Stops	Name	Lines
	Olav Kyrres gate A: 12010200	Includes lines 16,18,19,28,4
	Olav Kyrres gate C: 12010202	Excludes lines 15,16
	Olav Kyrres gate E: 12010204	Excludes lines 32E
	Vetås nord : 12604135	All lines included
	Liavegen : 11234	Excludes lines 200,320,36,37
	Mannsverk : 11446	Excludes lines 21,49
	Skarphaugen : 12012103	Excludes lines 25,49
	Ctatellatagianan Candali + 1201000	Evolution lines EOE EE

**Note:** Signs also have an extra button in the tool section available: **Open Disco Server Configuration Tool,** see image below. This button will open the **Display Manager** tool (see separate Manual), for comprehensive display configuration.

	Tools Request Version Check Request Reboot Oren DISCO Server Configuration Tool	
🝯 Tmix.Cap.Disco.Ria.Con	figuration - Internet Explorer	- 0
Edit		
Title		
Status		
Nodename		
219900-9995-edward-d	esktop	
Description		
Comment		
Un		
Server		
Roland-Test -		
Fault management		
E Logging		
Forecast duration		
01:00 🕏 🕓		
Stops		
(A) (Partille] 1		
0000		

## **Communication Status**

Click on "Communication Status" to expand the section and view communication details for the individual vehicle/sign (the same information is available in the communication view on the overview page).

#### • The section includes explanation texts.

Communication Status		
<u>oominidiileation otatas</u>		
Last Communication:	2018-03-12 15:52:36	Time of last communication (any type) with depot server.
Last Successful Download:	2018-03-12 14:50:14	Time of last successful download.
Node Version Request:	2018-03-12 15:52:29	Time of last 'Node Version Server' request (NVS).
Download:	2018-03-12 14:50:14	Time of last download try.
Upload:	2018-03-12 15:52:36 *	Time of last upload try.
Realtime:		Time of last realtime report.

## Metadata (Consat Troubleshooting Functionality)

This section is not for public use.

#### Delivery

l	Delivery	
l	Assigned:	i4m_vehicle_agent-MX4-linux-26 16.3.0p31 (from category c-skyss)
l	Customisation:	its4mobility/large/core/norway/skyss (from category c-skyss)
l	Status:	active
l	Currently Active:	(same as assigned)
	Assign node specif Search	c delivery:

Label	Description
Assigned	Name of the assigned delivery/software, if the delivery comes from a category this is presented between brackets.
Customization	Customer-specific configuration set. If the customization comes from a category this is presented between brackets.
Status	Status for assigned delivery. Colour-coded – see Overview, page 16
Currently Active	Active delivery/software, if the same as assigned the text "same as assigned" is displayed.
Assign node- specific delivery (menu)	Assign delivery/software for the selected vehicle/sign. Optionally enter numbers/letters to quickly filter the list and make your selection by clicking on an item. Click on the Change Delivery button to assign the selected delivery.

## Resources

Resources	
Assigned:	2013-02-08 10:55:24
Status:	active
Currently Active:	(same as assigned)

Label	Description
Assigned	The timestamp for assigned resources.
Status	Status for assigned resources. Colour-coded – see Overview, page 16
Currently Active	Active resources. If the same as assigned the text "same as assigned" is displayed.

## Configuration

Configuration	
Assigned:	2013-02-05 08:42:42
Status:	active
Currently Active:	(same as assigned)

Label	Description
Assigned	The timestamp for the assigned configuration.
Status	Status for assigned configuration. Colour-coded – see Overview, page 16

Label	Description
Currently Active	Active configuration. If the same as assigned the text "same as assigned" is displayed.

#### Parameter Group Membership

Parameter Group Membership				
Last Modified	Add/Remove			
-	3			
-	3			
Ŧ	9			
I	I			
	Last Modified - - v			

In this section, you can apply/remove parameter groups to the selected vehicle/sign. The timestamp for the last change is displayed for every individual parameter group. The menu for applying parameter groups is searchable (enter content to filter the menu).

See the Parameter Group section, page 104.

#### **Connected Resources**

Name	Resource Type	Last Modified	
audio destinations skyss w c10q7 20130301	audio_destinations	2013-03-01 15:36:50Z	
audio lines skyss c10q7 20130301	audio_lines	2013-03-01 14:46:47Z	
announcement	announcement	2016-03-15 09:32:51Z	
stop_pointsinspillt_uw_c10q7_20130411	audio_stops	2013-04-11 22:53:55Z	
audio misc skyss w c10q7 20130410	audio_misc	2013-04-10 16:54:09Z	
BIB 20130515 144125	bib	2013-05-17 09:21:46Z	
vdi-company-33-driverdb	driverdb	2014-03-05 16:55:55Z	
vdi-company-33-zonedb	zonedb	2014-05-21 18:22:44Z	
Search	*		6

Under Connected resources all resources used by the vehicle/sign are listed, both resources added to the particular node and resources that "come with" the fleet the vehicle/sign belongs to. You can add resources to the particular vehicle/sign (node) by selecting the resource in the menu (type to filter the opened menu) and clicking on the green "+" symbol button to the right.

You can remove resources that are node-specific with the trash bin symbol on the corresponding row. Of course, you cannot remove listed resources belonging to the fleet. (Those are administered on the Fleet tab.)

#### **Connected Shared Resources**

Shared Resources are resources that contain selected files used by the vehicle/sign. In this section, the shared resources are listed (only information, no editing).

1	Connected S	Shared Resources	
l	Name	Entries	Last Modified
	<u>vdi-</u> <u>company-</u> <u>op-skyss-</u> <u>zonedb</u>	3894.xml 4144.xml 3691.xml 4039.xml 4357.xml 4009.xml 4408.xml 3971.xml 3969.xml 3874.xml 4411.xml 4149.xml 4014.xml 3967.xml 4197.xml 3924.xml 4221.xml 4154.xml 4124.xml 4104.xml 3686.xml 3944.xml 4376.xml 4139.xml 4316.yml 3889.yml 3839.yml 4307.yml 3839.yml 4369.yml 3899.yml 4360.yml 4170.yml 4094.yml 3692.yml 4064.yml	2020-03- 04 12:36:46Z

```
Vehicle Parameters

Farameter: systemAddress

Component: net.volvo.vms.services.mr

Instance:

systemAddress = 2143214100

Parameter: defaultExternalVolumeLevels

Component: net.volvo.vms.services.audiomanager

Instance:

defaultExternalVolumeLevels.min = 0

defaultExternalVolumeLevels.default = 60

Parameter: defaultInternalVolumeLevels

Component: net.volvo.vms.services.audiomanager

Instance:

defaultInternalVolumeLevels.min = 0

defaultInternalVolumeLevels.max = asjhföaoshf

defaultInternalVolumeLevels.default = 60
```

The Vehicle Parameters section lists all parameters set for the selected vehicle/sign.

#### **Edit Parameters**



In this section, all parameters can be checked and edited in XML format.

# • Whenever possible, do parameter changes at the category level and not per individual vehicle/sign.

To see or edit a parameter, first, select the basic function in the Function Menu, then the individual parameter in the Parameter Menu, the XML sections will show the data for the selected parameter. The Schema section includes (.xsd) explanations of the parameter.

The parameter XML code can be edited in the bottom XML Component section. The Validate and Update buttons are used for first validating the XML code and updating the parameter. The Reset button will return a changed XML parameter to the default setting (the one shown in the Default XML component section).

#### Diagnostics

The Diagnostics functions allow remote diagnostics to be performed on individual vehicle/sign systems. You simply "order" the required files from the vehicle or sign system. The ordered files are then uploaded to the CM and can, normally, be analysed after a few minutes if the version request is triggered manually (using the Request Version Check button).

The Diagnostics section is divided into two parts, an upper log section, and a lower request section. Prior Diagnostics requests are listed in the upper section, including descriptions.

• Note: The diagnostics log can be used as a simple (partial) problem log for the vehicle/sign.

#### **Diagnostics Log**

If users have requested diagnostic files from the vehicle/sign system, these are listed with status, timestamp, and description. If needed, rows can be deleted in the log by clicking on the trash bin to the right of the corresponding row.

Diagnostics			
Status	Time	Description	
UPLOADED	11/7/2012 9:36:54 AM	Förare hävdar	8
UPLOADED	9/28/2012 1:56:23 PM	igen	3
UPLOADED	9/28/2012 1:53:53 PM	Dubbel avgång kl 12	1
UPLOADED	9/21/2012 3:17:17 PM	testar 12.13	3
Showing 4 of 4	request(s).		

## **Request Options**

- Diagnostics	
Start date	
≤ March 2025 ≥	Colondary Solos
Mon Tue Wed Thu Fri Sat Sun	Calendar. Selec
<u>24 25 26 27 28 1 2</u>	Start date
3 4 5 6 7 8 9	
<u>10 11 12 13 14 5 16</u>	
<u>17 18 19 20 21 22 23</u>	
24 25 20 27 28 29 30	
21 1 2 2 4 2 0	
No diagnostics requests yet	
Request Options:	
Log files	
Config	
Dst data	
Sign image	
Screen dump	
Rcounters	
Reboot	
Var disk	
Route logs	
Can frames	
Can state	
Camera snapshot	
APC logs	
Camera diagnostics	
Request Description:	
	Cancel Send Request

Request options	Description
Log Files	Troubleshooting logs (for Consat Telematics support personnel).
Config	Complete vehicle system configuration settings.
Dst data	Volvo-specific function.
Sign Image	Image file showing the front sign. Time-stamped.
Screen Dump	Image file showing the driver user interface. Time-stamped.
Rc counters	Statistics counters (Consat troubleshooting functionality).
Reboot	Request a vehicle/sign system reboot. Normally performed after file upload. (If this is the only box ticked this provides a remote reboot function.)
Var disk	Upload the whole Var disc, including all log files.
Route logs	Route log files for automatic route measurement (Internal Consat troubleshooting function).
CAN frames	All CAN Frames logged during a pre-configured period.
Can state	CAN bus statistics.
Camera snapshot	Snapshop from a connected camera (camera depending on specific vehicle solution)
APC Logs	Current APC counter status/log
Camera Diagnostics	Diagnostic files from the vehicle CCTV cameras.

- 1. Select the diagnostics files you want to upload from the vehicle/sign by ticking the appropriate box. Note: There are a few advanced diagnostics functions not listed below but these are normally not used by customers.
- 2. Enter a short problem description in the Request Description field.
- 3. Click on the Send Request button.
- 4. The request will normally be processed at the next periodic node version request. To speed up things a manual Node Version Request can be triggered by clicking on the Node Version Request button.
- 5. When the requested file (-s) has been uploaded this will be shown in the list with the status text UPLOADED.
- After Requesting a log Diagnostic file, contact Consat Telematics support. The Support department will have access to the uploaded file (-s) so you do not have to mail them separately.

The zipped diagnostics files can be saved by right-clicking on the selected list row and saving at an appropriate location. The uploaded files can also be deleted by clicking on the respective litter box at the extreme right of the list.

#### History: View or Revert to Earlier Version

Expand the History section to see a log covering all changes, including time stamps and the user that initiated the change/upgrade. Click on the Time or Changed By cells to see all settings in a separate XML window.

The log also includes a Revert function. By clicking on the Revert button for the previous version you can easily "undo" a change that has caused problems. The system will check the older version before the change. **A confirm dialogue prevents mistakes** (see below).

Time	Changed by	
2020-03-04 12:36:46	vdi	Current Version
2020-03-02 18:49:38	<u>vdi</u>	Revert
2019-12-03 18:13:59	vdi	Revert
2019-12-03 17:14:04	vdi	Revert
2019-12-03 16:14:28	vdi	Revert
2019-12-03 15:14:36	vdi	Revert
2019-12-03 12:57:45	vdi	Revert
2019-11-27 13:55:19	<u>vdi</u>	Revert
2019-11-27 12:16:27	vdi	Revert
2019-11-27 11:34:14	vdi	Revert
<u>2019-11-22 11:24:27</u>	vdi	Revert
<u>2019-11-21 17:55:11</u>	vdi	Revert
<u>2019-11-21 16:40:52</u>	vdi	Revert
<u>2019-11-21 10:24:19</u>	vdi	Revert
2019-11-07 10:06:24	vdi	Revert
2019-10-31 12:29:39	vdi	Revert
<u>2019-10-18 12:02:19</u>	vdi	Revert
<u>2019-10-02 16:22:21</u>	vdi	Revert
2019-07-23 19:08:09	vdi	Revert
2019-04-08 15:50:13	vdi	Revert
2019-04-08 11:22:21	vdi	Revert
<u>2019-04-03 18:41:01</u>	vdi	Revert
2019-04-03 16:41:20	vdi	Revert
2019-04-03 13:30:28	vdi	Revert
2019-04-03 09:47:46	vdi	Revert
2019-04-02 19:43:20	vdi	Revert
2019-04-02 13:55:05	vdi	Revert
2019-04-01 18:54:43	vdi	Revert
2019-04-01 17:54:48	vdi	Revert
2019-03-29 16:54:47	vdi	Revert

<del></del>			L	
2019-11-21 10:24:19	<u>vdi</u>		_	evert
2019-11-07 10:06:24	<u>vdi</u>	Message from webpage	×	Revert
2019-10-31 12:29:39	<u>vdi</u>			Revert
2019-10-18 12:02:19	vdi	Do you want to revert to this very on the service of the servic	n? [	Revert
2019-10-02 16:22:21	<u>vdi</u>		[	Revert
2019-07-23 19:08:09	<u>vdi</u>	OK Canre		Revert
2019-04-08 15:50:13	<u>vdi</u>			Revert
2010 04 08 11-22-21	veli		[	Dovort

#### Add a Vehicle/Sign

- 1. Choose partition (company/operator) in the Partition Menu.
- 2. Click on **New vehicle**. The interface will change and only the top fields will be active. The Company/operator name is added before the vehicle/sign name comes from the chosen partition.
- 3. Enter the Vehicle/Sign ID.
- 4. For Signs, enter Hardware ID. For vehicles: Do not enter the Hardware-ID; it is automatically entered at the commissioning.
- 5. Make no selection in the Hardware menu. The vehicle/sign computer type is automatically selected at the commissioning.
- 6. If applicable, select Category and Fleet membership. It is possible to create an "empty" vehicle/sign but delivery, resources, and configuration is best handled by using the Category end Fleet groupings.
- 7. Click on **Add Vehicle (/Sign)** to save the new vehicle/sign the Add Vehicle button was activated to the left of the New Vehicle button when this was clicked in step 2.

#### Clone a Vehicle/Sign

- 1. Choose partition (company/operator) in the Partition Menu.
- 2. Select the vehicle/sign you want to clone in the Name menu in the General section.
- 3. Click on **Clone vehicle/sign**. The interface will change. Only a name field and a hardware ID field will be active. The cloned vehicle's name will be presented with the addition of the text "-clone".
- 4. Change the name if needed.
- 5. Normally, the Hardware ID is entered automatically at the initial commissioning but if needed. It can be entered manually in the designated field.
- 6. Click on Add vehicle/sign to save the new vehicle.

#### Delete a Vehicle/Sign

- Note: This action cannot be undone by users, only by Consat Support!
  - 1. Select the vehicle/sign in the Name menu.
  - 2. Click on Delete Vehicle.
  - 3. The Confirm deletion dialogue is presented. Click on OK to confirm.

#### Edit (change) Fleet/Category Membership for a Vehicle/Sign

- 1. Select the vehicle/sign in the Name menu.
- 2. Change Fleet/Category in the corresponding menu.
- 3. Click on Save Changes

#### Generate a General Installation Package

Installation packages can be generated either here or under the separate Installation tab (see chapter 8.5). The procedure is the same even if the control layout differs a little.

- When you want to generate a general installation package, use one of the specially configured installation nodes provided by Consat. These will be pre-configured for specific hardware, Fleet, and Category membership.
  - 1. Select the correct installation node using the top Search menu. There are separate installation nodes for each hardware type, all beginning with "installation" followed by the hardware name.

	installation	*
lame	installation	
i i i i i i i i i i i i i i i i i i i	sign-installation -template	
lardware Id		
landware	4104.26	

2. Select Hardware type in the Hardware menu (if you forget to select hardware and click on Generate Installation immediately, the Hardware field will be highlighted as a reminder that this information is needed before the Package can be generated, see image below).

I	Hardware	$\checkmark$
1		

3. Click on Save Changes to save your hardware selection.

Í	Save Changes	Cancel Cha
ŀ	You have unsave	d changes

4. Click on the **Generate Installation** button (Hardware type has to be selected, and saved, for the button to be active).



The status message "Generating installation, please wait..." in blue text is shown above the General section. The generation may take a few minutes.

Generating installation, please wait	
General	
Soarch	_

5. When the status message **"Installation for [vehicle/sign name] done. Download here: Installation**" is shown in green text, you can right-click on the link to save the file on your desktop or chosen folder.

Installation for <del>finstallatio</del> Download here <mark>: Installati</mark>	n' done on
Or browser them all here General	: All installations
	Search

6. Unpack the compressed zip file with the installation package directly onto a flashcard. The card is now ready for installation.

#### Generate a Vehicle/Sign Specific Installation Package

Vehicle/sign-specific installation packages are useful when you want to create a package for a vehicle with a special configuration.

1. Select the vehicle/sign you want to generate an installation package for, using the top Search menu.

Tip: Type to quickly filter the opened menu to find a particular item.

General		
	Search	
Name	3350-228226	
Hardware Id	3350-228227	
Hardware	3350-228228	
Fleet	3350-228229	•

- Make sure that the Hardware ID is correct (see unit computer label) a specific installation package will only work with the specified Hardware ID.
  - 1. Make sure the hardware type is correct if needed, select the correct type of hardware in the hardware menu.

Hardware Id		
Hardware		
Fleet	AIC3	•
Category	ATOM	9
	c	

- 2. If you have made changes this will be indicated with blue information text: "You have unsaved changes". Click on **Save Changes**.
- Click on the Installation Card button. The status message "Generating installation, please wait..." in blue text is shown above the General section. The generation may take a few minutes.
- 4. When the status message **"Installation for [vehicle/sign name] done. Download here: Installation**" is shown in green text, you can right-click on the link to save the file on your desktop or chosen folder.



5. Unpack the compressed zip file with the installation package directly onto a flashcard. The card is now ready for installation in the selected vehicle.

#### Generate an Installation Package for a Vehicle Computer Replacement Unit

When you need to make a vehicle-specific installation package for a vehicle that is to have its vehicle computer replaced, you have to delete the Hardware ID, as this is the ID of the presently installed computer and will not be accepted by the replacement unit:

- 1. Select the vehicle/sign you want to generate an installation package for, using the top Search menu.
- 2. Delete the content of the **Hardware ID** field. (The new hardware will have a different ID. This will be updated in the CM during the initial provisioning process as part of the

#### installation.)

- 3. Select the new Hardware type in the **Hardware** menu.
- 4. Click on Save Changes
- Click on the Installation Card button. The status message "Generating installation, please wait..." in blue text is shown above the General section. The generation may take a few minutes.
- 6. When the status message **"Installation for [vehicle/sign name] done. Download here: Installation**" is shown in green text, you can right-click on the link to save the file on your desktop or chosen folder.
- 7. Unpack the compressed zip file with the installation package directly onto a flashcard. The card is now ready for installation in the selected vehicle.

#### Browse all Generated Installation Packages

To list all files generated from the selected partition, click on the **All Installation Cards** link. After an installation package has been generated the same list can be accessed through the "Or browse them all here: All installations"

Installation Card	All installation cards
Installation for 'installat	ion' done
Bonnodd Herer Installa	
Or browser them all her General	e: All installations

#### Generate an On-Board Diagnostics card

Whenever remote diagnostics for some reason cannot be performed, vehicle system diagnostics files can be retrieved by inserting a specially prepared diagnostics flashcard/USB drive into the vehicle computer. The diagnostics files will then be copied to the card/USB stick for troubleshooting.

The **Get Diag Card** button lets you quickly and easily generate the necessary files, as a compressed zip file. The file is then unzipped to the card/stick you want to use.

1. Although diagnostics cards are not vehicle/sign-specific, they need to be adapted to the unit software version. Just to make sure the diagnostics card will work with the vehicle/sign you need to troubleshoot, first select this in the General section.

	Search	*
	Jean	*
Name	3350-100001-testrig1	

2. Now press the **Diagnostics Card** button to generate the zipped card file.

э	Diagnostics Card	In
---	------------------	----

3. A status message is shown during the generation process:

Generating diag card, plo Please unzip to a USB/CI General	enerating diag card, please wait ease unzip to a USB/CF card and insert in the vehicle computer eneral				
	Search	Ŧ			
Name	3350-100001-testrig1				

4. As stated in the message, when the generation has finished, unzip the file to the USB stick/Flash card (CF or SD depending on the computer).

## 8.4.2 System Test Tab

On the System Tests tab, detailed information about the latest system tests is available. This view also lists historical system tests (up to 200 tests presented).

• Note: You can also access the system tests tab from the General tab Details link, see below.

System Address	3350210048
Latest System Test	2017-12-21 12:22:55 Tests 12, Ok 4, Failed 0, Not Run 8 ( <u>Details</u> )
	Broken

Lides System Tests           The set Signs           The set Signs         OK         2017-1221 112255           Call the set Signs         OK         2017-1221 1122155           Call the set Signs         OK         2017-1221 115314         Depot Sync Test         The latest performed tests of each type - o particular vehicle, inc           GPRS         OK         2017-1221 115314         Depot Sync Test         Detection         Central connection         OK         2017-1221 115300         Passenger TFI display         Net stop button         Net stop button         Vet Ram         -         Passenger TFI display         Stop button         Vet Ram         -         Stop button         Vet Ram         -         Stop button         -         Stop button         1         Stop button         -         -         -         Stop button         -         -         -         -         -         -         - <th>system 1 the uding 55.</th>	system 1 the uding 55.
Latest Test         Time of Run           Modem         Ok         2017.1221 152.4           Signs         Ok         2017.1221 152.4           GP         Ok         2017.1221 153.14           Depot Sync Test         Mod Run         -           GPS         Ok         2017.1221 153.14           Depot Sync Test         Mod Run         -           Central connection         Ok         2017.1221 153.00           Passenger TFT display         Med Run         -           Door         Med Run         -           Audio int.         Med Run         -           112:02.2         Inter         Filter         Filter           2017.12.21         Signs         Ok         2017.12.21           12:22.25         Modem         Ok         2017.12.21           2017.12.21         C3         Not Run         -     <	system 1 the uding 05.
Test Name         Result         Time of Run           Modem         0k         2017-12211524           Signs         0k         2017-1221122155           C3         1148 Rn         -           GPS         0k         2017-1221122155           C3         1148 Rn         -           GPS         0k         2017-1221115314           Depot Sync Test         Net Rn         -           GPRS         Net Rn         -           Central connection         0k         2017-1221115310           Door         Net Rn         -           Net stop button         Net Rn         -           Audio int.         Net Rn         -           Audio int.         Net Rn         -           History         1-12 / 12         1-12 / 12           Report Time * Test Name         Result Code         Last Run         Editor           1152.54         1152.54         rest result: CAR         Signs or C, CSQ (17.54)Test           2017-12.21         Test result: CAR         2017-12.21         Test result: CAR           1222.55         Signs         0k         2017-12.21           1222.55         Signs         0k         2017-12.21 <td>system n the uding bs.</td>	system n the uding bs.
Modem         Ok         2017-1221 1254           Signs         Ok         2017-1221 1255           C3         NR Run         -           GPS         Ok         2017-1221 1254           Depot Sync Test         Not Run         -           GPRS         Not Run         -           Central connection         Ok         2017-1221 15300           Passenger TFT display         Not Run         -           Door         Net Run         -           Audio int.         Not Run         -           Audio int.         Not Run         -           Audio int.         Not Run         -           History         1-12/12         1-12/12           Report Time          Test Name         Result Code         Last Run         Effer           2017-12.21         Modem         Ok         2017-12.21         Test result: ERROREStarting test at: 2017-12.21 11:52:54Last           2017-12.21         Modem         Ok         2017-12.21         Test result: ERROREStarting test at: 2017-12.21 11:52:54Last           2017-12.21         Signs         Ok         2017-12.21         Test result: ERROREStarting test at: 2017-12.21 11:52:54Last           2017-12.21         Signs         Ok         20	system n the uding bs.
Signs         OK         2017-12-21         The latest performed test of each type - 0           GPS         OK         2017-12-21         The latest performed test of each type - 0           Opport Sync Test         NoR Run         -         -           Central connection         Ok         2017-12-21         1153.00           Passenger IFT display         NoR Run         -         -           Door         Next stop button         NoR Run         -         -           Audio ext.         NoR Run         -         -         -           History         -         -         -         -         -           History         -         -         -         -         -         -           112/12-21         Iter         Filter         -         -         -         -         -           112/255         Signs         Ok         2017-12-21         Test result: ERROREStarting test at: 2017-12-21 11:52:54Last successful AT probe to modem 0 seconds ago: OK, CSQ (17,54)Test result: OK         -         System test history (test per row)           2017-12-21         Ites: Name         -         -         -         -         -           2017-12-21         GPS         OK         2017-12-21         Tes	system n the uding os.
GPS         Ok         2017-12-21 1153.14         tests of each type - o particular vehicle, inc oparticular vehicle, inc oparticular vehicle, inc oparticular vehicle, inc oparticular vehicle, inc oparticular vehicle, inc results and time stam           Central connection         0 k         2017-12-21 1153.00         passenger passenger Net Stop Door         passenger Net Stop Net S	n the uding os.
Depot Sync Test       Net Run       -         GPRS       Net Run       -         Central connection       Ok       2017-12211153:00         Passenger FFT display       Net Run       -         Door       Net Run       -         Next stop button       Net Run       -         Audio ext.       Net Run       -         History       -       -         Terms per page       40       -         1-122/12       Feer result Code       Last Run       Log         Filter       Filter       Filter       Filter         2017-12.21       Signs       Ok       2017-12.21       Test result: ERROREStarting test at: 2017-12.21 11:52:54Last sresult: OK         2017-12.21       Signs       Ok       2017-12.21       Test result: ERROREStarting test at: 2017-12.21 11:52:54Last sresult: OK         2017-12.21       Signs       Ok       2017-12.21       Mobilec Segment / RS485Viatex / RS232Test result: OK         2017-12.21       122:255       Signs       Ok       2017-12.21         122:255       C3       Not Run       -         2017-12.21       Lognting for position dataPosition data received.Test result: OK       System test history (test pre row)         2017-12.21	uding os.
GPRS       Net Ran       -         Central connection       OK       2017-12-21 1:53.00         Passenger TFT display       Net Ran       -         Door       Net Ran       -         Next stop button       Net Ran       -         Audio int.       Net Ran       -         Audio int.       Net Ran       -         Audio ext.       Net Ran       -         History       -       -         History       -       -         1-12/12       filter       filter       filter         2017-12-21       filter       filter       filter         2017-12-21       Signs       OK       2017-12-21         1222255       Signs       OK       2017-12-21         2017-12-21       Signs       OK       2017-12-21         1222255       C3       Not Run       -         2017-12-21       GPRS       OK       2017-12-21         1222-25       Signs       OK       2017-12-21         1222-25       C3       Not Run       -         2017-12-21       Logn       Call T	os.
Central connection         OK         201/322115300           Passenger FFT display         Not Ran         -           Door         Not Ran         -           Next stop button         Not Ran         -           Audio ext.         Not Ran         -           Audio int.         Not Ran         -           Audio ext.         Not Ran         -           History         -         -           History         1-12 / 12           Report Time         Titler         Titler           Titler         Test result: CROREStarting test at 2017-12-21 1152.54Last         successful AT probe to modem 0 seconds ago. OK, CSQ (17,54)Test           2017-12-21         Nodem         Ok         2017-12-21         Test result: CROREStarting test at 2017-12-21 1152.54Last           2017-12-21         1152.54         Test result: CROREStarting test at 2017-12-21 1152.54Last         successful AT probe to modem 0 seconds ago. OK, CSQ (17,54)Test           2017-12-21         Quitor 12-21         Test result: CROREStarting test at 2017-12-21 1152.54Last         System test history (           2017-12-21         Cars         Quitor 12-21         Test result: OK         System test history (           2017-12-21         Depot Sync Test         Not Run         -          <	
Door         Net Ran         .           Door         Net Stop button         Net Ran         .           Net stop button         Net Ran         .         .           Audio int.         Net Ran         .         .           Audio int.         Net Ran         .         .           Audio ext.         Net Ran         .         .           History         .         .         .           Items per page 40         .         .         .           Pilter         filter         filter         filter         filter           2017.12.21         Nodem         Ok         2017.12.21         Test result: CK         Successful AT probe to modem 0 seconds ago: OK, CSQ (17.54)Test           120.255         Signs         Ok         2017.12.21         Test result: OK         .           2017.12.21         C3         Not Run         -         .         .         .           2017.12.21         GPS         Ok         2017.12.21         Waiting for position dataPosition data received.Test result: OK         .         .           2017.12.21         Depot Sync Test         Not Run         .         .         .           2017.12.21         GPS	
Next stop button         Ner Ran            Audio int.         Nor Ran            Audio int.         Nor Ran            Audio st.         Nor Ran            History             Items per page         40            Piter         Filter         Filter           2017-12-21         Report Time v         Test Rame         Result Code           2017-12-21         Filter         Filter         Filter         Filter           2017-12-21         Inspect probe to modem 0 seconds ago: OK, CSQ (17,54)Test result: OK         System test history (122155)           2017-12-21         1152:54         Modem         Ok         2017-12-21           1222:55         G3         Not Run         -         System test history (12215)           2017-12-21         Depot Sync Test         Not Run         -         System test per row)           2017-12-21         Depot Sync Test         Not Run         -         -           2017-12-21         Depot Sync Test         Not Run         -         -           2017-12-21         Depot Sync Test         Not Run         -         -           2017-12-21 <td></td>	
Audio int.         Not Run         .           Audio ext.         Not Run         .           History         1-12/12           Report Time         Test Name         Result Code         Las Run         Log           Inter         Filter         Filter         Filter         Filter           2017-12-21         Nodem         Ok         2017-12-21         Test result: CoK         System test history (test parts)           2017-12-21         Signs         Ok         2017-12-21         Test result: OK         System test history (test parts)           2017-12-21         Signs         Ok         2017-12-21         Mobilec Segment / RS485Viatex / RS232Test result: OK         System test history (test per row)           2017-12-21         GPS         Ok         2017-12-21         Waiting for position dataPosition data received. Test result: OK         System test history (test per row)           2017-12-21         GPRS         Not Run         -         System test per row)         The table can be filte and sorted by any co           2017-12-21         GPRS         Not Run         -         Test per row)Connection to host 10.224.9.132(Depot server)Connection	
Audio ext.         Net Ran           History	
History tems per page         Test Name         Result Code         Last Run         Log           Report Time ×         Test Name         Result Code         Last Run         Log           112/212         Filter         Filter         Filter         Filter           2017-12-21         Signs         Ok         2017-12-21         Test result: CK         Social Stating test at: 2017-12-21 11:52:54Last sresult: OK           2017-12-21         Signs         Ok         2017-12-21         Test result: OK         System test history (test per row)           2017-12-21         C3         Not Run         -         System test history (test per row)         System test per row)           2017-12-21         Depot Sync Test         Not Run         -         The table can be filter and sorted by any control to host 10:224.9.132(Depot server)Connection t	
Nativity         1-12/12           Items prage 40         1-12/12           Report Time *         Test Name         Result Code         Last Run         Log           Filter         Filter         Filter         Filter         Filter         Filter           2017-12-21         Report Time *         Filter         Filter         Filter         Filter           2017-12-21         Report 2017-12-21         Test result: CRROREStarting test at 2017-12-21 11 52:54Last sresult: OK         System test history (12/2)           2017-12-21         Report 2017-12-21         Mobilec Segment / RS485Viatex / RS232Test result: OK         System test history (12/2)           2017-12-21         C3         Not Run         -         System test history (12/2)           2017-12-21         GPS         Ok         2017-12-21         Waiting for position dataPosition data received Test result: OK         System test history (12/2)           2017-12-21         Depot Sync Test         Not Run         -         System test history (12/2)           2017-12-21         Depot Sync Test         Not Run         -         The table can be filte and sorted by any control of the system control of the control of the contrelin 0.0 k         2017-12-21         Central <td></td>	
Report Time v         Test Name         Result Code         Last Run         Log           filter         filter.	
Filter         Filter <t< td=""><td></td></t<>	
2017.12.21 1222.55         Modem         Ok         2017.12.21 11.52.54         Test result: ERROREStarting test at: 2017.12.21 11.52.54Last successful AT probe to modem 0 seconds ago: OK, CSQ (17,54)Test result: OK         System         Sy	
2017.12-21 1222.55         Signs         Ok         2017.12-21 1221.55         Mobile: Segment / RS485Viatex / RS232Test result: OK           2017.12-21 1222.55         C3         Not Run         -         System test history ( 2017.12-21 1222.55           2017.12-21 1222.55         GPS         Ok         2017.12-21 1153.14         Waiting for position dataPosition data received.Test result: OK           2017.12-21 1222.55         Depot Sync Test         Not Run         -         The table can be filter and sorted by any con- vertice of the sync Test           2017.12-21 1222.55         GPRS         Not Run         -         The table can be filter and sorted by any con- vertice of the sync Test           2017.12-21 1222.55         Central connection         OK         2017.12-21 1153.00         Testing 10.224.9.132(Depot server)Connection to host 10.224.9.132: OKTest result: OK         The table can be filter and sorted by any con- vertice of the sync Test	
2017.12.21 1222.55         C3         Not Run         -         System test history ( test per row)           2017.12.21 1222.55         GPS         Ok         2017.12.21 11:53:14         Waiting for position dataPosition data received.Test result: OK         System test history ( test per row)           2017.12.21 1222.55         Depot Sync Test         Not Run         -         The table can be filte and sorted by any con- VoKTest result: OK           2017.12.21 1222.55         Central connection         Ok         2017.12.21 11:53:00         Testing 10.224.9.132(Depot server)Connection to host 10.224.9.132: OKTest result: OK         The table can be filte and sorted by any con- VoKTest result: OK	
2017.12-21 1222.55         GPS         Ok         2017.12-21 11:53:14         Waiting for position dataPosition data received.Test result: OK         The table can be filter and sorted by any co           2017.12-21 1222.55         GPRS         Not Run         -	one
2017-12-21 12:22:55         Depol Sync Test         Nol Run         -         The table can be filte and sorted by any con- transformed by any con- 2017-12-21           2017-12-21 12:22:55         GPRS         Not Run         -         -           2017-12-21 12:22:55         connection         Ok         2017-12-21 11:53:00         Testing 10:224.9.132(Depot server)Connection to host 10:224.9.132: OKTest result: OK         The table can be filte and sorted by any con- transformed by any con- transforme	
2017-12-21 12:22:55         GPRS         Not Run         -           2017-12-21         Central 12:22:55         Connection         Ok         2017-12-21 11:53:00         Testing 10:224.9.132(Depot server)Connection to host 10:224.9.132: OKTest result: OK	red iumn.
2017-12-21 Central Ok 2017-12-21 Testing 10.224.3 132(Depot server)Connection to nost 10.224.3 132: 12:22:25 connection OK 11:53:00 OKTest result: OK	
2017 12 21 Passanger TET	
2017/12/1 rasenger 11 Not Run - 12/22/55 display	
12:22:55 Door Not Run -	
2017-12-21 12:22:55         Next stop button         Not Run         -	
2017-12-21 12-22:55 Audio int. Not Run -	
2017-12-21 12:22:55 Audio ext. Not Run -	
1 0 yes. 1	
Save table as csv	
Current Operator. Skyss	
Current Language. Linguan	

Label	Description
Report Time	Timestamp, showing when the system test log was sent to the CM by the vehicle computer.
Test Name	The Name of the test/Type of test
Result Code	The test result (OK/Failed, or "Not Run" if the particular test was not performed.
Last Run	Time Stamp Showing when the particular test was the last run on the particular vehicle.
Log	Test log/information about the test (varies w. test/result).

## 8.4.3 Report Sheets Tab

On the Report Sheet tab, all logged report sheets for the vehicle are displayed. Report Sheet is a function for driver interaction. The driver is, at a suitable time, prompted to manually answer questions in the report sheet, which is then logged and uploaded and will be available both here in the CM and the Traffic Studio application.

The function is very flexible. For example, report Sheets can be used for driver explanations for traffic deviations and/or for manual pre and post-op checks of specific parts of the vehicle. The customer defines the questions and multiple-choice answers, etc. in each report sheet.

Overview	Vehicles	Installation	Fleets	Categories	Deliveries	Resources	Reports	Parameter Groups	Common Settings			Fault Management	Editors	
	heral	System		Report	t sheets	Fault Hi	story							
Rep	ort Sh	eets fo	or MX4	4-TmSk	yss-Ta	annaz								
2020-	-03-18 12	:59:46												
Journ	neyLateSta	art												
1 ans	swer													The latest/selected report
Que	estion					Answe	r						- 1	presented).
Anie	aning					venter pa	orrespond	anse						procented):
Histo	<b>ory</b> per page:	40										1-4	10 / 51	
	Time	•	[	Driver		Form				Ansv	vers			
filte	r		filter		filte	r		filter						
3/18/ PM	2020 12:5	59:46			Jour	neyLateSta	rt	Anledning: V	/enter på korresp	ondanse	•			Logged report sheets
2/24/ PM	2020 1:17	:47			Journ	neyLateSta	rt	Anledning: N	Vageltrång					
2/24/ PM	2020 1:17	7:47			Jour	neyLateSta	rt	Anledning: L	oppbiten					
2/24/ PM	2020 1:16	5:18			Journ	neyLateSta	rt	Anledning: V	/ei- og føreforhol	d				
2/18/ AM	2020 9:50	):11			Jourr	neyLateSta	rt	Anledning: S	Sen fra forrige tu	-				
2/12/ PM	2020 3:20	):21			Jour	neyEarlySta	art	Anledning: N	Vageltrång					
2/12/ PM	2020 2:52	2:04			Jour	neyEarlySta	art	Anledning: L	.oppbiten					
2/12/ PM	2020 2:50	0:01			Journ	neyEarlySta	art	Anledning: N	Vageltrång					
2/12/ PM	2020 1:21	:31			Jour	neyEarlySta	art	Anledning: L	.oppbiten					
2/10/ AM	2020 10:3	37:21			Journ	neyEarlySta	art	Anledning: N	Vageltrång					
2/10/ AM	2020 9:37	1:45			Journ	neyEarlySta	art	Anledning: N	Vageltrång					
2/7/2	020 2:15:	52 PM			Journ	neyLateSta	rt	Anledning: S	Sen fra forrige tu					
2/7/2	020 2:15:	50 PM			Jourr	neyEarlySta	art	Anledning: N	Vageltrång					
2/7/2	020 2:15:	49 PM			Journ	neyEarlySta	art	Anledning: N	Vageltrång					
2/7/2	020 2:15:	47 PM			Jourr	neyEarlySta	art	Anledning: N	Vageltrång					
2/7/2	020 2:15:	45 PM			Jourr	neyLateSta	rt	Anledning: T	Feknisk feil på kjø	əretøy				
2/7/2	020 2:15:	44 PM			Jourr	neyLateSta	rt	Anledning: V	/ei- og føreforhol	d				
11/27 PM	//2019 2:4	16:02			Journ	neyLateSta	rt	Anledning: L	oppbiten					

On this tab, the logged fault history of a specific vehicle/sign system is displayed.

• Note: You access this tab using the Details link on the Vehicles Tab, General Section, see below.



Label	Description
Vehicle	Vehicle number.
Severity	Fault severity/ status
Fault code	The fault name/code. See Appendix B for vehicle faults. (The fault is also explained in the Synopsis column.)
Synopsis	A short description of the fault.
Time	Timestamp showing when the fault state was detected/changed.

Installation Staff is a separate user category in the Configuration Manager (see chapter 6). For installation staff, several tabs in the interface are removed. This makes the user interface more purposeful and minimizes the possibilities for mistakes.

For installation staff, this tab is very much all that is needed with other pages available only in read-only mode.

Coursies Hebben and Congress Delevels Delevels Records Reports PararderScopt Connex-Hebps Milled BoccBet LNC FactBecoperant Editors	
Select vehicle 336 of 2222 v	Select Vehicle: Select vehicle
3350-002222	in the menu.
Verholder straug Concentry Early periodic Environie Strauge periodic Concentre Early periodic Concentre Early periodic Madewa Mick CT Madewa Mick CT Strate Strate Strate Strate Strate Earlie Strate Strate Strate Strate Earlie Strate Strate Strate Strate Strate Concentry Strate S	Vehicle Status: Current status and vehicle information. Buttons for cloning, deleting, manually trigger version check (update), generate diagnostics card, and generate vehicle specific installation card.
Weblick installation settings           * Same           Concept strings type gifts in the table.           Same Table (Science Section S	
Formulary         Emploitation         2           Index hydrodinals         NIP         III         IIII           Index hydrodinals         NIP         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Vehicle Installation Settings: Signs, Audio etc.
* Signah Konferenze kelik for doc. en strenerational knowst nie heter investert simaliteisk	
teoretini darsignali (teoretini y decor) 2 teoretini darsignali (teoretini y decor) 2 teoretini darsignali (teoretini y decor) 2 teoretini darsignali (teoretini y decor) 2 z	
✓ Periaberais	
Konfergensen an entrysenfectionling         V           Parsagneting         Vigour parsagneting         V           Schellen wurder         Nili         V           Schellen wurder         Nili         V           Schellen wurder         Nili         V           Offentieft         Nili         V           Schellen wurder         Nili         V           Markes A/C wurder         V         V           Markes A/C wurder         2         V	
₩ 3imics	
Tempt Senial 2 Temp2 Senial 2	
A System Settings	
^ Ecclosedata	
Markender Versender	Save Changes

## 8.5.1 Select Vehicle

Select vehicle in the top menu:

1	Overview Vehic	les Installation	Fleets	Categories	Deliver
Г					_
	Select vehicle:	3350-211035			-
		3350-211035			A
		3350-228228			
	3350-21	3350-228275			
	2220-51	3350-228279			
		3350-228280			
		3350-228282			
	Vehicle statu	3350-228284			
		3350 240540			E
	Download sta	3350-248600			
	Delivery	3350-248601			
	Delivery.	3350-248602			
	Resources:	3350-248603			
		3350-248604			
	Configuratio	3350-248605			
		3350-248606			
	Hardware Id:	3350-248607			
		3350-248608			

## 8.5.2 Vehicle Status

The Installation page is divided into two sections: **Vehicle Status** and **Vehicle Installation Settings**. In the top section the current delivery, resources, and configuration status is presented (using the standard colour-coding found elsewhere in the user interface):

active: The assigned delivery/resource/configuration is in use.

**pending:** The assigned delivery/resource/configuration has been downloaded but is not yet in use. (Reboot must occur first.)

downloading: Download in progress.

**download failed:** An assigned download has failed. **Note:** A download can temporarily fail for many reasons, it can be that the vehicle has been turned off, that it has temporarily lost contact with the central or that too many vehicles are synching their software at the same time (a maximum of 100 vehicles can be synchronized simultaneously).

If the Download failed status will not remain for a long period usually there is no need for concern.

awaiting download: The assigned delivery/resource/configuration awaits download.

**awaiting [the] first download:** An initial delivery/resource/configuration awaits download. This vehicle/sign is registered in the CM but has never downloaded any data.

١	/ehicle status		
ľ	Download status:		
	Delivery:	awaiting download	
	Resources:	active	
	Configuration:	awaiting download	
1	Hardware Id:	654987321	
	System Address:	2143214100	
	Last successful syn Last node version	nc: 2012-09-07 request:	15:35:19

## 8.5.3 Clone Vehicle

Cloning a vehicle is a very effective way of re-using complex settings in several vehicles; the only data that is not copied is the System address (generated when the new vehicle is named) and the Hardware ID.

Cloning the selected vehicle is simple:

1. Click on **Clone Vehicle**, the following message is presented:

Clone Ve	hicle	Delete Vehicle	Reque	st Version	
ಗಳ Create clone of 3350-002222 Enter name of new vehicle 3350-					
Clone	Canc	el			

Enter the name of the new vehicle and click on Clone.
 Cancel cancels the action.
 The new vehicle will appear on the top vehicle menu.

Privileged

## 8.5.4 Delete Vehicle

• Note! Installation Staff can only delete vehicles not yet commissioned (vehicles not yet provided with Hardware ID).

You can delete the selected vehicle by clicking on the **Delete** button.



A confirm dialogue opens to prevent mistakes. Click OK to delete, Cancel to cancel the action.



8.5.5 Request Version Check (Manual update trigger)



The vehicles check their own delivery/resources and configuration versions against those assigned in the CM every hour (configurable frequency). Only then will updates be initiated.

You can manually trigger this function by clicking on the Request Version Check button. This sends a message to the vehicle system in question making it immediately check for new versions. As you have made changes, these will be downloaded and will then take effect after the next vehicle system reboot.

• For manual Request Version Check to work the vehicle must be commissioned and be within GPRS/3G coverage.

## 8.5.6 Generate Diagnostics Card

Click on the Diagnostics Card button to generate a diagnostics zip file.

Diagnostics Card Installation Card		
Download Diagnostics Card		
-,		
diag.zip 5,3 kB • Klart	c C	
· ·		1

• Extract the Zip to the root folder of a USB Stick to make the Diagnostics card.

## 8.5.7 Generate Installation Package

-----

Vehicle-specific installation packages can be generated directly from the Installation page. With all settings checked, simply click on the **Generate Installation** button:

Clone Vehicle	Delete Vehicle	Request Version Check	Diagnostics Card	Installation Card
Generating installation	on, please wait		L	

When the installation status message shows that the installation package file has been generated, right-click on the "Installation file" link and save it to an appropriate location. Unpack the file onto a suitable flashcard.

Clone Vehicle	Delete Vehicle	Request Version Check	Diagnostics Card	Installation Card	
Installation generated ok! Please dow <del>pload installation file to you</del> r computer. Then unpack onto the installation media.					
Download here: Inst	allation file				

## 8.5.8 Vehicle Installation Settings

All basic vehicle configuration settings can be made directly on the Installation page. These settings are defined in collaboration with the customer and may vary depending on particular needs. Under expandable headers, you will find settings, including individual explanations.

Simply change the required settings in the respective fields – settings changed but not saved are highlighted with a blue rectangle.

Audio		
Konfiguration av ljudsystemet.		
Förstärkartyp:	Standard	?
Inre högtalarvolym - min [%]:	50	?
Inre högtalarvolym - max [%]:	95	?
Inre högtalarvolym - förvald [%]:	65	?
Yttre högtalarvolym - min [%]:	50	?

When all changes are made, click on the **Save Changes** button at the bottom of the page (or click **Cancel Changes** to revert to the default setting).

• Note! No changes will take effect until you save. If you leave the page without saving all changes will be lost

Förstärkartyp: Inre högtalarvolym - min [%]: Inre högtalarvolym - max [%]: Inre högtalarvolym - normal [%]: Yttre högtalarvolym - max [%]: Yttre högtalarvolym - normal [%]:	Split Activate	? ? ? ?	Click on the question mark to see an explanation of the selected setting. Click again to hide the text.
---	----------------	------------------	---

## 8.5.9 Signs (Sign Configuration for a vehicle)

Although the Sign configuration function is adapted for every customer vehicle fleet, just like the rest of the settings, a few often used sign terms may need explanation.

• Note that the Sign names vary depending on the customer (Customization).

onfigured signs. Change se	ettings by editing fields in the table.				
		•			
Sign	Туре	Width [pixels]	Height [pixels]	Address	Remove
line	Gorba/Revind Line / IBIS	0	0	11	
inner	Apricot / IBIS	24	4	60	
dest-front	Gorba / IBIS	108	26	1	
dest-right1	Gorba / IBIS	144	26	3	
dest-right2	Gorba / IBIS	144	26	5	
dest-left	Gorba / IBIS	144	26	8	
Lägg till ny skylt inner - inner - viatex front - front - front - front - rear - 0	Mobitec / UDP Mobitec / UDP SIGN_TYPE_VIATEX Mobitec / R5485 SIGN_TYPE_HANOVER Aobitec / R5485 SIGN_TYEE_HANOVER				

The first column in the list contains "Sign names", determining the information presented on the sign. If the sign name is "front", for instance, the content and layout will be adapted for presentation on the front sign of the bus. For internal signs/displays, there are many custom layouts so there are several alternatives for these. The table below describes various sign names in use by our customers.

Label	Description
front	Front sign
front2	Used if the side sign needs a different configuration than the front sign. (Most often they have the same address and resolution.)
left-small	Used for side line sign, if it is small and needs a different configuration than the rear sign.

Label	Description
rear	Rear outer sign
segment	Rear outer sign (seven-segment display)
inner	Inner sign, if another type than Mobistop, Viatex, or Apricot
mobistop	Inner Mobistop LED sign
viatex	Inner Viatex sign
nsi	Inner Mobitech Next Stop Indicator sign
dest- front	The front destination sign
dest- right1	The front right side destination sign
dest- right2	The rear right side destination sign
dest-left	The left side destination sign
line	Outer tram "roll" type line sign.

## 8.5.10 Add a New Sign:

- C3

To add a sign to the vehicle configuration is easy:

1. Select sign type in the menu (see below)

lign	Туре	Width [pixels]	Height [pixels]	Address	Remove
ine	Gorba/Revind Line / IBIS	0	0	11	
nner	Apricot / IBIS	24	4	60	
dest-front	Gorba / IBIS	108	26	1	
dest-right1	Gorba / IBIS	144	26	3	
dest-right2	Gorba / IBIS	144	26	5	
dest-left	Gorba / IBIS	144	26	8	
agg till ny skylt ) inn- io nfiguration av ljud rea rea	er - Mobitec / UDP er - Mobitec / UDP ex - SIGN_TYPE_VIATEX i - Mobitec / RS485 it - SIGN_TYPE_HANOVER r - Mobitec / RS485 r - SIGN_TYPE_HANOVER	7.			

2. Click on Add new sign, the sign is added to the sign list and can now be configured.

## Sign Configuration Faults

If the Configuration Manager discovers problems with the sign configuration the following message is displayed:

Vehicle installation settings - signs

Can not configure signs. Existing configuration is malformed and could not be loaded.

Most often this is because the user has entered the wrong resolution or address for one or more signs. To solve the problem, try to revert to an earlier version using the History section on the Vehicle page (see chapter 8.3 )

## Other settings

Settings for **Audio**, **Signals** and **Peripherals** vary with customer configuration. Use the built-in setting explanation (click on the question mark) to see what each setting means.

## 8.6 Fleets

On the Fleet page, the Fleet groupings are administered. Here you can create and delete fleets and configure the resources connected to each fleet. Whenever a resource connected to a fleet has changed, all vehicles in the fleet will be updated with the changes, as soon as the vehicles have downloaded the change and have rebooted.

Which vehicles/signs shall be added to a particular fleet can be defined here, or on the Vehicle/Sign page, depending on which is most convenient in each case.

More information about the connected resources can be found on the **Resources** page (chapter 8.8.4)

• **Tip:** Always create a new Fleet and a new Category for a new Delivery. Name the Fleet and the Category accordingly. This makes reverting to older versions much simpler.


## 8.6.1 The General Section

Overview Vehicles	Installation	Fleets	Categories	Deliveries	Resources	Reports	Parameter Groups	Common Settings	LIVE	Fault Management	Editors
Fleet											
	Search							r			
Name	f-1.3_Harda	angerVos	s								
Deployment Note											
								1			
General Setting	S										
Company Id	31										
Additional Com	panies										
Speaker Voice	innsp	oilt1									

Label	Description
	Search and select field. Enter text to get matching items in the menu below to choose from.
Search	Click on the menu arrow to the right to expand the menu.
	Click in the list to select – selection displayed in the Name field, below.
Name	Menu: Selected fleet
Deployment Note	Add/change fleet deployment notes here, then click on Save Changes to save.
Company ID	The ID number for the Operator/Company Note that if the Company ID is not entered, the CM cannot automatically assign resources to the vehicles of the fleet. The correct ID must be entered for all fleets that need traffic data resources. Multiple fleets can have the same Company ID if they need the same traffic data resources. If you, for test reasons, create a fleet that does not need automatically distributed resources, you can leave this field empty.
Additional Companies	Traffic data from these companies will also be included (if company id:s entered).
Speaker Voice (configurable input field)	In systems using alternative voices, you can enter the selected voice for the fleet here. In systems using synthetic voices (Acapela), select the voice you want to use in the fleet here. Eg. "Rhona", "Louise" etc.

#### 8.6.2 Import Settings

The Import Settings section configures if data packages to vehicles/signs ("BIB:s") are to be generated for the fleet, and when in the import process these are to be distributed.

**Tip:** To verify traffic data with a test rig in a test fleet, configure BIB generation directly when the import stage has been completed. See the "Connect BIB in phase - Import" setting below.)

**Note:** Depending on system, the audio file inclusion and BIB generation may instead be a part of the system configuration.

I.	- Import Settings	
L	Fleet Type	Vehicle 🗸
L	Audio Types	🗹 Stop Areas 🗹 Destinations 🗹 Lines 🗹 Misc 🗹 Clock 🗹 Stop Points
L	Activate Bib	
l	Connect Bib In Phase	Deploy 🗸

Label	Description
Fleet Type (menu)	Vehicles/Signs
Audio Types	The type of audio files to be included. Depending on the system.
Activate Bib	Create Bib (data packge for vehicles/signs). Check to generate/activate BIB. Uncheck if bib generation is unnecessary.
Connect Bib in phase (menu)	<ul> <li>When to distribute the BIB:s to the vehicles/signs:</li> <li>Import: When the import stage in the TS traffic data import tool has been completed, and before the verification and deployment of the traffic data.) Use this setting to verify data with test rigs included in test fleet.</li> <li>Deploy: When the import has completed the deploy stage (see TS Traffic Data import tool description). The BIB:s are distributed when the traffic data is deployed in the central system. This is the normal setting for fleets with vehicles/signs in service.</li> </ul>

#### 8.6.3 Parameter Group membership

Add/remove parameter group membership(s) for the fleet.

	Parameter group membership		
	Name	Last Modified	Add/Remove
	Search •		0
-			

The connected resources section lists all resources connected to the fleet. Controls for deleting and adding selected resources are available.

Connected Resources						
Name	Resource Type	Last Modified				
announcement	announcement	2020-04-08 03:59:00Z	Î			
AUDIO_MISC_5_33_34_35_36_INNSPILT120170503_104416	audio_misc	2017-05-03 11:23:30Z	Î			
AUDIO_STOP_AREAS_4_21_INNSPILT120171108_153334	audio_stop_areas	2017-11-08 15:46:34Z	Î			
CustomSigns_NOB	signconfig	2018-01-22 12:02:37Z	Î			
BIB_4_21_INNSPILT120180308_080545	bib	2018-03-08 09:06:02Z	Î			
vdi-company-21-driverdb	driverdb	2018-07-25 09:47:42Z	Î			
Search v			Ð			

Header	Description
Name	Resource name
Resource Type	Resource type
Last Modified	Timestamp showing when the resource was last edited/changed/saved.

## 8.6.5 The Members Section

1	Name	Last Communication	Delivery Status	Resource Status	Config Status
	214321-2345		awaiting first download	awaiting first download	awaiting first download
	214321-4100		active	active	awaiting download
	214321-4101		active	active	active
	214321-4102		active	active	active
	214321-4103		active	active	active
	214321-4999		awaiting download	pending	awaiting download

Begrepp	Förklaring
Name	The vehicle name, including a three or four-digit vehicle number. (Depending on company configuration).
Last Communication	Timestamp showing the last time the vehicle/sign was in contact with the CM.

Begrepp	Förklaring
	Delivery status, colour-coded
	active: The assigned delivery/resource/configuration is in use.
	<b>pending:</b> The assigned delivery/resource/configuration has been downloaded but is not yet in use. (Reboot must occur first.)
	downloading: Download in progress.
Delivery Status	<b>download failed:</b> An assigned download has failed. Note: A download can temporarily fail for many reasons, it can be that the vehicle has been turned off, that it has temporarily lost contact with the central or that too many vehicles are synching their software at the same time (a maximum of 100 vehicles can be synchronized simultaneously).
	If the Download failed status will not remain for a long period usually there is no need for concern.
	awaiting download: The assigned delivery/resource/configuration awaits download.
	awaiting [the] first download: An initial delivery/resource/configuration awaits download. This vehicle/sign is registered in the CM but has never downloaded any data.
Resource Status	Resource status, colour-coded (see above)
Config Status	Configuration status, colour-coded (see above)

## 8.6.6 The History Section (Expandable)

Click on **History** to expand the section. Here a list is displayed showing the last (up to a maximum of ten) fleet versions:

<< History These are the most recent changes. Click revert button to go back to a previous version.					
Before actually reverting to the old version, the system will check if the old version is still ok.					
Time	Changed by				
2012-09-12 16:46:22	I4MTEST1\edward.lundin	Current version			
2012-09-12 16:46:19	I4MTEST1\edward.lundin	Revert			
2012-09-12 16:46:15	I4MTEST1\edward.lundin	Revert			
2012-09-12 16:46:11	I4MTEST1\edward.lundin	Revert			
2012-09-12 16:46:08	I4MTEST1\edward.lundin	Revert			
2012-09-12 16:46:06	I4MTEST1\edward.lundin	Revert			
2012-09-12 16:46:05	I4MTEST1\edward.lundin	Revert			
2012-09-12 16:46:03	I4MTEST1\edward.lundin	Revert			
2012-09-12 15:56:15	unknown	Revert			

Click on a version row in the list to see the XML settings for the version. Click on the **Revert button** to revert to the selected version. A dialogue window is presented. Click OK to revert and **Cancel** to cancel the action.



When you revert to an earlier version this is added to the list, just like a new version.

- 1. Click on **New Fleet** the text field is emptied, and the Add Fleet button is added.
- 2. Enter the name of the fleet in the empty field.
- 3. Add resources in the **Resources** menu.
- 4. Click on Add Fleet.

#### 8.6.8 Add Vehicle/Sign (members) to a Fleet

- 1. Select a vehicle /sign in the list.
- 2. Click on **Add member** to add the vehicle/sign to the list.

#### 8.6.9 Remove Fleet Member(s)

1. Tick the boxes for the vehicles/signs you want to remove from the fleet.

<b>V</b>	3	350-248622	2013-02-26 16:38:21	active
<b>V</b>	3	350-248623	2013-02-26 16:25:51	active
	3	350-248624	2013-02-23 09:49:19	awaiting downloa
<b>V</b>	3	350-248625	2013-02-26 16:33:33	active
	3	350-248626	2013-02-26 16:22:02	active
	3	350-248627	2013-02-26 16:38:18	active

- 2. Click on the **Delete member** button. Confirm in the dialogue.
- 3. Click **OK** in the dialogue to remove the vehicle/sign (-s).
- Note that the vehicle/sign is not deleted, simply removed from the selected Fleet grouping!

#### 8.6.10 Delete Fleet (Without Members)

- 1. Select Fleet in the top menu
- 2. Click on Delete Fleet, a dialogue is shown
- 3. Confirm by pressing **OK**.
- Note! Only fleets without members can be deleted. To delete the fleet you first have to remove all members from the fleet.
- Note! Vehicles removed from a fleet, that no longer will have any resources connected will not function in the system until they have resources (either individually connected or through a new Fleet membership).

On the Categories page, categories are created and deleted. Here, every category can be set up with the appropriate delivery (software version) and all category parameters can be set.

- Note! We recommend that you always create a new Category (and Fleet) for every major Delivery release, instead of simply updating the delivery for an existing category. This makes it much easier to revert to a tried and tested system configuration when problems arise.
- Note! Unless specific vehicle requirements demand it, always set the parameters for whole categories instead of individually per vehicle. This makes it much easier to handle changes/updates for many vehicles.

The Categories page is divided into four sections: **General** (category), **Delivery** (software release), **Members** (category members – vehicles/signs), and **Parameters** (parameter editing XML tools):

Search, Select (menu)							_
Deployment notes	Overview Vehicles Installation Fle	ets Categories Deliverio	es Resources Reports Paramete	r Groups Common Settings	InfoText Nova Bus LIVE	Fault Management Edito	rs
Save/Cancel changes (Notation)	Name Inte Deployment Note	malSignCat			<		
Add, Delete Category	Save Changes Cancel	Changes Category					
Select/change delivery	Delivery Name Version Customisation	i4m_vehicle_agent 20.8.3 its4mobility/interna	-ATOM-linux-26				
Parameter Group Membership	Parameter group membershi Name pg-depot-settings-test5	ip	Last Mod	Set Delivery	2016-02-10 14:16:00	DZ I	Remove Parameter group
Select	Members		Last Communication	Delivery Status	Resource Status	Config Status	Add Parameter Group (button > menu)
members for removal	Delete Selected Member(s	i) Add Member	2021-03-12 13:15	astire	active	active v	Category member status fields
Remove selected members (ticked )	Screen shot continues on n	iext			Ada	d category mber (menu)	

	Catogon Paramotors		
	Category Farameters		_
	Component: net.v	fier olvo.vms.services.audiomanager	$\sim$
	amplifier.ty	pe = VAA02_AMPLIFIER	
	amplifier.pr	eload.0.speakers = ALL_SPEAKERS	
Category	ampililei.pi	eload.o.cimens - 500	
parameters	Parameter: sign		
listed	sign.0.name	olvo.vms.llpraries.signmanager-custom = front	
	sign.0.type	= SIGN_TYPE_HANOVER	
	sign.0.width	= 160 t = 19	
	sign.0.addre	ss = 1	
	sign.0.outpu	tter = SERIAL PORT	
	sign.0.outpu sign.1.name	tterinstance = 0 = rear	
	sign.1.type	= SIGN_TYPE_HANOVER	
	sign.1.width	= 32	
	sign.1.addre	ss = 3	
	sign.1.outpu	tter = SERIAL_PORT	
	sign.1.outpu sign.2.name	tterinstance = 0 = lateral	
	sign.2.type	= SIGN_TYPE_HANOVER	
	sign.2.width	= 160 t = 19	
	sign.2.addre	ss = 2	
	sign.2.outpu	tter = SERIAL_PORT	
	sign.2.outpu	tterinstance = 0	
	Parameter: defau	ltInternalVolumeLevels	
	Component: net.v	olvo.vms.services.audiomanager	$\sim$
	deradicincer		
	Edit Catagony Barama	toro	_
Edit selected	Functions		
category	Parameters	net.volvo.vms.services.audiomanager.volumeReduction	
outogoly	Schema	xml version="1.0"?	
		<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"></xsd:schema>	
		<pre><xsd:restriction base="xsd:unsignedByte"></xsd:restriction></pre>	
		<pre><xsd:enumeration id="UNKNOWN_SPEAKERS" value="0"></xsd:enumeration></pre>	
		<pre><xsd:enumeration id="INTERNAL_SPEAKERS" value="1"></xsd:enumeration> <xsd:enumeration id="FXTERNAL_SPEAKERS" value="2"></xsd:enumeration></pre>	
		<pre><xsd:enumeration id="DRIVER SPEAKERS" value="4"></xsd:enumeration></pre>	
		<re><xsd:enumeration id="ALL_SPEAKERS" value="7"></xsd:enumeration></re>	
		<pre><xsd:enumeration id="NO_AMP_CONTROLLED_SPEAKERS" value="8"></xsd:enumeration> </pre>	
		<red:complextype name="VolumeReduction"></red:complextype>	
		<pre><xsd:annotation> </xsd:annotation></pre>	
			$\sim$
	Default XMI	A volume reduction lowers the volume on all sneakers during given time	_
	Component	<pre></pre> <pre>&lt;</pre>	~
		<volumereduction <="" name="" th=""><th></th></volumereduction>	
		speakers- 1 startTime="00:00"	
		endTime="00:00"	
		completelyOff="false" reductionPercent="0">	
		ArelumeDeduction name-UU	
		speakers="1"	
		startTime="00:00"	
		endTime="00:00"	$\sim$
		reductionPercent="0">	
	XML	xml version="1.0" encoding="UTF-8"?	
		<depotparameter></depotparameter>	
		<volumereduction <="" name="" th=""><th></th></volumereduction>	
		speakers="1"	
		startTime="00:00" endTime="00:00"	
		completelyOff="false"	
		reductionPercent="0">	
		<pre>\/volumereduction&gt;</pre>	
		<volumereduction <="" name="" th=""><th></th></volumereduction>	
		speakers="1"	
		endTime="00:00"	
		completelyOff="false"	$\sim$
		/ reductionPercent="0">	
		validate Opdate Reset	
	Lister		-
	✓ <u>History</u>		

80 (144)

## 8.7.1 The General Section

Overview	Vehicles	Installation	Fleets	Categories	Deliveries	Resources	Reports	Parameter Groups	Common Settings	InfoText	Nova Bus	LIVE	Fault Management	Edito	ors
Gene	ral	-													
			Search											*	
Name	е	[	Internal	SignCat											
Deplo	oyment N	ote									_				
												$\sim$			
												~			
		L													
Sav	e Chang	es Car	ncel Ch	anges											

Label	Explanation				
	Search and select field. Enter text to get matching items in the menu below to choose from.				
Search	Click on the menu arrow to the right to expand the menu.				
	Click in the list to select – selection displayed in the Name field, below.				
Name	Selected category name				
Deployment Note	Category notes (Save changes with Save Changes button, cancel with Cancel Changes button)				

## 8.7.2 The Delivery Section

Delivery	
Name	i4m_ve le_agent-AIC4-linux-26
Version	12.17.0p73
Customisation	its4mobility/large/core/norway/skyss
Change Delivery	i4m_vehicle_agent-AIC4-linux-26-12.17.0p73  Set Delivery

Label	Explanation
Name	Name of the software delivery
Version	Software version
Customization	Chosen customer adaptation
Change Delivery	Menu: Change delivery

## 8.7.3 The Parameter Group Membership Section

Parameter group membership					
Name	Last Modified				
parametergroup-vmd1001	-	Î			
its4mobility/parametergroup-fm2_events	-	Î			
parametergroup-upload-all-logs	-	Î			
its4mobility/parametergroup-use-can-only-as-odo-source	-	Î			
parametergroup-protocols-v19.4	-	Î			
pg-4-20mA-tempSensor	2018-05-31 13:43:00Z	Î			
pg-enable-freecall-password	2015-01-01 00:00:00Z	Î			
pg-ringtones	2015-05-28 13:01:00Z	Î			
pgz-temporary-akt	2018-07-03 13:15:00Z	Î			
Search •		Ð			
pg-4-20mA-tempSensor pg-enable-freecall-password pg-ringtones pgz-temporary-akt Search *	2018-05-31 13:43:00Z 2015-01-01 00:00:00Z 2015-05-28 13:01:00Z 2018-07-03 13:15:00Z	Î Î Î Î O			

In this section, you can apply or remove parameter groups for the category. For every parameter group, the Last Modified column shows when the particular parameter group was changed/applied.

See the Parameter group chapter (8.10) for more information about Parameter groups.

### 8.7.4 The Members Section

Members								
Î	Name		Last Communication	Delivery Status	Resource Status	Config Status		
	3350-248888-testvagnB	oreal-opskyss	2019-08-14 14:02:38	awaiting download	awaiting download	awaiting download		
Dele	Delete Selected Member(s) Add Member							
Search								

In the Category Members section, all vehicles/signs included in the selected category are listed with added information about last communication and delivery, resource, and configuration status. Controls under the list let you add or remove category members.

Label	Explanation
Name	Name of the member (vehicle/sign)
Last Communication	The last time the vehicle/sign communicated with the CM

Label	Explanation
	Delivery status, colour-coded
	active: The assigned delivery/resource/configuration is in use.
	pending: The assigned delivery/resource/configuration has been downloaded but is not yet in use. (Reboot must occur first.)
	downloading: Download in progress.
Delivery Status	download failed: An assigned download has failed. Note: A download can temporarily fail for many reasons, it can be that the vehicle has been turned off, that it has temporarily lost contact with the central or that too many vehicles are synching their software at the same time (a maximum of 100 vehicles can be synchronized simultaneously).
	If the Download failed status will not remain for a long period usually there is no need for concern.
	awaiting download: The assigned delivery/resource/configuration awaits download.
	Awaiting [the] first download: An initial delivery/resource/configuration awaits download. This vehicle/sign is registered in the CM but has never downloaded any data.
Resource Status	Resource status, colour-coded (see above)
Config Status	Configuration status, colour-coded (see above)

#### 8.7.5 The Category Parameters Section

```
Category Parameters

Parameter: operator

Component: net.volvo.vms.vehicle.initialprovisioning

Instance:

operator.0.id = 2148101

operator.1.name = GS-Spårvagn

operator.1.id = 2148102

Parameter: volumeReduction

Component: net.volvo.vms.services.audiomanager

Instance:

volumeReduction.0.name = late night

volumeReduction.0.spaakers = EXTERNAL SPEAKERS

volumeReduction.0.startTime = 22:00

volumeReduction.0.completelyOff = true

volumeReduction.0.completelyOff = true

volumeReduction.1.spaakers = EXTERNAL SPEAKERS

VolumeReduction.1.spaakers = EXTE
```

All individual parameters set for the selected category are listed in the Category Parameters section.

In this section, all Category parameters can be checked and edited in XML format.

To see or edit a parameter, first, select the basic function in the Function Menu, then the individual parameter in the Parameter Menu, the XML sections will show the data for the selected parameter. The Schema section includes an (xsd) explanation of the parameter.

The parameter XML code can be edited in the bottom XML Component section. The **Validate** and **Update** buttons are used for first validating the XML code and updating the parameter. The **Reset** button will revert a changed XML parameter to the default setting (the one shown in the Default XML component section).



Privileged

Label	Explanation
Functions	Menu: Functions
Parameters	Menu: Individual parameters available for the selected function
Schema	Documentation: Parameter alternatives for parameters set in the XML field (see below).
Default XML Component	Default parameter setting, included in the delivery.
XML	A field for XML parameter setting

• Note. The parameters are included in the selected (software) delivery. If no delivery has been selected in the Delivery section, the Edit Category Parameter menus and fields will be empty.

#### 8.7.7 The History Section

Expand the History section to see a log covering all changes, including time stamps and the user that initiated the change/upgrade. Click on the Time or Changed By cells to see all settings in a separate XML window.

The log also includes a Revert function. By clicking on the Revert button for the previous version you can easily "undo" a change that has caused problems. The system will check the older version before the change.

<< History These are the most recent changes. Click revert button to go back to a previous version. Before actually reverting to the old version, the system will check if the old version is still ok.							
Time	Changed by						
2013-02-22 10:01:58	HFK-SIS-DFS-T\edward.lundin	Current version					
2013-02-22 10:01:55	HFK-SIS-DFS-T\edward.lundin	Revert					
2013-02-22 10:01:49 unknown Revert							

A confirm dialogue prevents mistakes (see below).

< < History These are the most re Before actually reverti	cent changes. Click ing to the old versio	revert button to go back to a previous version. n, the system will check if the old version is still ok.	
Time		Changed by	
2013-02-22 10:01:58	;	HFK-SIS-DFS-T\edward.lundin	Current version
2013-02-22 10:01:55	i	HFK-SIS-DFS-T\edward.lundin	Revert
2013-02-22 10:01:4	Message from webpage	to revert to this version?	Revert
Current Operator: S			
Current Language:		OK Cancel	

- 1. Click on **New Category** the text field with the category name will be emptied and the **Add Category** button will be added
- 2. Enter a name and click on the Add Category button. A warning text will indicate that the category is "empty" and without functions.
- 3. Select delivery in the **Delivery** menu and click on the **Set Delivery** button. The delivery details will be displayed in the Delivery section.
- 4. Optionally, add Parameter group membership(s).

## 8.7.9 Add a Vehicle/Sign (member) to a Category

1. Select a vehicle/sign in the menu to the right of the Add member button.

Last Communicati	on	Delivery Status	Res
(s) Add Member	3350-211	035	-
	3350-211 3350-228	035 228	<b>^</b>
	3350-228	275	
	3350-228 3350-228	279 280	

2. Click on the Add member button. The vehicle/sign is added to the category.

### 8.7.10 Remove Category Member

- 1. Tick the boxes for the vehicles/signs you want to remove from the category.
- 2. Click on the Delete Selected Member(s) button. A confirm dialogue is presented.
- 3. Click on the **OK** button in the dialogue window to remove the selected vehicles/signs. **Cancel** cancels the action.
- Note! Removing a vehicle from a category does not mean that the vehicle is "deleted", only that is not included in the selected category!

## 8.7.11 Delete Category

- Note! Only a category without members can be deleted. If you want to delete a category with members, first remove the members (see above) and then delete the category.
  - 1. Select the category you want to remove in the **Name** menu.
  - 2. Click on the **Delete Category** button. A confirmation dialogue is presented.
  - 3. Click on the **OK** button in the dialogue window to delete the category. **Cancel** cancels the action.

On the Deliveries page, all available software deliveries are administered. The deliveries included in the list here are those that can be assigned to the Categories and individual Vehicles/Signs on their respective pages.

- Note: Deliveries are shared and available for all companies/partitions in the system.
- Deliveries are supplied by Consat as zip files and uploaded to the customer CM using • functions on this page.

Select one or more software deliveries	D	elete	Change	Name	Version	In use by	Release notes		
for deletion or change) by clicking in	Þ			i4m_disco_agent- ATOM-linux-26	21.1.0	Discoman	Web, Excel (Details: Web, Word)		
he corresponding tick pox.				i4m_disco_agent- MX4-linux-26	21.1.0	Discoman	Web, Excel (Details: Web, Word)	11	
				i4m_vehicle_agent- AIC4-linux-26	20.8.3	c-skyss-haukaas-volvo, c-skyss-haukaas, c-skyss-keolis-bergen-sentrum, c-skyss- live, c-skyss-nordhordland, c-skyss-12p-factory, c-skyss-12p, c-skyss-sentrum, c-skyss-sunnhordland, c-skyss-test, c-skyss-tide-bergen-nord, c-skyss-vest, InternalSignCat, Volvo, Boreal, Z-trafiken, Bergkvara, Area Units	<u>Web, Excel</u> (Details: <u>Web</u> , <u>Word</u> )		
				i4m_vehicle_agent- AIC4-linux-26	21.2.0p28	<u>c-boreal-akt, c-skyss-nordhordland-nettbuss</u> , Boreal	Web, Excel (Details: Web, Word)		
				i4m_vehicle_agent- AIC4-linux-26	21.4.0p40		Web, Excel (Details: Web, Word)	11	View release not
				i4m_vehicle_agent- ATOM-linux-26	20.8.3	c-skyss-haukaas-volvo. c-skyss-haukaas, c-skyss-keolis-bergen-sentrum, c-skyss- live, c-skyss-nordhordland, c-skyss-12p-factory, c-skyss-12p, c-skyss-sentrum, c-skyss-sunnhordland, c-skyss-test, c-skyss-tide-bergen-nord, c-skyss-vest, InternalSignCat, Volvo, Boreal, Z-trafiken, Bergkvara, Area Units	Web, Excel (Details: Web, Word)	╟─	<ul> <li>(selected format basic or detailed)</li> </ul>
				i4m_vehicle_agent- MX4-linux-26	20.8.3	c-skyss-haukaas-volvo, c-skyss-haukaas, c-skyss-keolis-bergen-sentrum, c-skyss- live, c-skyss-nordhordland, c-skyss-72p-factory, c-skyss-12p, c-skyss-sentrum, c-skyss-sunnhordland, c-skyss-test, c-skyss-tide-bergen-nord, c-skyss-vest, InternalSignCat, Volvo, Boreal, Z-trafiken, Bergkvara, Area Units	<u>Web, Excel</u> (Details: <u>Web</u> , <u>Word</u> )		
				i4m_vehicle_agent- MX4-linux-26	21.1.0	3350-997404	Web, Excel (Details: Web, Word)	11	
				i4m_vehicle_agent- MX4-linux-26	21.2.0	<u>c-skyss</u>	Web, Excel (Details: Web, Word)	11	
				i4m_vehicle_agent- MX4-linux-26	21.2.0p28	<u>c-boreal-akt, c-skyss-nordhordland-nettbuss</u> , Boreal	Web. Excel (Details: Web. Word)	11	
				i4m_vehicle_agent- MX4-linux-26	21.2.0p52		Web, Excel (Details: Web, Word)	11	
				i4m_vehicle_agent- MX4-linux-26	21.3.0p29	,	Web, Excel (Details: Web, Word)		
				i4m_vehicle_agent- MX4-linux-26	21.3.0p53	Boreal	Web, Excel (Details: Web, Word)	11	
				i4m_vehicle_agent- MX4-linux-26	21.4.0p40		Web, Excel (Details:	11	
				i4m_vehicle_agent- MX4-linux-26	21.4.0p56	MX4-TmSkyss-Tannaz	Web, Excel (Details: Web, Ward)	11	
				i4m_vehicle_agent- MX4-linux-26	21.4.0p61		Web, Excel (Details: Web, Ward)	11	
				i4m_vehicle_agent- MX4-linux-26	21.4.0p64	<u>c-FAC</u>	Web, Excel (Details: Web, Ward)	11	
		Delete	Select	ed (Deliveries in use of	an not be d	leleted.)	vveb, vvord)	li –	
	C	Change	e Delive	ery:					
		-			~	Change Delivery			
	-	olood r		livery file					
		pioad r	iew de	iiveiy ille		Browse			
			_			DIVINO			

## es

#### The Deliveries Section

Label	Explanation
Name	Delivery name
Version	Software version. Versions including a "p" are preliminary (not tested enough for major release).

Label	Explanation
In use by	A list of all vehicles/signs/categories that use the delivery.
Release notes	Open release notes for delivery – web/word format. Basic or detailed release notes are available.

## 8.8.1 Add New Delivery (software version)

- 1. Select a partition in the top menu (if you have not already selected the wanted partition to work with).
- 2. Click on the **Browse button** and select the (zip) file you want to upload.

	Desures
--	---------

- 3. Click on the Upload button. The new delivery will be added to the list.
- Note! The uploaded file, of course, must be a correct delivery. If not, a warning message will be displayed:

F	ail to upload d	lelivery! The file is not valid, must be 'name-version.zip'
	Deliveries	
	Delete	Name
		i4m_vohiclo_paont-AIC4-linux-26

#### 8.8.2 Delete Unused Delivery/Deliveries

- Deliveries in use cannot be deleted (those checkboxes are greyed out).
  - 1. Tick the **Delete** box/boxes of the delivery or deliveries you want to delete.
  - 2. Click on the **Delete Selected** button.

Delete Selected (Deliveries in use can not be deleted.)

### 8.8.3 Change delivery for all users of selected deliveries

You can quickly change the delivery for several users (i.e. "move" all users of one or more selected deliveries to another delivery in the list) with the "change delivery" function.

#### • All users of the deliveries you select in the list will receive the selected delivery.

1. Tick the Change box/boxes of the delivery or deliveries whose users you want to receive the (new?) delivery.

	1			Hinternal-SignLat, Volvo, Boreal, Z-tratiken, Bergkvara, Area Unite	1
		i4m_vehicle_agent- MX4-linux-26	20.8.3	c-skyss-haukaas-volvo, c-skyss-haukaas, c-skyss-keolis-bergen-sentrum, c-skyss- live, c-skyss-nordhordland, c-skyss-t2p-factory, c-skyss-t2p, c-skyss-sentrum, c-skyss-sunnhordland, c-skyss-test, c-skyss-tide-bergen-nord, c-skyss-vest, linternalSignCat, Volvo, Boreal, Z-trafiken, Bergkvara, Area Units	<u>We</u> (De <u>We</u>
Γ		i4m_vehicle_agent- MX4-linux-26	21.1.0	3350-997404	We (De We
		i4m_vehicle_agent- MX4-linux-26	21.2.0	c-skyss	We (De We
Γ		i4m_vehicle_agent- MX4-linux-26	21.2.0p28	<u>c-boreal-akt, c-skyss-nordhordland-nettbuss</u> , Boreal	We (De We
Γ		i4m_vehicle_agent- MX4-linux-26	21.2.0p52		<u>We</u> (De <u>We</u>
		i4m_vehicle_agent- MX4-linux-26	21.3.0p29		<u>We</u> (De
	V	i4m_vehicle_agent- MX4-linux-26	21.3.0p53	Boreal	We (De We
					We

2. Open the Change Delivery Menu and select the delivery all the users are to receive.

i4m_disco_agent-MX4-linux-26-21.1.0 i4m_vehicle_agent-AIC4-linux-26-20.8.3	
i4m_vehicle_agent-AIC4-linux-26-21.2.0p28	MX4-TmSkyss-Tannaz
i4m_vehicle_agent-ATC4-infux-26-21.4.0p40	
i4m_vehicle_agent-MX4-linux-26-20.8.3	
i4m_vehicle_agent-MX4-linux-26-21.1.0	
i4m_vehicle_agent-MX4-linux-26-21.2.0 i4m_vehicle_agent-MX4-linux-26-21.2.0p28	
i4m_vehicle_agent-MX4-linux-26-21.2.0p52	1 <u>c-FAC</u>
i4m_vehicle_agent-MX4-linux-26-21.3.0p53	deleted )
i4m_vehicle_agent-MX4-linux-26-21.4.0p40	Jeleteu.)
14m_venicie_agent-wiX4-linux-26-21.4.0p56	

3. Click on the **Change Delivery** button. All users of the selected deliveries will now receive the delivery you selected in the menu. The users will be "moved to" that delivery in the list.

		InternalClanCat, Vision, Bossel, 7 teafficer, Berglevers, Assa Unite	1146 116
	i4m vehicle agost MX4-linux-25	20.8.3 cirkvas-turkasa-robo, cirkvas-turkasa, cirkvas-teolir bergen-sertrum, cirkvas live, ciskyas-narchostiland, ciskyas-r2p-factery, ciskyas-r2p, ciskyas-sertrum, ciskyas-surrihootdiand, ciskyas-teolir ciskyas-teolir bergen-root, ciskyas-vest, internatSignCat, Volvo, Boreal, Z-traficen, Bergkrama, Area Units	Neb. Exte Details: Neb. Wee
	Self. Self. H. Schulz		Web, Exc
0 0	MX4-linue-26	21.1.0 3350-997404	(Details:
-			1760 270
	idm vehicle agent-		Web. Exc
	MX4-linux-2G	21.2.0 E-skyfs	(DMPR)
_			1160 110
	i4m vehicle agent-	24.2 August a based at a science of a strength of a streng	Preb. Lxc
	MX4-linux-26	21.2 upze conserver, conjugationshelling hereitas, laceae	Web We
-			Wah Day
	i4m_vehicle_agent-	21.2.0473	(Detaile)
	MX4-linux-26		Web Wo
	-		Web Exc
	4m vehicle agent-	21.3.0+29	(Details:
	MX4-linux-26	- Contra	Web. Wor
			Web Exc
	ji4m vehicle agent-	21.3.0=63 Bernal	(Details:
	MX4-Inux-26		Web We
			Web Exc
	nom venicle agent-	21.4.0p48	(Details:
	MAT 1110 - 20		Web We
	they contribute account		Web. Exc
	MX4 liner, 26	21.4.0p56 MX4-TmS cyss-Tannaz	(Details:
			Web. Wo
	ites unbirds around.		Web. Exc
	MX4-linux-26	21.4.0p61	(Details:
			Web. Wo
	idm vehicle agent-	han a state 🔽 🖌	Web Exc
	MX4 linux 26	21.4 0064 CEAT	[Details:
Dalete Sele	ected (Deliveries in use	can not be deleted.)	11762 170
Change De	ivery:	Change Dolivery	
idm_disco_	egent-ATOM-linux-26-21	.1.0	
4m_disco	agent-MX4-linux-25-21.1		
am_vahici	s_agem-zuc-4-linux-26-21	10.3	
idm unhich	e_agenrywC4-linux-26-21 is_asset_AIC4-linux-26-21	4.0x40	
	e egent-ATOM-linux-76-2	0.83	
	e agent MX4 linux 26-20	8.3 Boose	
i4m vehici		1.0	
i4m_vehici i4m_vehici i4m_vehici	to agent MX4-linux 26-21		
4m_vehici 4m_vehici 4m_vehici 4m_vehici	e_agent MX4-linux 26-21 e_agent-MX4-linux-26-21	20	
am_vehici 4m_vehici 4m_vehici 4m_vehici 4m_vehici	lo_agent MX4-linux 26-21 9_agent-MX4-linux-26-21 1_agent-MX4-linux-26-21	2.0p28	
am_vehici 4m_vehici 4m_vehici 4m_vehici 4m_vehici 4m_vehici	io_agent MX4-linux 26-21 ie_agent-MX4-linux-26-21 io_agent-MX4-linux-26-21 io_agent-MX4-linux-26-21	2.0p20 2.0p20	
am vəhici idm vəhici idm vəhici idm vəhici idm vəhici idm vəhici idm vəhici	e_agent MX4-linux 26-21 e_agent-MX4-linux-26-21 e_agent MX4-linux-26-21 e_agent-MX4-linux-26-21 e_agent-MX4-linux-26-21	2.0 2.0p20 2.0p52 3.0p29	
am vahici idm vahici idm vahici idm vahici idm vahici idm vahici idm vahici idm vahici	is_agent MX4 linux 26.21 is legent-MX4-linux-26-21 is_agent-MX4-linux-26-21 is_agent-MX4-linux-26-21 is_agent-MX4-linux-26-21 is_agent-MX4-linux-26-21	2 0 2028 2 0 p28 3 0 p29 3 0 p29	
em_vahici idm_vahici idm_vahici idm_vahici idm_vahici idm_vahici idm_vahici idm_vahici idm_vahici	is_agent MX4-linux 26:21 is_agent MX4-linux 26:21	2 0 2 0/02 2 0/02 3 0/02 3 0/04 3 0/04 4 0/04	
m. validi iám_vehici iám_vehici iám_vehici iám_vehici iám_vehici iám_vehici iám_vehici iám_vehici	is_agent MX4-linux 26-21 is_agent-MX4-linux 26-21 is_agent MX4-linux 26-21	2 490 2 692 2 692 3 392 3 596 1 4 690 4 690	
vehici idm_vehici idm_vehici idm_vehici idm_vehici idm_vehici idm_vehici idm_vehici idm_vehici idm_vehici idm_vehici idm_vehici	is agent MX4-linux 26-21 is agent MX4-linux 26-21 is, agent MX4-linux 26-21	2 4 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	
iam vehici iam vehici	is agent MX4-linux 26-21 is agent MX4-linux 26-21 is agent MX4-linux 26-21 is agent MX4-linux 26-21 is upent MX4-linux 26-21 is agent MX4-linux	2 0,010 2 0,010 2 0,020 3 0,020 3 0,020 4 0,010 4 0,040 4 0	

#### 8.8.4 Resources

On the **Resources** page, all resources are managed. These resources can be assigned to Fleets and/or vehicles on their respective pages.

So, just what is a "resource" in the Consat Telematics system? Simply put, it is all the data that the vehicle and sign systems need to have to perform their tasks. Examples are Traffic data (BIB files) including geographic data, time tables, and blocks, sound files for next stop and destination announcements, driver lists for driver log-in, etc.

Resources are handled separately from the software (delivery) and configuration data and can be updated regularly without these being affected at all. All resources are adapted for the customers' needs so no unnecessary data will be transferred.

# • A Fleet or a vehicle can have several resources of the same type assigned, like "audio\_lines" for instance. Just make sure the resource files in the resources do not have the same name.

The Resources page is divided into two sections:

In the top, **Resources**, section all available resources are listed. Here resources can be created or cloned (copied and renamed for later editing). Some resource types can also be created from imported excel files.

To view and edit the content of a resource, click on the resource row in the top section. The bottom **Content of [the] selected resource** section lists all individual files included in the resource. Here files can be added or deleted from the resource.

-		Resource Ty	/pe	Last Modi	fied	Modifier	an use	
	announcement	announcem	ent	2014-06-	13 03:59:00Z	live	yes	
	audio_destinations_skyss_w_c10q7_20130301	audio_desti	nations	2013-03-	01 15:36:50Z		yes	
	audio_destinations_skyss_w_c10q7_20131124	audio_desti	nations	2013-11-	24 10:30:17Z		yes	Pesource list: All available
	audio_lines_skyss_c10q7_20130301	audio_lines		2013-03-	01 14:46:47Z		yes	Resource list. All available
	audio_lines_skyss_spx_121205	audio_lines		2012-12-	05 13:26:00Z		no	resources for the fleets and
	audio_misc_skyss_spx_121205	audio_misc		2012-12-	05 13:26:27Z		no	vehicles/signs of the partition
	audio_misc_skyss_w_c10q7_20130301	audio_misc		2013-03-	01 15:21:47Z		no	listed here. Select a resource
	audio_misc_skyss_w_c10q7_20130301_2	audio_misc		2013-03-	01 15:21:10Z		no	clicking on the row. The inclu
_	audio_misc_skyss_w_li0q/_20130410 audio_mis audio_stopareas_skyss_spx_121205 audio_sto			2013-04-	10 16:54:092		yes	individual files will be listed i
<u> </u>	audio_stopareas_skyss_spx_121205 audio_sto			2012-12-	05 13:27:482		no	Content of selected resource
_	audio_stop_points_skyss_w_c10q7_20130301 audio_st			2013-03-	17 15:04:207		yes	bolow
_	BIB_20121205_155346 bib			2012-12-	17 15:04:302		yes	below.
<u> </u>	BIB_20130227_105525_POBLIC_PISG	bib		2013-03-	12 00:54:027		10	
	BIB 20120412 085249 pipProp2	bib		2012-04-	12 16:10:467		00	
	BID 20130515 144125	bib		2012-05	17 00:21:467		10	
	010_20130313_144123	010		2013-03-	17 39.21.402	1	745	
	ZonerBergen		zonedb		2015-03-3	2	no	
_					2020-04-2	1		
	vdi-company-op-skyss-zonedb		zonedb		15:25:16	shared.li	ve yes	
П	vdi-company-on-skyss-Prod				2018-08-3	D		
Delet Create Select i Clone r	Resources in use can not be deleted.)      New resource      resource type: acdc      Tesource      resource	purce name:	zonedb	Cr	14:16:08	<u>shared.li</u>	ve no	
Delet Create Select n Clone r Select n Enter n Select n	Ite Selected Resources in use can not be deleted.)  te Selected Resources resource	Browse	Import		14:16:08	z <u>shared.li</u>		
Delet Create Select i Select i Enter in Select i Enter in Conte Enter in Conte Enter in Conte Enter in Conte Enter in Conte Co	I section of the second secon	Browse	Import	Vest. <u>f-BIB-</u> Im-demo-s	Samtafikiesi, Ebo	r-groupcall	EWBIB.	Individual resource files in th resource selected in the top section.
Delet Create Select i Clone r Clone r Enter n Select i Enter n Conte Enter n Conte In use <u>6-PRO</u> <u>c</u> -tm-dc Lond du select Select i Enter n Conte Deletete		Browse	Import Last Moo	Vest [-BIB-]	Samtafitiet f.bo	r-oroupcall	weiß.	Individual resource files in th resource selected in the top section.
Delet Create Select of Enter n Select of Enter n Conter <b>anni</b> In use <u>i pPRO</u> <u>i preof</u>		burce name:	Import Last Moo	Vest (EIB-)	Samtrafitast f.bo	r-groupcall o-skyss N	wBIB.	Individual resource files in th resource selected in the top section.

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(Lists all available resources.)

Label	Explanation
Name	Resource name
Resource Type	Type of resource
Last Modified	The timestamp shows when the resource was most recently modified
Modifier	User or process that has modified the resource. "Live" means an automatic process has updated the resource.
In use	In-use status (yes/no), shows if the resource is in use by any unit.

## 8.8.6 Content of selected resource Section

(Lists files in the selected resource.)

The Fleets that use the resource are listed above the content list. Click on a fleet link in this list to go to the corresponding Fleet view, see the example below.

Click on a listed resource user to go to the Fleet view with the particular fleet selected							
Content of selected resource							
anno	announcement						
In use by: f-BIB-Samtrafiktest, f-bor-groupcall, f-PROD_BIB-test f-tm-demo-skyss-33, f-tm-demo-skyss-35, f-tm-demo-skyss, f-tm-demo-skyss2 >> Metadata							
Delete	File Name	Content Type	Last Modified				
	FT1349070.xml	xml	2013-06-17 18:01:24Z				
	FT1349071.xml	xml	2013-06-18 08:08:24Z				
	FT1349074.xml	xml	2013-06-19 16:57:17Z				
	FT1349090.xml	xml	2013-06-27 16:17:37Z				
	FT1349091.xml	xml	2013-06-27 16:55:15Z				
	FT1349187.xml	xml	2013-09-02 14:59:54Z				
	FT1349188.xml	xml	2013-09-02 15:02:15Z				
Delete Selected (Can not delete content of resource in use.)							
Upload new file to this resource							
Can not add content to resource in use.)							

Label	Explanation
File Name	The name of the resource file. Note: For manual sign resources created from an imported excel file, the original Excel file will also be available in the list.
Content Type	File type ( xml, txt, jpg)

Label	Explanation
Last Modified	The timestamp shows when the resource file was most recently modified

#### 8.8.7 Add New Resource

1. Choose resource type in the "Select resource type" menu.

Create new resource	e	
Select resource type	: acdc announcement PTC	Enter resource name:
Clone resource	audio_destinations audio_lines	
Select resource to c	audio_minutes audio_misc audio_stops	_uvv_c10q7_20130411 🔽 EI
	audio_stop_areas axionsigndb axionsignfw	
Content of selected	i ri bib binary	
stop_poir	driverdb extra_info	_uw_c10q7_2013(
In use by: f-tm-der	flashutil groupcall image	)-skyss-35, f-tm-demo-skyss, f-tm-(
>> Metadata	image_lines infotext	
Delete File	Na mid	Content Type L
120	Lophonebook	speex 2
120	post_init_script	sneey
120	pre_init_script	
120	signconfig	
120	slideshow	speex 2
120	LO swt	speex 2
120	0 Zonedb	speex 2

- 2. Enter the name of the new resource in the text field to the right of the menu
- 4.

3.

3. Click on the **Create** button to add the new resource to the list of resources.

l	Create new resource	
l	Select resource type: audio_destinations <ul> <li>Enter resource name</li> </ul>	Destination Z Create
L	Clana racourse	

• Note: If you try to create a new resource with the same name as one of the resources in the list, an error message will be shown. Change the name and try again.

#### 8.8.8 Clone a Resource

Cloning resources is a very useful function for creating variations of a resource. Clones can, for instance, be edited to include extra resource files and/or to exclude resource files in the original resource.

1. Choose a resource to clone in the menu.

Clone resource				
Select resource to clone:	customSigns	Enter rew name:		Clone
	audio_lines audio_misc			
Content of selected resou	audio_stop_points BIB_20120828_buss			
Resource name: customS In use by: f-buss, f-skärg	BIB_20120828_skärgård BIB_20120828_spårvagn			
L	customSigns		I- · · -	

- 2. Enter a new name in the field to the right.
- 3. Click on the **Clone** button to add the cloned resource to the resource list.

#### 8.8.9 Import an Excel File to Create a Resource

In the "Import resource" section, you can import Consat specified Excel files for creating corresponding resources.

Currently, configuring your "Special" vehicle signs is the only supported resource type. The file template is available on your system portal, see below.

Note that the name of the Excel file configuring Special Signs is "Manual Signs". (Other files/resource types will be supported by future releases.)

Select resource type: signconfig  Enter resource name: Browse Import	Import resource		
Enter resource name: Browse Import	Select resource type: signconfig		
	Enter resource name:	Browse	Import

#### Excel file template

 The "Manual Signs" config Excel template is available on your Consat system portal, see below for how to find it.

Tip: The "Manual Signs – Manual" document graphically shows the different symbols and layouts currently available.



- Note that the Manual Signs Excel file has separate tabs with information and sign config/content, where you specify the available Special signs. See the image below.
- The "Help" tab specifies the destination field formatting.
- Appendix B in this document describes basic Manual Sign configuration using the Excel template, w. resulting signs.

	ter alma Selemat Paula Para	family the title keeled						
104	NOW Scool device interaction and data as Creden	ed-beiden-relayer for 3 of cliver of such	a Nightering - data so an					
	<ul> <li>I X ✓ ≸ sterychistics</li> </ul>							
e.	с	D	E	F	G	н	1	1
	Special Si	anc						
	Special Si	giis ,						
ķ	DKAMPLE / INSTRUCTION	EXAMPLE / INSTRUCTION	DAMPLE /	EXAMPLE / INSTRUCTION	EXAMPLE / INSTRUCTION	EXAMPLE / INSTRUCTION	EXAMPLE / INSTRUCTION	EXAMPLE / INSTRUCTION
	What to display on line signs and to the	W28 override the line key on	INSTRUCTION	B bit righ culor, here (0x0000) or	What to display on the	Destination sign, info on	Destination signs, info here will be dealered as a result form?	Unique sign code far external sign
	rept of the destination signs. Leave evenu if no lice info wanted.	if nat period	8 bit igo color, nex (0xi0111) or decimal	decimal	destination signs.	second fow.	be displayed on a new 'page', alternation with page 1.	controller
ľ	Line	Line Extended	Line Color	Line Background Color	Destination	Dest Row 2	Dest Page 2	Sian Code
Г					Merry Christmas			
	[[airport]]				Airport Express		Free ride!	
	RED LINE		0xF00	0xFFF	Riverside			
Ŀ	he							

Edit the needed sections of the template and save it to a suitable location.

Import Excel File and Create Resource, Step-By-Step

- 1. Enter a descriptive resource name. (This does not have to match the file name.)
- 2. Click on Browse to open a browser window. Navigate to and select the Excel file.

Choose File to Upload						2
← → ~ ↑ → This PC → Desktop → sig	n config X		ڻ ~	Search sign config X		م
Organise 👻 New folder						2
💻 This PC	^ Name	^ Date n	modified Type	Size		
3D Objects	🕼 Company X Ma	nualSigns.xlsx 2020-0	05-04 09:47 Microsoft Exc	el W 33 KB		
E. Desktop						
Documents						
🕹 Downloads						
Music						
E Pictures						
🧱 Videos						
🏪 Local Disk (C:)						
Local Disk (D:)						
EOS_DIGITAL (F:)						
nojekt (\\SPIDER) (P:)						
n Stockholm (\\BLUEBIRD) (Q:)						
🛫 t (\\SPIDER) (T:)						
👳 mattias.johnson (\\spider\users) (U:)						
× (\\SPIDER) (X:)	¥					
File name: Company X Manu	alSigns.xlsx		~	All Files (*.*)		~
				Onen	Cancel	
				open	cuncer	
	Import resource					_
	Select resource but	e: eignconfig V				
	Enter resource nan	e: Snecial Signs	Broy	vse Import		
	Litter resource fidi	opeoial orgina	DIO	mport		

- 3. Click on **Open** in the browser window
- 4. Click on the **Import** button.

l	Import resource			
	Select resource type: signconfig			
	Enter resource name: Special Signs	C:\Users\mattias.johnson	Browse	Import

Note: If you try to import a file type that is not supported or a config file with the wrong content an error message will show in red at the top of the tab page. See below.



#### 8.8.10 Delete Unused Resource

- Note! Only resources not used by any unit can be deleted.
  - 1. Tick the corresponding box (in the extreme left column in the list) to select the resource (-s) you want to delete.
  - 2. Click on the **Delete** button. A dialogue will show. Click on the **OK** button to delete and on **Cancel** to cancel the action.

#### 8.8.11 Add Files to a Resource

- Note! Resource files can only be added to a resource, not in use. To update a resource in use, first Clone the Resource (see a previous chapter) then edit the clone, and finally, switch to using the clone instead of the original resource.
  - Select the resource you want to add files to in the list by clicking on the row (not the tick box in the delete column). The current content is listed in the lower **Content of** the selected resource section. If the resource contains no files the text "Resource has no content" is displayed.
  - 2. Click on the **Browse** button at the bottom of the **Content of the selected resource** section. Locate and select the file you want to add.

Z	onedb.xml	xml
Delete Selected		
Upload new file t	o this resource	
	Desure	
	Browse Upic	ad

- Note: Several files can be added simultaneously but in that case, they must be zipped into one file. All files must be placed in the zip root. The CM will unpack and add the files to the resource.
  - 3. Click on the **Upload** button. The file is added to the resource. (The file must, of course, be of the right type to be accepted by the Content Manager).

#### 8.8.12 Edit a Resource File

- 1. Select the resource in the Resources list.
- 2. Right-click on the file in the Content of the selected resources list that you want to edit. Save the resource to your local hard drive.
- 3. Open the resource file with a suitable editor and make the edit. Save.
- 4. Add the file to the resource as described above, an uploaded file will overwrite the original resource file.

#### 8.8.13 Delete an Unused Resource File

- 1. Make sure the right resource is selected in the Resources section.
- 2. Tick the corresponding box in the Delete column in the Content of selected resource section.
- 3. Click on the **Delete** button. A confirm dialogue will be presented. Click on **OK** to delete and **Cancel** to cancel the action.

On the Reports page, parameter reports for selected vehicles/signs from one or more partitions (companies) can be created. For instance, reports allow you to quickly identify units with specific hardware or configuration.

A powerful filter section with flexible filtration both before and after the report search allows focused, to-the-point, reports that only cover what you need to know.

## 8.9.1 Application Top Report Search Field

With any other tab than the Reports tab selected, a top Search field is presented above the application tabs. Presently, this works like a "remote" for and as a link to the report search on the Reports tab.

- When you click in the field, it expands for extra clarity.
- Enter search criteria: Name, number, hardware-ID, etc. Below the search field, search hints are listed that can be selected for inclusion in the search. The search hints simplify entering specific search items.
- The search hints also affect the report, as columns are added to include specific content (target type/variant etc.)
- Multiple entries can be included comma separated.
- Press Enter to perform the search the reports tab will open, presenting the report.



To quickly perform a report search, enter search criteria in the top search field and press Enter. The report tab will open showing the report generated with the last used operator/partition selection. You can use the report (save/print) or modify and redo the search as needed.

## 8.9.2 The Reports Tab: Operators and search filter

The Reports tab consists of a search section where you select the operators/partitions that are to be included in the search, and the specific search entries (the search field is also presented above the tab row in the application with any of the other tabs selected).

Overview     Vehicles     Installation     Feets     Calegories     Deliveries     Resources     Reports     Parameter Groups     Common Settings     IntoText     Nova Bus     LVE     Fault Management     Editors       Operators       Select operators for the report:       Image: Skyps     Image: Skyps       Image: Nova     Image: Skyps       Image: Nova     Image: Skyps	Select one or more operators/partitions that are to be included. This selection will be the default in the next search during the current session.
UVT-Bus	
UVT-Tram	
Z-trafiken Bergkvara	
Q. targetType=AIC3, Counch tipe 5 help	The report search field (Search carried over from the top search
Generate Report Save Report	report tab).

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verview \	/ehicles Instal	Ilation Fleets	Categories Deliveri	es Resourc	es Reporte	Parameter	r Groups Common Se	ttings InfoText N	ova Bus LIN	/E Fault M	anagement	Editors
Operat	ors	the report										
All No		the report.										
✓ Sk	iss											
✓ Vol	vo											
Dis	coman											
VT-	Bus											
UVT-	Tram											
Bor	eal											
□Z-tr	afiken								_			
∟Ber	gkvara											
Q ta	rgetType=	MX4,			_	_						
Search	tips & help											
0	t. B	Oran D										
Gener	ate Report	Save Rep	port									
Report +	I- A- A- A7											
incput b	00K 4S TOF 42	28 rows with 4	14 columns.									
Docult F	OOK 4S TOF 42	28 rows with 4	14 columns.									
Result F	оок 4s тог 42 ïlter:	8 rows with ?	14 columns.								_	L
Result F	ilter: Filter	8 rows with ?	14 columns.									-
Result F	ilter: Filter	28 rows with 4	14 columns.									-
Result F	ilter: Filter <u>678910&gt;</u>	>> System	l ast									-
Result F Result 12345 Name	ilter: Filter 678910>	System Address	Last	ld	<u>Operator</u>	Category	<u>Fleet</u>	Delivery	Reso	urces Tic	1R Ampl	it
Result F Result 12345 Name 3350-	Filter Filter 6789102 targetType	System Address	Last communication 2017-11-20	ld	<u>Operator</u>	Category	<u>Fleet</u>	Delivery	Reso gent- 2017-	urces Tic	1R Ampl Single	ii
Result F Result F Result 12345 Name 3350- 002222	Filter Filter 6789102 targetType MX4	System Address 3350002222	Last communication 2017-11-20 15:54:03	ld	<u>Operator</u> Skyss	<u>Category</u> c-skyss	<u>Fleet</u> f-tm-demo-skyss	Delivery i4m_vehicle_ac MX4-linux-26- 21.2.0	gent- 2017- 20 15:54	urces Tic -11- :28	1R Ampl Single Activa	iff e
Result F Result F Result 12345 Name 3350- 002222 3350-	Filter 6789102 targetType MX4	System Address 3350002222	Last communication 2017-11-20 15:54:03 2017-11-28	ld	Operator Skyss	<u>Category</u> c-skyss	<u>Fleet</u> f-tm-demo-skyss	Delivery i4m_vehicle_ag MX4-linux-26- 21.2.0	gent- 2017- 20 15:54 2017- 2017- 2017- 2017-	urces Tic 11- :28 11-	1R Ampl Single Activa	
Result F Result F Result 12345 Name 3350- 002222 3350- 003333	Filter 6789102 targetType MX4 MX4	System Address 3350002222	Last communication 2017-11-20 15:54:03 2017-11-28 11:06:43	<u>Id</u>	Operator Skyss Skyss	Category c-skyss	Fleet f-tm-demo-skyss	Delivery i4m_vehicle_ag MX4-linux-26- 21.2.0	gent- 2017- 20 15:54 2017- 28 11:02	urces Tic 11- :28 :11- :42	1R Ampi Single Activa	iff eest
Result F Result F Result 7 12345 Name 3350- 002222 3350- 003333 3350-	Filter Filter 6789102 targetType MX4 MX4	System Address 3350002222	Last communication 2017-11-20 15:54.03 2017-11-28 11:06:43 2017-11-22	12345670	Operator Skyss Skyss	Category c-skyss	F-tm-demo-skyss	Delivery i4m_vehicle_aq MX4-linux-26- 21.2.0 i4m_vehicle_aq MX4.linux_26	Reso gent- 2017- 20 15:54 2017- 28 11:02 gent- 2017- 29 gent- 2017- 2010	urces Tic 11- :28 11- :42 11-	1R Ampl Single Activa	iii e e
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Result F <b>12345</b> <b>Name</b> <b>3350-</b> 002222 <b>3350-</b> 003333 <b>3350-</b> 004444 <b>3350-</b> 100003- <b>72p</b> <b>3350-</b> 103333 <b>3350-</b> 103333 <b>3350-</b> 103333	box 4s tot 42       Filter       Filter       6789102       targetType       MX4       MX4       MX4       MX4       MX4       MX4       MX4       MX4	System Address 3350002222 3350004444 3350100003 3350100033 3350190011	Last communication 2017-11-20 15:54:03 2017-11-28 11:06:43 2017-11-22 10:16:17 2020-04-22 15:00:06 2018-01-02 14:38:04 2021-03-05 10:14:22	Ld 12345678 18221018 16041078 19032682	Operator Skyss Skyss Skyss Skyss Skyss Skyss	Category c-skyss c-skyss c-skyss- r2p c-skyss c-skyss	F-tm-demo-skyss f-tm-demo-skyss f-2.2_Bergen_sor f-tm-demo-skyss f-tm-demo-skyss	Delivery i4m_vehicle_ac MX4-linux-26- 21.2.0 i4m_vehicle_ac MX4-linux-26- 21.2.0 i4m_vehicle_ac MX4-linux-26- 21.2.0 i4m_vehicle_ac MX4-linux-26- 21.2.0 i4m_vehicle_ac MX4-linux-26- 21.2.0 i4m_vehicle_ac MX4-linux-26- 21.2.0 i4m_vehicle_ac i4m_vehicle i4	Reso gent- 2017- 20 15:54 2017- 28 11:02 gent- 2017- 22 10:16 gent- 2027- 20 15:54 gent- 2021- 20 15:54 gent- 2021- 20 15:54 20 1555 20 10 15:54 20 15 15 15 15 15 15 15 15 15 15 15 15 15	urces Tic 11- :28 11- :42 11- :34 08- :40 11- :28 02- :18 05	1R Ampl Single Active Single Active Single Single Active Single	

If you did not generate the report directly from the top search field (by entering a search item and pressing enter), you can generate the report by pressing the "Generate Report" button below the search section. The report list will be presented below.

The report list will include a pre-specified number of columns to suit the search, and include extra columns as specified in the search field (target type etc.)

#### 8.9.3 Save Report as Excel File

The generated report can be saved as a standard excel file by clicking on the **Save Report** button.

#### 8.9.4 Result Filter – Limit Report Presentation

A "post search" free text Result filter lets you exclude everything but the information you are after in the presented report data. Both text and numbers can be entered.

Simply enter the desired filter and click on the **Result Filter** button to limit the report to the matching content.

Re 21 Fil	esult Filt 1 Result Fil tered 1	ter of 1 rows								]
N	ame	System Address	Last communication	Id	Operator	Category	Fleet	Delivery	Resources	Tic1F
31 21	150- 1035	3350211035	2013-02-28 13:05:52	482012- 15393043	Skyss	c-skyss	f-skyss	i4m_vehicle_agent -AIC4-linux-26- 13.3.0p20	0	
								•		

Privileged

## 8.9.5 Generate a Report (Without Using the top Search Section)

1. Choose partitions (operators) by ticking the corresponding boxes or click on "All" to tick all the boxes in one go. "None" deselects all boxes.



2. If you want to only include some vehicles/sign enter these in the filter field. If you enter "12" like in the screenshot below, all entries with Name or Hardware ID including this number will be included in the report:

Q 12		
Search tips & help		
Generate Report	Save Report	

• Click Search Tips & Help to view an explanation of the search possibilities.



3. Click on the **Generate Report** button to generate the report.

123456	i								
Name	System Address	Last communication	Id	Operator	Category	Fleet	Delivery	Resources	Tic1R
2148101- 312	2148101312		452007- 462737	GS Spårvagn	category-M31 -10_13	fleet- 10_13	itid-AIC3- linux-24- 10.13.3	0	Knapp
2148101- 322	2148101322		382007- 417128	GS Spårvagn	category-M31 -10_13	fleet- 10_13	itid-AIC3- linux-24- 10.13.3	0	Knapp
2148101- 323	2148101323		382007- 417112	GS Spårvagn	category-M31 -10_13	fleet- 10_13	itid-AIC3- linux-24- 10.13.3	0	Knapp

Now either save the report by clicking on the **Save Report** button, selecting a suitable location and again clicking save. Or you can examine the report directly and limit the presentation to the free text/numbers you enter in the Result filter. Click on the **Result Filter** button for the filter to take effect.

#### The Report Content

- Columns will be added to suit a specific search (when Targettype, TargetVariant, etc. is included in the search string...), for instance, will Irma APC-sensors be displayed with serial no, firmware version, etc.
- Note: Missing configuration will leave a blank cell in the report spreadsheet.

Header	Explanation
Name	Vehicle name
Metadata.(xxx) – several columns	Columns showing connected Irma sensors firmware version, model, serial no
System Address	Unique system unit address, used for communicating with the central system.
Last Communication	Timestamp showing the most recent communication.
ld	Hardware ID
Operator	Partition (often used for dividing the CM content for different Operators)
Category	Assigned Category
Fleet	Assigned Fleet
Delivery	Software delivery (software version)
Resources	Resource
Amplifier	Type of amplifier
Volume Internal Min	Set minimum volume level, internal speakers (%).
Volume Internal Max	Set maximum volume level, internal speakers (%).
Volume Internal Default	Set default volume level, internal speakers (percentage, within the interval between minimum and maximum level)
Volume External Min	Set minimum volume level, external speakers (%).
Volume External Max	Set maximum volume level, external speakers (%).
Volume External Default	Set default volume level, external speakers (percentage, within the interval between minimum and maximum level)
Volume Reduction [#X]	Volume Adjustment
Speakers [#X]	Speakers affected by the Volume Adjustment

Header	Explanation
Start Time [#X]	Volume Adjustment start time
End Time [#X]	Volume Adjustment end time
Reduction [#X]	Volume reduction (%)
Off [#X]	Mute (yes/no)
Sign [#X]	Sign position
Type [#X]	Sign protocol
Width [nummer X]	Sign width in pixels
Height [nummer X]	Sign height in pixels

Parameter Groups, or Parameter Sets, are ready-made parameter sets used for feature enabling, easier configuration, etc. They can be applied to whole Categories or individual vehicles/signs.

Parameter sets can either be pre-configured in the CM by Consat or included in the software deliveries.

On the Parameter Group page, you select and view the parameter groups available in the deliveries currently stored in the Configuration Manager. A short description of the selected parameter group is presented under the ID (parameter group selection) menu in the General Section.

Apart from viewing parameter groups the page also has functions for applying parameter groups to categories and individual vehicles/signs. Although this can be done on the respective Category and Vehicle/Sign pages, sometimes it can be more efficient to do it from the Parameter Group page. The "member" lists work just like the other lists in the interface with a menu for adding a "member" and tick boxes for selecting and removing members.

• Note! The system checks compatibility between the selected parameter group and the delivery in the selected vehicle/category and will alert the user about incompatibility issues when applying the parameter group. Even so, it is possible that applying a parameter group to a category with one or more vehicles with separately assigned deliveries can cause compatibility problems. Make sure your vehicle deliveries are compatible with the parameter group you are applying.



#### 8.10.1 Customer Specific Parameter Group Settings Field

Depending on customer needs the parameter group tab may include a customized settings field for easy editing of selected parameter group settings. The settings work just like the ones you find on the Installation and Common Settings tabs. The field includes parameter descriptions – click on the question marks to view individual descriptions. See the example below.

Overview Vehicles In	stallation Fleets	Categories Deliveries	Resources Report	Parameter Groups	Common Settings	InfoText	Nova L Bus	.IVE Fault Management	Editors
General Include from De Id Name Description	elivery - pg-myg My Gar Setting	<b>jarage</b> 'age Is for my garage!	<b>▼</b>						
Inställningar <u>- Journey Star</u> Configuratio Start time [ End time [s]	r <b>rt Notification</b> on of the journey s (s]: 600 1: 60	start notification po	ppup.						
<u>+ Audio</u> <u>+ Signals</u> <u>+ Peripherals</u> Spara ändringar	End time [s]: 60 2 + Audio + Signals + Peripherals Spara ändringar Avbryt								
Category Memb	Member(s) Add M	ember Kategori-14_	11 🔻						
Vehicle Member	rs Last Comr Member(s)   Add M	nunication	Delivery Sta	tus	Resourc	e Status		Config Status	
Current Operato Valt Språk: Sve	or: Nobina	<b>T</b>							

## 8.11 Common Settings

Although all vehicle/sign system configurations can be performed using the XML-editing tools in the Vehicle/Sign and Categories windows, many users are uncomfortable with XML-editing. To simplify setting commonly used parameters the Common Settings page provides simple menus and numerical fields to empower all non-power users.

The settings are performed, either on a selected category, (all vehicles/signs) or a single vehicle/sign in the selected category. (A single vehicle has to be a member of a category to be able to be configured with this simplified tool.)

Listen cope for utiling (where on an entre catagory or a specific vehicle)         Catagory         Vehicle	Overview Vehicles Installation Fleets Categories Deliveries Resources Reports Parameter Groups Common Settings InfoText Nova Bus LIVE Fault Management Editors
Select copy or and and a cappor of a specific vehicle.         Charger	Level Selection
Charge value         Value         Value           Value	Select scope for setting (either on an entire category or a specific vehicle)
Velocity of controls	Category c-FAC V Vehicle (AII) V
Within Factorian for category (c.FAC)         Within Factorian for category (c.FAC)         Compositions for category (c.FAC)         Sectorian         Control finites         Control finites         Sectorian         Sectorian <t< th=""><th></th></t<>	
Bit in the second Compared to It to age that have           Interview Colspan="2">Control to a control to a contro	- Malura reduction rettings
No.       Extension       Exacting       Reduction       Completely Off Legg Blin barr         Image: Stress of the str	Volume reductual semigo Change audio reductions for category (c-FAC)
EXTERAL     [INV [INV [INV [INV [INV [INV [INV [INV	Name Speakers StartTime EndTime Reduction Completely Off Lagg till/ta bort
Header finess         Header finess for category (cFAC)           Exclude Start Times for category (cFAC)         60 0 00 0 00 00 00 00 00 00 00 00 00 00	
The series       Marine         Image heading work for About the University States	
Settings for category: c-FAC         Auto                Sum Changes               Excel Changes                 State: Stop: Initiation               Excel Changes	Change health filmers for category (c-FAC)
Image:       Image:         Image:       Concol Changes	Enabled Start Time Duration Weekdays Months
000 80 00 00 Marwart FDSSS       12334566770991101112         Swe Changes       Colleg times         Colleg times       South The Son Data Son Conception of the Son Data Son Data Son Conception of the Son Data Son Conception of the Son Data Son Conception of the Son Data Son Data Son Conception of the Son Data So	
Seve Changes         Cooling times for category (c-FAC)         Diamon of the set	
Swe Changes         Coling times- Change cooling times for category (cFAC)         Diabled Start Time       Weskdays         O Ø × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	
Colling finals         Colling finals         Colling finals         Colling finals         Oliny (00 v)	Save Changes Cancel Changes
Charge coding times for category (c-RC)	- Cooling timers
Box       B	Change cooling times for category (c-FAC) Enabled Sant Time Duration Weakfave Months
Image:       Image:         Image:       Image:         Seve Changes:       Cancel Changes	
Image:       Image:         Image:       Image:         Seve Changes:       Cancel Changes	
Swe Changes         Settings for category: c-FAC <ul> <li>Signs</li> <li>Audo</li> <li>Audo</li> <li>Edrargtinssnitt</li> <li>Passagerarinformation - battspaininnelse</li> <li>System</li> <li>System</li> <li>Mater: Stop Limits</li> <li>Heater: Stop Limits</li> <li>Heater: Strings</li> <li>Heater Strings</li> <li>Remote contour temperature providers</li> </ul> Swe Changes         Cancel Changes	
Settings for category: c-FAC <ul> <li>Sigus</li> <li>Audio</li> </ul> Eitrargrinnsmitt <ul> <li>Passagerarinformation</li> <li>Passagerarinformation</li> <li>Passagerarinformation</li> <li>Passagerarinformation</li> <li>Passagerarinformation</li> <li>System</li> <li>System</li> <li>Heater: Stop Limits</li> <li>Heater: Stop Limits</li> <li>Heater Settings</li> <li>Heater Settings</li> <li>Remote condoor temperature providers</li> </ul> <li>Seve Changes         <ul> <li>Cancel Changes</li> </ul> </li>	Save Changes Cancel Changes
Settings for category: c-FAC	
Settings for category: c-FAC  Signs  Subset Settings for category: c-FAC  Signs  Audo  Editargitansanit  Seasagerarinformation_batespaintmetse  System  Vammare  Vammare  Vammare  Heater_Strop Limits  Heater_Durations  Heater_Strings  Remote cutdoor temperature providers  Cancel Changes	
<ul> <li>Signs</li> <li>Signs</li> <li>Audio</li> <li>Exargeransonitt</li> <li>Passagerarinformation - bittespiminnetse</li> <li>Passagerarinformation - bittespiminnetse</li> <li>System</li> <li>Yamare</li> <li>Vamare</li> <li>Heater Strop Limits</li> <li>Heater Strop Limits</li> <li>Heater Strop Limits</li> <li>Heater Strings</li> <li>Remote outdoor temperature providers</li> </ul>	Settings for category: c-FAC
Audio     Audio     Corregansation     Consequentiation     Assequentiationmation - baitesplaininnelse     Assequentiationmation - baitesplaininnelse     Assequentiation     Asequentiation     Assequen	▲ _Signs
Ecorogeneseii     Ecorogeneseiii     Ecorogeneseiiii     Ecorogeneseiiii     Ecorogeneseiiii     Ecorogeneseiiii     Ecorogeneseiiii     Ecorogeneseiii     Ecorogeneseiiii     Ecorogeneseiiii     Ecorogeneseiiii     Ecorogeneseiiii     Ecorogeneseiii     Ecorogeneseiii     Ecorogeneseiii     Ecorogeneseiii     Ecorogeneseiiii     Ecorogeneseiiiiiii     Ecorogeneseiiiiiiiii     Ecorogeneseiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	^ Audio
Pasageraridomation     Pasageraridomation_baltespaininelse     System     Varnare     Heater Stop Limits     Heater Stop Limits     Heater Settings     Remote.outdoor temperature providers  Seve Changes     Cancel Changes	Eorarytänssnitt
Pasagerainformation - Juitespaininnelse     System     System     Vamare     Heater Stop Limits     Heater Strings     Heater Strings     Remote outdoor temperature providers  Seve Changes     Cancel Changes	Assageratinformation
System     Vimmare     Meater Stop Limits     Meater Stop Limits     Meater Stop Limits     Meater Settings     Remote outdoor temperature providers      Save Changes     Cancel Changes	Cassogerarinformation - baltespáminnelse
Virialize       * Heater Stop Limits       * Heater Stopings       * Remote outdoor temperatures providers       Save Changes       Cancel Changes	y yatan
Heater Durations     Heater Cutations     Meater Settings     Cancel Changes     Cancel Changes	A Heater Stool India
America Statistics     America Statistics     Cancel Changes     Cancel Changes	Nexes - Style Lemma
	∧ Heater Settings
Save Changes Cancel Changes	Remote outdoor temperature providers
Jaro Chingles Concer Chingles	San Channe Carol Channe
	ana ciantia Canco ciantes
Current Operator: Skyss V	Current Operator: Skyss v
Vall Sortk (Auto v)	Valt Sockk Auto

## 8.11.1 Level Selection Section

Here you select which system units are to be affected by the settings. First, select a category and then select all vehicles/signs in the category, or a single individual vehicle/sign in the category. (A vehicle has to be a member of a category to be "reachable" by the tool.)

Level Selection					
	Select scope for setting (either on an entire category or a specific vehicle)				
Category Vehicle	c-skyss  (All)				

Label	Explanation
Category	Selected category (menu).
Vehicle	Selected vehicle/all vehicles in the category that will be affected by the parameter settings.

#### 8.11.2 Volume Reduction Settings Section

ſ	Volume reductio	on settings				
L	Change audio	reductions for category (	c-skyss)			
L	Name	Speakers	StartTime	EndTime	Reduction	Completely Off
I		EXTERNAL_	00 - 00 -	• 00 • 00	• •	
l						

In the Volume Reduction settings section, volume reduction settings for specified periods can be stored and named. For instance, the sound levels may be lowered at night.

Header	Explanation
Name	Name of Volume Reduction setting. Free text.
Speakers	The speaker sets covered by the setting (driver/internal/external speakers).
Start Time	Start of the volume reduction period.
End Time	End of the volume reduction period.
Reduction	Volume reduction during the set period (per cent). A higher value means more reduction from the current set level.
Completely off	Check to mute selected speakers during the set period.

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#### 8.11.3 Add Volume Reduction Setting

- 1. Enter a name in the name field
- 2. Select speaker set
- 3. Select start and end time
- 4. Set reduction or "Completely off"
- 5. Click on the green "+" bullet to save the setting, it will be added to the list.

Reduction	Completely Off	
-		0
	L	Ado

#### 8.11.4 Edit Volume Reduction Setting

Click on the edit symbol to the left of the trash can in the row you want to edit. Change the parameter and then click on the disk symbol to save (or on the red cancel symbol if you want to cancel the change).



#### 8.11.5 Delete Volume Reduction Setting

Simply click on the trash can at the extreme right of the volume reduction list.



• Note! Do not enter conflicting Volume Reduction settings, it may result in faults.

#### 8.11.6 Heater Timers

Up to three heater timers (starting a sequence for heating, fuel, engine, and cabin...) can be set for the selected category/vehicle. Enable a heater timer with the corresponding checkbox, set start time and duration, and active weekdays and months.

- The same timer settings are available in the service menu in the driver interface. The last changing of the settings overrides previous settings, regardless of where the changes were made (vehicle or CM).
- Note that the presented settings will not reflect changes made locally in the vehicle.
• Click on the "Save Changes" button (enabled when settings are changed) to save.

Heater timers					
Change	e heater timers for o	category (c-boreal	l-akt)		
Enabled Start Time Duration Weekdays Months			Months		
1	07 🔻 : 00 🔻	02 🔻 : 00 🔻		✓ 1 ✓ 2 3 4 5 6 7 8 9 10 11 ✓ 12	
	00 • : 00 • 00 • : 00 • M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12				
	00 • : 00 • : 00 • : 00 • : 00 • : 00 • : 10 • 00 • 0				
Save Changes You have unsaved changes!					

Header	Explanation
Enabled	Check to enable heater timer
Start Time	Set start time using the menus (HH:MM)
Duration	Set duration using the menus (HH:MM)
Weekdays	Check the boxes for the weekdays the timer is to be active
Months	Check the boxes for the months the timer is to be active

## 8.11.7 Cooling Timers

Up to three cooling timers (starting a sequence for cooling driver compartment and cabin...) can be set for the selected category/vehicle. Enable a cooling timer with the corresponding checkbox, set start time and duration, and active weekdays and months.

- The same timer settings are available in the service menu in the driver interface. The last changing of the settings overrides previous settings, regardless of where the changes were made (vehicle or CM).
- Note that the presented settings will not reflect changes made locally in the vehicle.
- Click on the "Save Changes" button (enabled when settings are changed) to save.

- Coolin	Cooling timers						
Chang	Change cooling timers for category (c-FAC)						
Enable	ed Start Time	Duration	Weekdays	Months			
	00 🗸 : 00 🗸	00 🗸 : 00 🗸		0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10 0 11 0 12			
	00 🗸 : 00 🗸	00 🗸 : 00 🗸		010203040506070809010011012			
	00 🗸 : 00 🗸	00 🗸 : 00 🗸		010203040506070809010011012			
Save	Save Changes Cancel Changes						
н	leader		Explanation				
Enabled		Check to enable cooling	g timer				

Header	Explanation
Start Time	Set start time using the menus (HH:MM)
Duration	Set duration using the menus (HH:MM)
Weekdays	Check the boxes for the weekdays the timer is to be active
Months	Check the boxes for the months the timer is to be active

# 8.11.8 Settings for Category:

In this customer customisation dependent section, you can configure much of the onboard functionality/equipment and system settings.

Separate sections with settings are available:

- Signs
- Audio
- Driver Interface
- Passenger Information
- System Settings
- Heater Settings: Start Limits, Stop Limits, Durations, [general] Settings
- **Remote Outdoor Temperature Providers** (CTS computer with temperatire sensor providing local temperature data.)
- Note! Use the built-in documentation (reached through the "?" marks) for an explanation of each individual setting.

Expand a section and edit/enter the settings. When a setting has been changed but not saved this is highlighted with a blue rectangle. Click on the Save Changes button to save all changes. The Cancel button cancels all changes.

Sattings for category o EAC			
Settings for category: C-PAC			Click to expand a
Signs			settings section
^ <u>Audio</u>			5
<u>Förargränssnitt</u>			
Passagerarinformation			
Passagerarinformation - bältespåminnelse	_		
^ System			
A Heater Start Limits			
A Heater Stop Limits			
V Heater Duration			
Configuration of heater durations. Control the time needed for heating in differe available, otherwise indoor temperatures are used. If empty runs are missing, u Heater start time will be: time of first trip, minus time to first stop, minus heater	nt temperature intervals. Limits f se "Time to first stop" to make si duration for interval X.	or outdoor temperature are used if outdoor temperature is ure heating is done when the bus is to leave the depot.	
Time to first stap (seconds)	1800	2 Devet	
Default Duration (e):	3600		Click the question mark to view a
Interval 1 - Outriger terms	10		description of the specific
Interval 1 - Indoor term	10		setting.
Interval 1 - Invation (e)	3600	2 Cheset	5
merter i Seraen [e].	5000	2 Constant	
Heater duration in seconds.		Lescription	
Interval 2 - Outdoor temp:	0	2 Reset	
Interval 2 - Indoor temp:	0	2 Reset	
Interval 2 - Duration (s):	5400	2 Reset	
Interval 3 - Outdoor temp:	-5	2 Reset	
Interval 3 - indoor temp:	-5	2 Reset	
Interval 3 - Duration [s]:	5400	2 Reset	
Interval 4 - Outdoor temp:	-10	2 Reset	
Interval 4 - Indoor temp:	-10	2 Reset	
Interval 4 - Duration [s]:	5400	2 Reset	
Interval 5 - Outdoor temp:	-10	2 Reset	
Interval 5 - indoor temp:	-10	2 Reset	
Interval 5 - Duration (s):	6000	2 Reset	
Interval 6 - Outdoor temp:	-15	2 Reset	
Interval 6 - Indoor temp:	-15	2 Reset	
Interval 6 - Duration (s):	7200	2 Reset	
Interval 1 - Enabled:	<b>Z</b>	2 Reset	
Interval 2 - Enabled:		2 Reset	
Interval 4 - Enabled:		2 Reset	
Interval 5 - Enabled:	0	2 Reset	
Interval 6 - Enabled:	0	2 Reset	
Y Heater Settings			
Configuration of heater settings			
Ignore indoor temperature when unavailable: 2 Reset			
Demand external power to start heating: 2 Reset			
Demand external power to stay awake: 2 Reset			
A Remote outdoor temperature providers			
Save Changes Cancel Changes			

# 8.12 LIVE (Requires Browser Flash Support)

The present LIVE functions let you access a driver interface and view internal display (TFT) and vehicle positions.

- Note: The functions on this tab are based on browser Flash support. Current standard browsers do not support Flash. I.e. this tab will only work with specific browsers that support Flash.
- When you access the LIVE view from the Vehicle tab, using the LIVE: Remote Driver Display button, the presented driver interface, and map view show the selected vehicle only. You can open the view in a separate window/view it in fullscreen mode with links below the view.
- When the LIVE tab is selected directly, only the map view is presented, showing the latest reported positions of *all vehicles* in the selected partition (operator).

# 8.12.1 Access from Vehicle tab: Selected Vehicle Remote GUI and Position Trail

- 1. In the Vehicles view: Select the vehicle whose position trail you want to see/whose driver interface you want to access.
- 2. Click the LIVE: ... button.

General	Parate -	No active faults		
Name	testyaanConsat-AIC4TmSkyss	NO active faults		
Hardware Id	402012 14021000			
Display Name	Skyss test vagn			
Hardware	AIC4-26			
Fleet	f-tm-demo-skyss	•		
Category	c-skyss 🔻	0		
Time of last download	2018-09-06 12:53:55	Last 7 days (Details)		
Last seen IP address	192.168.2.76	1 VEHICLE-GPS		
System Address	3350249999	1 Gps made a crazy jump		
Latest System Test	2018-03-21 10:27:23 Tests 15, Ok 10, Failed 2, Not Run 3 ( <u>Details</u> )			
Deployment	□ Ignore In aults □ Ignore in statistics □ Exclude fro <mark>m</mark> Its4mobility			
Deployment Note	testvagn			
Save Changes Cancel Changes           New Vehicle         Clone Vehicle         Delete Vehicle         Diagnostics Card         Installation Card         All installation cards				
-Toole				
Request Version Check Request Report LIVE: Remote Driver Display				
- Screenshots				
Driver Display Destination Sign Interior Passenger Display				

3. **The LIVE view tab is opened**, showing the driver interface (it may take a few seconds to load), and below, the current internal display (if available) and a map with a vehicle trail showing the latest vehicle positions - reported during the past 10 minutes (configurable time).

• Note that the driver interface is really "live" and interactive – you can click on the soft buttons, make selections in the menus, etc., just like on the touch screen in the vehicle – and of course, see what the driver does with the interface - in almost real-time.

See the separate driver manual for information about driver interface functions.



When you select the LIVE tab directly, only the Map view will be shown. The last reported positions of all vehicles in the fleet (partition) are plotted on the map.



# 8.13 Fault Management

The Fault Management view can, depending on configuration, consist of up to three separate views: The basic Overview view showing the latest faults over the last 30 days, the Active view, showing all active faults, and an APC view, available in systems with APC-functionality.

Overview Vehicles Installation Flee	ets Categories Deliveries Resources	Reports Parameter Groups Co	mmon Settings InfoText Nova Bu	s LIVE Fault Management Editors		
Overview Active	APC Overview					
Faults Counts last 3	Faults Counts last 30 days					
Alarm Filter						
□Tell Tales □J1939 □J	11587					
	Fau	ult Code Distribution				
1051 VEHICLE-ODOMET	ER: 18 (morf:)					
753 PROCESS-CRASH 711 VEHICLE-GPS:19 (g	ED (flashx11):1 (flashx11:) gpspublisher:)					
539 PROCESS-CRASH 463 PROCESS-CRASH	ED (xts):1 (xts:) ED (xfree86):1 (xfree86:)					
136 PROCESS-FAILED 133 RESOURCE-LIMIT-	(xts):2 (xts:) ERROR (mr::VmRSS):9 (hardwaremonitor:mr:	VmRSS)				
115 VEHICLE_DOOR_S 105 VEHICLE-DEPOT-U	IGNAL_OPEN_WHILE_DRIVING:82 (signalref INREACHABLE:23 (ConnectionManager:10.22	liner:) (4.9.132)				
104 PROCESS-CRASH 96 INT-PASSENGER	ED (signalrefiner):1 (signalrefiner:) -DISPLAY-UNREACHABLE (192.168.0.40):78	(Connectio				
65 PROCESS-CRASH 47 Vehicle panic button	ED (knopflerfish): 1 (knopflerfish:) shorted:68 (panicalarmhandler:)					
43 VEHICLE-SIGN - a	ddress :21 (signmanager:custom(lateral.top://	192.168.0.5				
Fault count per nod	le last 30 days					
Filter Fault Code All	1			1_40 / 355		
nems per page: 40		<b>-</b>		1-407 355		
Alarms -	Vehicle	First Alarm	Latest Alarm	LastCom		
2029	testvagnConsat-AIC41mSkyss	2021-02-12 10:11:14	2021-03-12 10:02:15	2021-03-12 10:08:20		
103	3350-387141	2021-02-12 15:18:11	2021-03-09 10:07:14	2021-03-12 10:08:28		
50	3350-361479	2021-02-12 14:25:50	2021-03-12 05:00:55	2021-03-12 09:46:20		
52	3350-387149	2021-02-13 21:45:49	2021-03-12 07:02:30	2021-03-12 10:08:26		
48	3350-248588	2021-02-20 20:55:24	2021-03-01 10:06:51	2021-03-12 08:05:57		
43	3350-377317	2021-02-14 17:59:27	2021-03-11 21:10:18	2021-03-12 10:08:28		
39	3350-377424	2021-02-12 12:24:19	2021-03-05 15:16:05	2021-03-12 10:07:46		
27	<u>3350-387004</u>	2021-02-16 06:52:59	2021-03-12 08:16:16	2021-03-12 09:05:17		
26	<u>3350-387201</u>	2021-02-17 17:31:42	2021-03-12 09:25:15	2021-03-12 09:25:25		
23	3350-387208	2021-02-15 06:33:27	2021-03-11 20:44:46	2021-03-12 10:08:21		
21	3350-387051	2021-02-15 05:12:00	2021-03-07 22:29:05	2021-03-12 09:36:02		
21	3350-377301	2021-02-15 05:46:55	2021-03-10 05:12:17	2021-03-12 09:22:41		
20	3350-387155	2021-02-14 01:03:43	2021-03-11 11:23:31	2021-03-12 10:08:20		
17	3350-387202	2021-02-15 06:07:33	2021-03-09 15:49:27	2021-03-12 10:08:32		
17	3350-387210	2021-02-17 09:30:29	2021-03-11 16:33:27	2021-03-12 10:08:32		
17	<u>3350-387147</u>	2021-02-22 14:51:09	2021-03-11 07:25:22	2021-03-12 10:08:25		
16	3350-387059	2021-02-15 04:38:31	2021-03-09 20:23:30	2021-03-12 10:08:20		
16	3350-387020	2021-02-15 04:57:27	2021-03-08 05:25:21	2021-03-12 09:32:25		
16	3350-377406	2021-02-12 14:44:05	2021-03-11 06:38:26	2021-03-12 10:08:16		
15	3350 387075	2021-02-15 04:40:03	2021-03-11 08:18:51	2021-03-12 10:07:49		
15	3350-377337	2021-02-15 04:56:34	2021-03-00 00:57.20	2021-03-12 03:41:23		
15	3350-387205	2021-02-12 16:56:08	2021-03-08 15:41:25	2021-03-12 09:13:55		
15	3350-387044	2021-02-12 20:13:54	2021-03-11 20:45:50	2021-03-12 10:08:28		
14	3350-387204	2021-02-14 14:27:52	2021-03-11 06:45:53	2020-04-22 14:53:11		
14	<u>3350-377333</u>	2021-02-13 20:44:26	2021-03-08 05:12:40	2021-03-12 08:54:55		
14	3350-377412	2021-02-12 21:30:03	2021-03-11 08:47:47	2021-03-12 10:08:08		
14	3350-387152	2021-02-13 11:13:11	2021-03-10 05:18:03	2021-03-12 08:53:32		
13	3350-387052	2021-02-16 10:10:18	2021-03-11 12:17:09	2021-03-12 10:07:33		
13	3350 361440	2021-02-15 07:23:12	2021-03-12 07:17:23	2021-03-12 09:52:04		
13	3350-301440	2021-02-10 19:00:32	2021-02-10 14:37:20	2021-03-12 03:01:49		
13	3350-387148	2021-02-13 23:03:08	2021-03-12 08:00:00	2021-03-12 09:29:09		
13	3350-377322	2021-02-12 14:57:50	2021-03-12 05:37:13	2021-03-12 08:47:34		
13	3350-387203	2021-02-13 07:22:21	2021-03-10 13:47:19	2021-03-12 10:08:19		
	0050 007000					

#### Overview section:

A pie charts and numerical information shows the fault code distribution the last 30 days.

Filter checkboxes for including Telle Tales, J1939 and J1587 faults.

Fault code distribution (list sorted with most common fault on top).

Fault Count List, last 30 days:

Here, all vehicles are listed with the vehicle with the most faults the last 30 days sorted on top. You can filter and sort the list to find the needed information quickly.

#### Fault Code Filter

Click on the filter field arrow to select one specific fault type. You can also type in the field to only get matching "autocomplete" filter alternatives listed below.

To return to seeing all fault types, open the menu and select the top "All" item.



### List Description

Label	Explanation
Alarms	The number of alarms logged in the last 30 days
Vehicle	Vehicle number (link to vehicle tab)
First Alarm	A timestamp indicating when the <b>first</b> alarm was logged during the period (last 30 days)
Latest alarm	A timestamp indicating when the <b>last</b> alarm was logged during the period (last 30 days)
Last Com	A timestamp indicating when the vehicle last communicated with the CM.

# 8.13.2 Active

The overview (tab) provides a quick summary/overview plus more detailed information about each active fault, including a short fault-type synopsis. You can, of course, sort the fault list and use the column filters to focus on particular faults/vehicles, etc., see below.



### List Description

Label	Explanation	
Vehicle/Sign	Vehicle /sign name/number	
	Faults can have these severity levels:	
	Critical - A fault that will <i>seriously impair system performance</i> . It should be addressed/corrected as soon as possible.	
Severity	Major - A less critical fault that will degrade system performance or disable less crucial functionality.	
	Minor – Not critical "fault" affecting some system functionality/performance, for example, an external sign controller is overriding the internal sign control.	
	Warning – A less serious problem	
Fault Code	The "fault type name".	
Service	The service/system not working properly.	
Synopsis	A short description of the fault.	
Activated	Timestamp showing when the fault was registered (in the vehicle/sign system)	

Label	Explanation
LastCom	Timestamp showing when the vehicle/sign with the fault last communicated.

• For a complete list of all vehicle faults, see Appendix B

# 8.13.3 APC Overview

The APC Overview view presents all vehicles with APC systems and any active APC faults. An overview pie chart shows how many vehicles have active APC faults compared to the total number of APC-equipped vehicles in the partition.

Tip: This view can also be used as an "APC Vehicle list" as only APC-equipped vehicles are listed.

			APC Fault Status:	
APC Vehicles Overview This table contains all vehicles with APC installed.		APC Fault Status	The pie chart and numerical information shows the number of vehicles with active APC faults, compared to the number of APC- equipped vehicles in the partition.	
Items per page: 40 Vehicle	Last Communicated	Faults	Listed vehicles/total APC vehicles	
	filter	Inco.		
3350-100001-testrig1	2013-06-14 11:11:58			
3350-111223				
3350-248612	2013-07-09 14:31:30			
3350-248615	2013-07-09 14:36:56			
3350-demo-suitcase	2013-04-08 14:45:22			
3350-niclasrigg	2013-04-19 16:13:23			
3350-niclasrigg-pc	2013-04-19 16:13:23			
Consat-AIC3-Testrigg	2013-09-16 12:44:25			
labAIC3TmSkyss	2013-01-25 07:34:22			
skyssLab-AIC3	2013-02-08 15:20:15		Active APC fault w. description.	
TannazA 4Skyss	2013-09-04 08:38:2			
testvagnConsat- AIC4TmSkrss	2014-12-12 14:49:07	VEHICLE-APC-DOOR-COUNTS-NOT-UPDATED-ON-JOURNEY (#all#:2), VEHICLE-APC-DOOR-COUNTS-NOT-UPDATED-ON-JOURNEY (#all#:1)	Click on fault to go to the Fault Management	
testvagnCovsat- AIC4TmSkyss-clone			Overview sub tab, with list filtered to show only the active faults of this particular vehicle.	
Pages: 1				
Save table as rev		1-13 / 13		
DUTC CODIC 02 15Y				
APC-equipped v	vehicles.			

Click on name to go to the vehicle tab with vehicle selected.

### List Description

Label	Explanation
Vehicle	Vehicle name
Last Communicated	Timestamp showing when the vehicle last communicated with the Configuration Manager system.
Faults	Active fault(s), including a short description.

#### • For a complete list of all vehicle faults, including APC faults, see Appendix B

### Filter the list

If you only want to see information relevant to you, you can filter the list using one or more column filters. Only matching rows will be included in the presentation.

Vehicle
AIC4
testvagnConsat- AIC4TmSkyss
petter- AIC4TmSkyss
petter- AIC4TmSkyss
petter- AIC4 <sup>T</sup> mSkyss

### Sort the list based on a selected column

To sort the list after any of the columns, simply click on the column header. To reverse the sorting order, click again on the header.



### Save as CSV File

You can easily save the (filtered) list as a CSV file by clicking on "Save [the] table as csv" under the list.

Save table as csv	21-40 / 605
Current Operator: Skyss 💌 Current Language: Auto 💌	
	Conversity Converting and all Distan Descound
Do you want to open or save Vehicles Overview_20140630_122230.csv from 192.168.140.145?	Open Save 🔻 Cancel 🗙

# 8.14 Editors

On this tab, you will find editors for specific resources.

# 8.14.1 Phonebook (Resource) Editor

Use the Phonebook editor to view/edit selected phonebook resources. A phonebook resource is simply a list of names with corresponding phone numbers. These numbers can be called by the drivers by direct selection in the Phone Book menu in the driver interface.

**Note**: Resources like phonebooks are still *administered* (edit resource name, clone, delete unused...) on the Resources tab. The Phonebook editor is for editing the *content* of a selected phonebook resource.

Overview Vehicles Installat Phonebook Editor	ion Fleets Categories Deliveries Resources Re	ports Parameter Groups	Common Settings InfoText	Nova Bus LIVE Fau	It Management <i>Editore</i>			
Select phonebook	( resource: phonebook							
Croate new phonete	ok namo:	Clana						
Create new phonebo		Cione						
phonebook								
Savo Changos	ancol Changes							
Items per page: 200					1-29 / 29			
Order 🔺	Name	Number	Divider	Confirm				
filter	filter	filter	filter	filter	Commands			
0	SOS	112	Ealeo	True	Edit Doloto			
1	Karlskrona	112	Тпе	False	Edit Delete			
2	Trafikledning Karlskrona	0767629939	False	False	Edit Delete			
3	Trafikledning Karlskrona	0455308507	False	False	Edit Delete			
4	Växel Karlskrona	0455308500	False	False	Edit Delete			
5	Biljettmaskiner/Redovisning Tommy Gustavsson	0455308505	False	False	Edit Delete			
6	Driftledare Peter Roth	0767629921	False	False	Edit Delete			
7	Trafikchef Mats Knutsson	0767629920	False	False	Edit Delete			
8	Trafikförman Roger Romin	0767629923	False	False	Edit Delete			
9	Trafikförman Johan Persson	0455308506	False	False	Edit Delete			
10	Karlshamn		True	False	Edit Delete			
11	Växel Karlshamn	0454304100	False	False	Edit Delete			
12	Driftchef Joakim Ekevald	0454304101	False	False	Edit Delete			
13	Trafikförman Sven-Ove Larsson	0454304102	False	False	Edit Delete			
14	Skolskjutssamordnare/Beställningar Ulf Nelsén	0454304103	False	False	Edit Delete			
15	Driftchef Joakim Ekevald	0767629940	False	False	Edit Delete			
16	Trafikförman Sven-Ove Larsson	0767629941	False	False	Edit Delete			
17	Skolskjutssamordnare/Beställningar Ulf Nelsén	0767629942	False	False	Edit Delete			
18	Olofström		True	False	Edit Delete			
19	Växel Olofström	0454304123	False	False	Edit Delete			
20	Trafiktörman Aage Agewall	0767629872	False	False	Edit Delete			
21	Trafikledare Christian Wilén	0767629874	False	False	Edit Delete			
22	Tratikledare Marie Nilsson	0/6/629873	False	False	Edit Delete			
23	Solvesborg	0.150.10.100	True	False	Edit Delete			
24	Vaxel Sölvesborg	045619420	False	False	Edit Delete			
25	I ratiktorman Kjell-Ake Svensson	076/629949	False	False	Edit Delete			
26	Konneby		Irue	⊢alse	Edit Delete			
27	Växel Ronneby	045712620	False	False	Edit Delete			
28	I ratiktörman Carina Särbom	0767629936	False	False	Edit Delete			
					Add			
Pages: 1 Save table as csv					1-29 / 29			
Save Changes C	ancel Changes							

#### Section Dividers

Divide the phone book into sections to simplify the number selection for the drivers.

To create a section break, enter a Section Header without phone number and set the divider to "true" for this entry, see example to the left.

#### List Description

Label	Explanation
Order	The order items are to be presented in the driver's phonebook menu.
Name	Contact Name, or Section Header
Number	Contact Phone Number (excluded for section header)
Divider	List divider true (on)/false (off) – typically used for Section header entry, see examples in the screenshot on the previous page.
Confirm	If the selected number is to open a confirmation popup ( <b>true</b> ) or not ( <b>false</b> ). Set to true to prevent calling a number by mistake, for instance, SOS

### Select Phonebook Resource (for viewing/editing)

Use the top Select phonebook resource menu to select which phonebook resource to view/edit.

phonobook zororotz.			phonebook phonebook-20161012	Select phonebook resource:
Create new phonebook, name:	ie	create Clone	h3 Cr	Create new phonebook, name:

#### Clone or Create Phonebook Resource

- Enter a new name and click on Create to create a new (empty) resource.
- Select a phonebook resource, enter a new name for the clone, and click on Clone to clone the selected resource.

#### Add Item to Phonebook resource

To add an item to the list:

1. Enter order number, name, number, divider (true/false), and confirmation (true/false), as needed in the "Add Section" at the bottom of the list.

1			[		<b>T</b>	
L	1	SOS	112	Faise	True ×	Add
L	Pages: 1					
L						1-27 / 27

2. Click on "**Add**" to add the item to the list. The list will be highlighted to indicate that it has been edited, but not yet saved.

1.12		Connor	0,00,01000			
L	1	SOS	112	False	True ×	<u>Add</u>
L	Pages: 1	•				
IL.						1-27 / 27

3. Proceed to make additional changes to the phone book, or save your changes by clicking on "Save Changes".

phonebo	JOK	-20100920		
Save Changes Cancel Changes Unsaved changes				
Items per page:	200			
Order	•	Name	Number	Divid
filter		filter	filter	filter
n/ter		Inter	Thter	Tilter

**Note:** If you enter an order number that is in use, the existing item with this number will be moved one step down, i.e. have is order number increased by 1. You can thus place your new entry anywhere on the list.

### Edit Item in Phonebook Resource

To make changes to an item in the phone book:

1. Click on "Edit" on the corresponding row, and the item will be placed on top of the list. The contents of all cells can now be edited.

	Order 🔺	Name	Number	Divider	Confirm	0d-
	filter	filter	filter	filter	filter	Commands
	0	SOS	112 ×	False	True	Update Cancel
_	1	KI T trafikledning	049121596	False	False	Edit Delete

- 2. Click on "Update" to update the item. The list will be highlighted to indicate that you have made changes but have not yet saved them.
- 3. Save your changes by clicking on the **Save Changes** button.

l	Save Changes	Can	icel Changes	Unsaved changes
l	Items per page:	200		
	Ordon		N	

#### Delete Item, in Phonebook Resource

1. Click on "Delete" on the corresponding row. The item will be deleted from the list (but the change will not take effect until you have saved your changes).

10				·		
	27	Boz	012345678	False	True	Edit Delete
						∆dd

2. Click on the **Save Changes** button.

Save Changes	Cancel Changes	Unsaved changes
Items per page:	200	
~ 1		

#### Save as csv

You can save the displayed phonebook resource as a csv file by clicking on the save table as csv (and browsing the location you want to put it etc.)



# 8.15 Importers

On this tab, you will find simple functions for importing Consat-specified report sheet configuration Excel files and vehicle entity data. (**Pre-/post-op checks**, and deviation cause, are currently supported files).

The **deviation report sheets** specify the deviations and available causes presented to the drivers when deviations are detected. (The resulting deviation priority is also configured in the file.)

The **vehicle entity** file describes the vehicle (type) "entities" data available to CTS, like low floor, audio system info, wheelchair equipment, toilet, doors... fuel tank, and the settings for harsh braking, overspeed, etc.

### 8.15.1 File Templates

- The Deviation Cause and (pre-/post op) Checklist Excel templates are available on your Consat system portal, see below for how to find them.
- Vehicle EnityData templates are available in the same location

CONSAT			ITS4DOCS Hore Manade Training Guides Templates		ITS4DOCS	
Welco	me to I4MT	EST5	Consat Telematics System its/doos is an online resource for all manua Telematics System. Book to CTI Fundat	Documentation in, guides and templates evaluative to the users of the Conset	Factor of sensing Start (Ar 2 on thir) Child tell Jonana Comparise and Japa	로 nu 로 nu 로 nu
FRAMIC STUDIO	90-YWRE CTHI DURATON NAVASCEP Druktepot	WED-DATED   WHITE APPLICATEN (K.T.D.M.)			Contra Animatoriane Calander Derenan Inger Calander Hannes Andre Calander Hannes Rater Temptone Frag	100 100 100 100 100 100
ors boolwayeshow [feeders]	Pergilatio (Sound)	reet management Invet	MARKS	TRANS MUTURE CUES	Folder Stangs Taxs verfählt hom Taxs verfählt nom Tavet Brank Mann, Smeller and Exercise Tavet Brank Mann, Smeller and Exercise Manne Stang Saze	2 m 2 m 2 m 2 m 2 m
NERAMONEEMEN STANS (over)	TRAFFIC LOS DESORT (Vane)	"Xein Eeginy (w.ht)	TAPACE -		Construction Service	
ROTHING JPI JPI	segions (vool					

- Note that Report Sheet files for Waste management reporting are not [yet] supported.
- Note: All imported files must be validated before importing. Therefore, the import is performed in two stages.

# 8.15.2 Import Excel Report Sheet/Entity Data file, Step-By-Step



- 1. Select the type of file to validate (and then import). ReportSheets for Pre/Post Op Checks and Deviation reports and Vehicle Entity for, well, vehicle entity files.
- 2. Click on **Browse** to browse and select the file.
- 3. Click on **Validate** to run a validation check of the file (mandatory). A red warning text will show if the file is not valid. The Output log shows the validation details.
- 4. If no red warning text is displayed, the validation is ok.
- 5. Browse to and select the file again and now click on **Import** to import the file to the CM.

# **9** Appendix A: Customer Specific functionality

# 9.1 Nova Bus Tab/View

This tab provides functions for administering software (resources) on external equipment: [Axiom] sign controllers and electrical system (BEA ECU) nodes, in Nova vehicles.

Administering resources for external equipment is much like handling resources for the Consat vehicle/sign computers, although the extra step of distributing and communicating with the external equipment adds a little to the complexity of status overviews, etc.

The software can thus be distributed and be available to the external equipment onboard but for reasons beyond Consats control its usage may be delayed, or information about its status in the external hardware may not be available.

### Select resource overview menu

In this menu, you select the hardware group whose status you want to view in the list/graphs below. (MID Software package is for BEA ECU:s and Axiom Sign database is for, well, Axiom signs.)

With the desired resource selected in the top menu, the current status for all such nodes in the partition is displayed below. Two pie charts with numerical sections/colour code descriptions below show [Software] sync status and Equipment [software] status. The latter indicates if the target equipment is running the correct/latest software distributed.

The table below can be filtered using the filter section including status filters (checkboxes) to the left and a free text filter to quickly find a specific vehicle/BEA ECU/Sign controller, etc.



#### • Click on the Save table button to export the table in Excel format.

Label	Description
Name	Vehicle Name/number
Assigned	Assigned software package
Active	Software package currently in use

Label	Description
	active: The assigned resource is in use.
	pending: The assigned resource has been downloaded but is not yet in use.
	downloading: Download in progress.
Sync Status	download failed: An assigned download has failed.
	awaiting download: The assigned resource awaits download.
	awaiting [the] first download: An initial resource awaits download.
	Resource recipient (hw type).
	Colour-coded cells – see Equipment status pie chart description above.
	Up to date: Running the latest software
Equipment	In progress: Updating
	Version mismatch: HW software version not matching the latest, available, software
	No version info: HW is not communicating its sw version.
	Not yet communicated: HW has not yet communicated with the Consat system.

On this tab resource groups, for vehicles w specific external hardware, are managed. All vehicles in a group are managed together to receive software versions for their hardware.

Overview Vehicles & Overview R Select resource	stallation Fleets Categories esource Groups Bus Setting grOUp: rg-2018-hybrid-drive	Deliveries Resources Reports Parate n alline-control-BEAsw	neter Groups Common Settings Nova D	us LIVE	Fault Management	Editor		manage/overview with below tools/table.
Resource type Resource New Group	MID Software Package FB_STM4HE_M_07_H Delete Group Selec	_T1 v	har .				 	Group management section. Use the buttons to create
Nembers Last Name Successful Download	Last Communication	Assigned	Active	Sync Status	Number of memb	ers: 8		[new] group, delete group, select members (vehicles) for selected group, and
34702- 40003 11:54:57	2021-09-05 18:58:55(NVS)	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	active	STM4HE_M_07	)202(		move members between groups.
34702- 40024 24 09:01:52 2020-07- 24 09:01:52	2020-10-15 21:08:00(NVS)	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	active	STM4HE_M_07			The resource type and
34702-25 40028 25 11:06:37	2021-09-04 02:44:36(NVS)	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	active	STM4HE_M_07	)202(		resource menus assigns a resource to the above
34702-01 40029 07:22:40 34702-2021-08-	2021-09-03 20:06:51(NVS)	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48 FB_STM4HE_M_07_H_T1()2020-	PB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48 FB_STM4HE_M_07_H_T1()2020-	active	STM4HE_M_07	)2021		selected group.
40055 25 15:31:33 34702-2021-08- 30	2021-09-03 20:31:32(NVS) 2021-09-05 03:39-50(DSXNC_UDLOAD)	06-10 05:36:48 FB_STM4HE_M_07_H_T1()2020-	06-10 05:36:48 FB_STM4HE_M_07_H_T1()2020-	active	STM4HE_M_07	)202(		
34702- 2021-08- 27 40219 10:06:13	2021-09-06 00:55:21(NVS)	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	00-10 00.30.40	awaiting first	STM4HE_M_09	-		
34702- 99991 09:52:43	2021-09-03 18:50:58(NVS)	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	FB_STM4HE_M_07_H_T1()2020- 06-10 05:36:48	active				

You can create, delete groups, and manage their members (vehicles).

### Members [Table]

In this table, the members of the above-selected resource group are listed with essential status information.

Label	Description
Name	Vehicle Name/number
Last Successful Download	The time stamp showing the last successful sw download
Last Communication	The time stamp showing when the vehicle last communicated with the CM
Assigned	Assigned software package
Active	Software package currently in use
Sync Status	active: The assigned resource is in use. pending: The assigned resource has been downloaded but is not yet in use. downloading: Download in progress. download failed: An assigned download has failed. awaiting download: The assigned resource awaits download. awaiting [the] first download: An initial resource awaits download.

Select resource group to

Label	Description
Equipment	Resource recipient (hw type). Up to date: Running the latest software In progress: Updating Version mismatch: HW software version not matching the
	No version info: HW is not communicating its sw version. Not yet communicated: HW has not yet communicated with the Consat system.

Use the Bus Settings tab to set basic system settings for all vehicles in a category or a selected vehicle in a category. The system settings may vary.

- Select Category in the Category menu and either (All) or a specific vehicle in the vehicle menu.
- Click on a question mark to view a description of that setting

Overview	Vehicles	Installation	Fleets	Categories	Deliveries	Resources	Reports	Parameter Gr	oups	Common Settings	Nova Bus	LIVE	Fault Management	Editors
Ove	Overview Resource Groups But			Bus Settin	Igs									
Se	ect cope	9												
Sele	ct scope fo	or setting (al	l in a ca	tegory or a	specific ve	ehicle)								
Cat	Category C-STM-2018-AIC3 V													
Veh	icle	(All)			~									
Set	tinas for	categor	v: c-S	TM-2018	-AIC3									
~	System S	ettings												
	Configura	tion of syste	m settir	igs.										11
	Default la	nguage:		Eng	lish			<b>v</b> ?		ecet				
	Time zon	e:		CAN	ADA EA	STERN		▶ ?		eset				
	Service p	assword:		133				?		eset				
	Axion put	olic messag	e passw	ord:				?	R	eset				
	Assignme	ent settings	passwo	rd:				?	R	eset				
														- 1
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• Save changes made with the Save Changes button.

Privileged

The manual sign resource is configured using an Excel file template. Separate tabs in the template file configure signs selectable in corresponding menus in the driver interface.

• For basic usage, skip the two first Tabs in the Excel Document.

# 10.1 Excel Tab: Special signs

Manual signs specified on this tab will be selectable from the "Special signs" section in the driver UI.



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Spe EXAMPLE / INS		EXAMPLE / INSTRUCTION	EXAMPLE /	EXAMPLE / INSTRUCTION	EXAMPLE / INSTRUCTION	EXAMPLE /	EXAMPLE / INSTRUCTION	EXAMPLE / INSTRUCTION	
What to display the left of the d blank if no line	on line signs and to estination signs. Leave info wanted.	Will override the line key on destination signs. Leave blank if not needed.	INSTRUCTION 8 bit rgb color, hex (0xHHH) or decimal	8 bit rgb color, hex (0xHHH) or decimal	What to display on the destination signs.	INSTRUCTION Destination sign, Info on second row.	Destination signs, info here will be displayed on a new "page", alternating with page 1.	Unique sign code for external sign controller	
Line		Line Extended	Line Color	Line Background Colq	Destination	Dest Row 2	Dest Page 2	Sign Code	-
					Garage				
					Not In Service				
					Training				1
[[school]]					School Bus		West End Primary		
[[airport]]					Airport Express	Terminal 2			
[[heart]]			0xFF0000	OxFFFFFF	Take care!				
[[wrench]]					In need of service!				
[[soccer]]					Gothia Cup		We [[heart]] soccer!		
	(A)								

Check the tab contents above, and column descriptions below, and view the resulting signs in the following section.

Column	Explanation
Line	Will be shown where the line number is normally displayed. Can be left out.
Line Extended	Will replace the line on destination signs (not on small line only signs)
Line Colour	The foreground colour of the line presentation

Column	Explanation
Line Background Colour	The background colour of the line presentation
Destination	
Dest Row 2	Sub destination, will be displayed on row 2
Dest Page 2	Will be displayed on page 2 (alternating with page 1)
Sign Code	Use with external sign controller (not used with full CTS sign integration)

#### 10.1.1 **Examples:** Special signs Back igns Charter Automatic sign Garage Charter Previous signs Not In Service Special signs Training [[airport]] Airport Express, Terminal 2 Select from list [heart]] Take care! [[school]] School Bus, West End Primary [[soccer]] Gothia Cup, We [[heart]] socc → In need of servic [[wrench]] In need of service! 10 can West End Primary chool Bu Gothia Cup 虎印 We soccer **\$.**Q)

# 10.2 Excel Tab: Sign List

Signs specified here will be selectable from the "Select from list" section in the driver UI. (Note: In this section, signs from the traffic database may also show up, if configured.)

Signs Back	Select from list Lookup
Automatic sign	6 West End
Previous signs	6 West End via Downtown
- · · · ·	7 North End
Special signs	10 Transit Terminal, City Center
Select from list	13 Copper Cliff
	142 Grandview, Express
	BLUE Express
	GREEN Express
<b>RED</b> Express	RED Express, Free ride for all!, Free ride

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113	*	: ×	$\sqrt{-f_X}$														~
A	E C		D		E	F		G			н			1	1		٠
2	Sig	n Li	st														
4	Line 👻	Line Exter	nded 🔻	Destinat	ion 🔻	Dest2	*	via	Ψ.	Public Msg				*			
5	0			West End													
7	0			North End	4			Downtown									
8	13			Conner Ci	, liff												
9	142			Grandvie	N	Express											
10	10			Transit Te	rminal	City Cente	r										
11	GREEN			Express													
12	BLUE			Express													
13	RED			Express						Free ride for all!							
14 15 16 17 18 19 20 21																	
4		Help Ke	ywords S	pecial Signs	Sign Li	ist Line (	olour	Color	$(\div)$							Þ	
Klar											<b>H E</b>		-		+	100 %	

Check the tab contents above, and column descriptions below, and view the resulting signs in the following section.

Column	Explanation
Line:	Will be shown where the line number is normally displayed. Can be left out.
Line Extended:	Will replace the line on destination signs (not on small line only signs)
Destination:	
Dest2:	Sub destination, will be displayed on row 2
via:	Will be prefixed by system configured via-word and displayed on row 2
Public Msg:	Will be displayed on page 2 (alternating with page 1)

# 10.2.1 Examples:



# 10.3 Excel Tab: Line Colour

This tab does not specify selectable manual signs, it maps line colours with lines. So, if you specify line foreground and background colours for line X, then line X will always be displayed using those colours. Regardless of manual or automatic sign control.

# 11 Appendix C: Vehicle Faults

• Numbers within brackets show message variables.

Fault	(Synopsis), Description	Proposed Repair Action
PROCESS-CRASHED ({0})	The process {0} has crashed	Check the log file for additional information. Check the configuration file for errors. Verify that {1} is the correct binary.
PROCESS-FAILED ({0})	The process {0} has failed to start	Check that {1} is the correct executable. Check the permissions on the executable. Check the existence and permissions of the configuration file. Check the log file for any additional information on the problem.
IP_HOST_UNREACHABLE	The host {0} is unreachable	
SERVICE_UNREACHABLE	The service {0} is unreachable	
TCP_CONNECT_FAILURE	Could not connect to the service "{2}" at "{0}:{1}".	Verify that the service "{2}" is running. Check the hostname ("{0}")and port number ("{1}") of the service
SERVICE_UPDATE_MISSING	The service {0} {1} at {2} (version {5} system address {3}:{4}) is no longer sending updates	Verify that the host {2} is reachable. Verify that the service {0} {1} is running. Restart the service if necessary
RESOURCE_LIMIT_ERROR	RESOURCE-LIMIT-ERROR ({0}) </td <td>Resource {0} has been outside interval {1} and {2} for {3} seconds.</td>	Resource {0} has been outside interval {1} and {2} for {3} seconds.
DATABASE-ERROR ({0})	Database {0} has malfunctioned	
DATABASE_UNREACHABLE	The {2} database, of the type {3}, on {0} is unreachable.	
CORBA_SERVER_UNREACHA BLE	The {2} corbaserver, on {0} is unreachable.	
WEB_SERVICE_UNREACHABL E	Webservice "{0}" ({1}) is unreachable	
SYSTEM_TIME_ERROR	The time on {0} is wrong with {1} seconds	
PROTOCOL_ERROR	The protocol limit {3} was exceded {2} on channel {0} with the interval length {1},	

Fault	(Synopsis), Description	Proposed Repair Action
INFORMATION_DISPLAY_UNR EACHABLE	The information display is unreachable	
URL_UNREACHABLE	The URL is unreachable	
DETECTOR_FAILURE	The detector fails	
VEHICLE_ODOMETER	No odometer pulses were received even though the vehicle is moving according to GPS	Run the test program in the service menu. Check electrical connections
VEHICLE_GPS	No NMEA input from GPS seems that the GPS device has failed or is not correctly connected	Run the test program in the service menu. Check electrical connections
VEHICLE_TIC1R	No contact with the TIC1R device	Run the test program in the service menu. Check electrical connections
VEHICLE_SIGN	No contact with sign {0}, on address {1}, using protocol {2}.	Run the test program in the service menu. Check electrical connections.
VEHICLE_GATEWAY_UNREAC HABLE	No contact with a gateway on the local network.	Run the test program in the service menu. Check gateway and network settings
VEHICLE_DEPOT_UNREACHA BLE	No contact with remote depot system	Run the test program in the service menu. Check wireless communication device
VEHICLE-FARE-BOX	No contact with Farebox unit	Run test program in the service menu
VEHICLE-APC	No contact with APC (passenger counter) system	Run the test program in the service menu. Check connections
VEHICLE_MODEM	No contact with the modem	Run the test program in the service menu. Check connections
VEHICLE_CAN	No contact with CAN bus	Run the test program in the service menu. Check connections
VEHICLE_J1708	No contact with the J1708 bus	Run the test program in the service menu. Check connections
VEHICLE_DST	Invalid checksum detected in DST(Data parameter set). </td <td>Please reprogram the DST</td>	Please reprogram the DST
VEHICLE_LAMP_AND_FAULT_ STATUS	Driver cluster fault indicator status	See the Volvo service manual for detailed information.

Fault	(Synopsis), Description	Proposed Repair Action
	Fault level: {0} ["alarm"->red lamp, "warning"->yellow lamp, "info"->info lamp, "clear"->no lamp] Sending MID: {1} Fault PID/PPID/SID/PSID: {2} Fault type: {3} FMI: {4}	
VEHICLE_J1587_FAULT	Fault level: {0} ["alarm"->red lamp, "warning"->yellow lamp, "info"->info lamp, "clear"->no lamp] Sending MID: {1} Fault PID/PPID/SID/PSID: {2} Fault type: {3} FMI: {4}	See Volvo service manual for detailed information
VEHICLE_BEA_FAULT	Fault Number: {0} ECU Address: {1} FMI: {2} Occurrences: {3} Group Mask: {4}	See Volvo service manual for detailed information
VEHICLE_J1939_FAULT	Spn: {0} Source Address: {1} FMI: {2} Occurrences: {3}	See Volvo service manual for detailed information
VEHICLE_FMS_TELL_TALE	ld: {0}	See Volvo service manual for detailed information
VEHICLE_VERSION_REQUEST _MISSING	Missing version request for node {0}	Verify that the node is in service and if so diagnose the computer/network.
	Node: {0} Last request: {1} Threshold: {2} System address: {3} Hwid: {4} Software: {5} Resources: {6}	
VEHICLE_CUSTOM_FAULT	Generic FMS condition Condition: {0} Current Value: {1}	
APC_NO_DATA_AVAILABLE	APC data not received from vehicle	
	Last successful upioad. (0)	
H_FAILURE	an external system	
	No data unleaded from the	
UPLOADED	vehicle since the threshold	
	Node id: {0} Last successful upload: {1} Upload pattern: {2}	
TRAFFIC_MEASUREMENT_LO W_FLOW	Få fordon har passerat slingan (VT) Det har passerat {4} över slinga {0} med system-adress {1} namn {2} {3} mellan {5} och {6}.	

Fault	(Synopsis), Description	Proposed Repair Action
LOOP_ERROR	Det har detekterats fel på slingan. Slinga {0} med system-adress {1} namn {2} {3} har .	
MR_SYNC	Msgrouters are not in sync. Msgrouter {0}:{1} and {2}:{3} not in sync	
VEHICLE_DATA_ERROR	DATA-ERROR ({0}) Process "{0}" has detected data error on data source "{2}" with value "{3}" for vehicle "{1}"	
VEHICLE_DOOR_SIGNAL	VEHICLE-DOOR-SIGNAL No input from the door sensor. It seems that the sensor has failed or is not correctly connected	Run the test program in the service menu. Check electrical connections
VEHICLE_DOOR_SIGNAL_OPE N_WHILE_DRIVING	Door signal in an open state while driving.	Run the test program in the service menu. The door signal is either stuck in the open state or has the wrong polarity. To clear the alarm, the vehicle must be driven with doors closed.
VEHICLE_EXTERNAL_SIGN_C ONTROLLER_OVERRIDE	External sign controller overrides internal sign control	Check external sign controller switch and/or electrical connections
VEHICLE_TOUCH	Touch display not responding	Check electrical connections and power to display.
UDP_NODE_SPAM	Abnormal communication for UDP node with system address {0}. Limit of {1} messages reached in less than {2} seconds	Check cudpgw logs for more details. There might be a lot more nodes spamming, the first node that spams triggers this alarm. But the alarm is not cleared until all spamming nodes are back to normal. </td
TASK_SCHEDULER_TASK_ERR OR	The task {0} has failed to run by Tmix.Cap.Platform.Process.Task Scheduler	Check the logfile for process Tmix.Cap.Platform.Process.TaskS cheduler
VEHICLE_APC_COUNTS_NOT _UPDATED_ON_JOURNEY	APC counters from source {0} and door {1} are not updated while occupying a journey	Run the test program in the service menu. Check connections
VEHICLE_APC_DOOR_COUNT S_NOT_UPDATED_ON_JOURN EY	APC counters from door {1} not updated while occupying a journey.	Run the test program in the service menu. Check connections.

Fault	(Synopsis), Description	Proposed Repair Action
VEHICLE_GPS_NO_FIX	The GPS got no fix for {0} seconds of uptime	Run the test program in the service menu. Check connections and antenna
VEHICLE_GPS_NO_FIX_ON_J OURNEY	The GPS got no fix for {0} seconds spent on the journey	Run the test program in the service menu. Check connections and antenna.
EXCESSIVE_NODE_DOWNLO ADS	Abnormal download communication. Limit {0}.	Check depot logs for more details.
EXCESSIVE_NODE_UPLOADS	Abnormal upload communication. Limit {0}.	Check depot logs for more details.
MQTT_CONNECTION_LOST	MQTT connection lost	MQTT broker connection lost.
MQTT_TETRA_CONNECTION_ DOWN	Lost Tetra MQTT connection	Check ethernet switch/cable or MQTT broker
MQTT_TETRA_SEND_ERROR	Multiple MQTT send error	Check ethernet switch/cable or MQTT broker
DISPLAY_BACKLIGHT_SENSO R_FAILURE	Display backlight error	Check display, the backlight sensor cannot detect any light being emitted.
VEHICLE_IGNITION_SIGNAL	No input from the ignition pin, seems that the input has failed or is not correctly connected.	Run the test program in the service menu. Check electrical connections.
VEHICLE_GPS_CRAZY_JUMP	The GPS made a crazy jump of {0} meters. Positions being filtered: {1}.	Reset GPS unit.
DATAIMPORT_IMPORT_FAILE D	Dataimport import failed.	Check import
DATAIMPORT_VERIFY_FAILED	Dataimport verify failed.	Check import
DATAIMPORT_DEPLOY_FAILE D	Dataimport deploy failed.	Check import
VEHICLE_NEXT_STOP_BUTTO N	Vehicle next stop button signal not toggled while on the journey.	Check the next stop button signal.
VEHICLE_PANIC_BUTTON	The vehicle panic button signal shorted at startup.	Check the panic button signal.
VEHICLE_ODK_CONNECTION	The ODK is not responding to Pld 501 since {0} seconds	Check the ODK power and its connection.
DISCO_SLAVE_MISSING	No response from a disco slave unit, slave ID: {0}	Check connections of connected slave units in the <u>Disco</u> sign group setup. Also, check master/slave configurations.

Fault	(Synopsis), Description	Proposed Repair Action
DISCO_SLAVE_UNKNOWN	A disco slave unit that is unknown is discovered by the master, slave ID: {0}	Check the configuration of the master unit in the Disco display group.
CAMERA_CONTROL_CONNE CTION	Connection to camera control for {0} lost	Check wiring
VEHICLE_CCTV_CONNECTIO N	No contact with CCTV (camera) system.	Run the test program in the service menu. Check wires and connectors.
VEHICLE_CCTV_SYSTEM	Error CCTV (camera) system, status:	Run the test program in the service menu. Check the CCTV control box. Check wires and connectors.
VEHICLE_CCTV_CAMERA	Error status for CCTV cameras: {0}. Connected cameras: {1}	Run the test program in the service menu. Check cameras, wires and connectors.
VEHICLE_CCTV_DISK	CCTV disk storage is not active. Status: {0}	Run the test program in the service menu. Check the CCTV control box.
VEHICLE_SENSOR_ALCOLOC K	No contact with the alcohol lock unit.	Run the test program in the service menu. Check wires and connectors.
INFORMATION_DISPLAY_FLAP PING	Communication with the information display is 'flapping, meaning it goes up and down several times a day.	
VEHICLE_INTERIOR_PASSEN GER_DISPLAY_UNREACHABL E	The interior passenger display at IP: {0} is unreachable.	Run the test program in the service menu. Is the display powered on? Check network cables. Are the correct network ports used?
VEHICLE_TRAFFIC_DATABAS E_VERSION_MISMATCH	The traffic database is not in sync with the backend.	Make sure the unit has a mobile connection to the backend and trigger a sync
DEPOT_EXCESSIVE_SYNC	A node {0} is downloading excessively.	Make sure the unit is healthy
DISCO_CONNECTION_LOST	Disco client lost connection to the server, timetable backup {0}	Make sure the unit is healthy
VEHICLE_SIGNAL_IO_ERROR	A signal source in failstate, details {0}	Check connections and wires
VEHICLE_INTERIOR_TEMP_SE NSOR	Vehicle interior temp sensor not producing valid values.	Check wiring or sensor.
VEHICLE_HEATER_NOT_STAR TED	The heater is blocked for some reason.	Check fault codes of the heater and the heater.

Fault	(Synopsis), Description	Proposed Repair Action
VEHICLE_TSP_MODEM	There is no data received from the TSP modem	Check fault codes and wiring
VEHICLE_PROCESS_HUNG_R ESTART	Found hung process that was restarted	
VEHICLE_PROCESS_HUNG_R EBOOT	Found hung process, restart failed, rebooted	
VEHICLE_DRIVING_MONITOR _CONNECTION	There is no data received from the {0} driving monitor	Check fault codes and wiring
VEHICLE_DRIVING_MONITOR _CAMERA_ERROR	There is no data from the {0} driving monitor camera, video channel: {1}	Check fault codes and wiring
VEHICLE_DRIVING_MONITOR _INDICATOR_ERROR	{0} Driving monitor driver indicator (small display) not responding	Check fault codes and wiring
VEHICLE_EXTERNAL_POWER_ NOT_CONNECTED	The external power cable should be connected when the vehicle is parked in the depot area.	Connect the external power. If already connected, troubleshoot the connectors and the corresponding in signal to the MX4 unit.
SOFTWARE_BUG	A software bug has been detected	Contact supplier/developer
VEHICLE_HEATER_NOT_HEAT ING	The indoor temperature is not rising even though the heater is activated. Temperature has gone from {0} to {1} degrees during {2} minutes of heating.	Report the error to the heater system
VEHICLE_HEATER_FAULT_CO DE_ACTIVE	The heater is generating an active fault code.	Report the error to the heater system supplier
VEHICLE_DISPLAY_CONTROL LER	Display controller not responding.	Check the controller board
VEHICLE_INTERIOR_PASSEN GER_DISPLAY_MISMATCH	DPI Screen route not matching journey route {0}	Contact supplier/developer
VEHICLE_ASSIGNMENT_MIS MATCH	{0} has another assignment: {2}. Our: {1}	Check the assignment and make sure it's correct.
VEHICLE_REMAINING_RANG E_INSUFFICIENT	Seems like the remaining battery range is not sufficient to fulfil the current trip. SOC is {0}, estimated remaining range is {1} meters, while distance left on current trip is {2} meters.	Cancel the trip and recharge batteries at the nearest charging station.
VEHICLE_EXCESSIVE_UNEXP ECTED_REBOOTS	System detected {0} unexpected reboots in {1} seconds	Check power source to MX4.

Fault	(Synopsis), Description	Proposed Repair Action
VEHICLE_RTC_BATTERY_DRAI NED	If the battery for the internal clock is drained, the clock may be inaccurate	Check power source to MX4.
VEHICLE_IP_ADDRESS_CONF LICT	IP address conflict detected for {0} on device {1}. Mac addresses with same IP address: {2}.	Check configuration of network connected devices.
SERVICE_SELF_TEST_FAILED	The service {0} self test failed.	
VEHICLE_HUD_CONNECTION	No connection from Heads Up Display.	Run test program in service menu. Check wires and connectors. Network switch powered?
VEHICLE_VIMI_APC_REPORTI NG	There is a communication problem with the "Vimi Report Gateway" for APC reports. Error type: {0}. Error count: {1}.	
VEHICLE_MODBUS_CONNEC TION	Modbus device ({0}) not responding.	Check the connection.
VEHICLE_MOBILEYE_FAILURE	Mobileye device in error state.	Contact supplier/developer
VEHICLE_MOBILEYE_CONNE CTION	Mobileye device not responding	Check the connection
VEHICLE_WEATHER_STATION _CONNECTION	Weather device not responding	Check the connection
VEHICLE_TACHOGRAPH_CO NNECTION	Tachograph device not responding	Check the connection
VEHICLE_ALCOLOCK_CONNE CTION	Alcolock device not responding	Check the connection
VEHICLE_ALCOLOCK_CALIBR ATION	Alcolock calibration required	Contact supplier/developer
VEHICLE_ALCOLOCK_MALFU	Alcolock malfunction	Check the connection
VEHICLE_DPI_UPDATE_MISSI NG	No update from DPI provider {0}, on trip {1}.	Check the connection
VEHICLE_TACHO_DOWNLOA D_FAILED	Tachograph download failed	Check connection. Contact supplier/developer
RESOURCE_AGE_ERROR	Resource {1} has an invalid age {2}	Replace the resource {1} with a newer one.

Fault	(Synopsis), Description	Proposed Repair Action
MODIFIED_FILE	Files have been modified on host {0}	Replace the file(s) with the orginal one(s).
KPI_MONITOR	KPI monitoring {0}: {1}	Check server and network performance. Check log files for relevant service(s). Check for other alarms.
VEHICLE_HIGH_POWER_CHA RGER_NOT_CONNECTED	The high power charger is not connected. {0} Details: {1}	Connect the charger. If already connected, check signal that should reflect that the charger is connected or not.
VEHICLE_HIGH_POWER_CHA RGING_PROBLEM	The high power charger gives insufficient charging, despite being connected. Details: {0}	Check charger and charger cable. The alarm will clear at next functional charging session for the vehicle.
VEHICLE_TARGET_SOC_NOT_ REACHED	Target SOC is not reached. Scenario: {0} SOC at time of alarm: {1}%, target SOC: {2}%, charger connected: {3}	
VEHICLE_MODEM_NETWORK _CONNECTION	Problem connecting to mobile data network. Details: {0}	Check SIM for debris or misplacement. Dismount, clean and remount. Check SIM card validity.
VEHICLE_GPS_UNAVAILABLE	GPS is currently unavailble due to modem reset. Which in turn is caused by problem connecting to mobile data network. Modem has been requested to reset at {0}.	Check SIM for debris or misplacement. Dismount, clean and remount. Check SIM card validity.
VEHICLE_STARTER_BATTERY_ LOW_VOLTAGE	Critially low battery voltage on the starter battery. Details: {0}.	Connect charger.
VEHICLE_SMOKE_DETECTOR _ALARM	Smoke detector disconnected or active	
VEHICLE_FIRE_DETECTOR_AL ARM	Fire detector disconnected or active	
VEHICLE_EXTERNAL_POWER_ DEACTIVATED_DUE_TO_LOW _VOLTAGE_THRESHOLD	External power deactivated due to lower voltag threshold hit	
VEHICLE_HANOVER_DPI_DUP LICATE_ADDRESS_ERROR ({0})	Hanover duplicate address {1}.	
LOW_SOC_WARNING	Low SOC warning. Battery state of charge: {0}%. Warning level: {1}%.	Recharge batteries as soon as possible.

Fault	(Synopsis), Description	Proposed Repair Action
LOW_SOC_LIMP_MODE	Limp mode warning due to very low SOC. Battery state of charge: {0}%. Warning level: {1}%.	Position vehicle in a safe spot, then contact service personel.
VEHICLE_EXTERNAL_POWER_ CONNECTED_SIGNAL_BROKE N	Signal for "external power connected" seems to be broken. It has not toggled for several days.	Check signal connection.
VEHICLE_VOLTAGE_TOO_LO W_FOR_PRECONDITIONING	Cutting power to external equipment, due to low voltage. Voltage: {0}V, time below threshold: {1}ms	Charge battery.
VEHICLE_DPI_GPU_HUNG	DPI unit GPU hung	Unit needs a repair
VEHICLE_DPI_REG_SOURCE_ MOVED	This DPI unit has been moved from its original registration source (vehicle computer). Or the registration source has been renamed.	Redo initial provisioning for this DPI unit.
VEHICLE_SIGN_DUPLICATE_L OGICAL_ADDRESS	Duplicate logical sign address detected. Logical adress: {0}, on signs: {1}.	Check configuration of these signs.
VEHICLE_DPI_PERSISTENT_ST ORAGE_ERROR	Browser storage corruption detected. screen id: {0}	Storage has been corrupted.
VEHICLE_DPI_PERSISTENT_ST ORAGE_CLEARED	Storage has been cleared	Storage has been cleared
VEHICLE_SECURITY_CHECKS UM_ERROR	Checksums are not matching between device and backend	Storage has been rsynced.
VEHICLE_SIGN_MISSING_AD DRESS_ERROR	One or more Hanover displays are missing on the network. Logical address: {0}.	
VEHICLE_GRAPHICS_ENGINE _RESTART	Graphics engine was hung	Will auto reset
VEHICLE_PTC_RADIO_CONN ECTION	Lost radio connection	Check cable and power of radio