



1. Change time or distance between actions. Time/distance is counted from the beginning of first action to a beginning of second action
2. Overview of actions in the sequence
3. Clear the whole sequence
4. Start recording a new sequence

[Reviewed]

8.16.2.1 Recording actions

NT03VUI-838 - U-Pilot record sequence

Once the record a sequence button is pressed, the selected sequence is first cleared from existing actions. After that each action that the driver performs is automatically stored in the selected sequence. The sequence is visually updated after every new action is added to the sequence. When recording a sequence the transition between actions is automatically distance. After the sequence is ready the transition can be manually changed to time as well.



Start recording a new sequence button. [Reviewed]

NT03VUI-840 - U-Pilot sequence step transition setting



Operator can change the transition between steps to either time or distance. A popup to set the transition type and time or distance value is opened by pressing this button on U-Pilot sequence configuration popup.

[Reviewed]

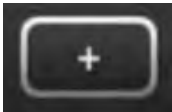
NT03VUI-841 - U-Pilot clear sequence



Operator can clear the whole sequence by pressing this button on the U-Pilot sequence configuration popup.

[🔍 Reviewed]

NT03VUI-842 - U-Pilot add sequence step



Operator can add a new sequence step to selected sequence by pressing this button.



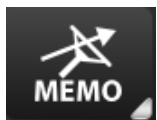
Operator shall first select the desired category for the new action.



After selecting a category the operator can choose a sequence step. [🔍 Reviewed]

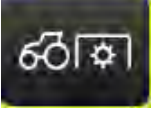
8.16.2.2 List of sequence actions (under development)

NT03VUI-839 - List of U-Pilot sequence actions

Action	Description	Extended
	Power supply 12V ON	No
	Power supply 12V OFF	No
	Pause sequence. Sequence will continue when the controlling device is pressed again.	No
	QuickSteer ON	No
	QuickSteer OFF	No
	QuickSteer sensitivity	Yes -Sensitivity value
	Front Loader Soft Drive ON	No

	Front Loader Soft Drive OFF	No
	Engine RPM cruise ON	Yes -RPM value
	Engine RPM cruise OFF	No
	Engine Brake	Yes -Engine brake value
	Engine MAX RPM ON	Yes -MAX RPM value
	Engine MAX RPM OFF	No
	Engine MIN RPM ON	Yes -MIN RPM VALUE
	Engine MIN RPM OFF	No
	Four Wheel Drive ON	No
	Four Wheel Drive OFF	No
	Differential Lock ON	No
	Differential Lock OFF	No
	Work light set up ON	Yes -Work light set up
	Auto-Guide ON	No
	Auto-Guide OFF	No
	Camera full screen	No

	Close camera full screen	No
	Speed cruise ON	Yes -Speed value
	Speed cruise OFF	No
	Range Gear C/D AUTO ON	No
	Range Gear C/D AUTO OFF	No
	Power Shift gear	Yes -PS gear
	Rear Hitch float ON	No
	Rear Hitch float OFF	No
	Rear Hitch Work	No
	Rear Hitch Transport	No
	Rear Hitch Work value	Yes -Rear Hitch Work value
	Rear Hitch MAX position	Yes -Rear Hitch MAX position
	Rear Hitch Lowering speed value	Yes -Rear Hitch lowering speed value
	Rear Hitch damping ON	No
	Rear Hitch damping OFF	No

	Front PTO ON	No
	Front PTO OFF	No
	Rear PTO speed 540	No
	Rear PTO speed 1000	No
	Rear PTO speed GSPTO	No
	Rear PTO ON	No
	Rear PTO OFF	No
	Stop selected valve	No
	Plus port flow and time for selected valve	Yes -Flow % value -Time
	Minus port flow and time for selected valve	Yes -Flow % value -Time -Float

[ Draft]

8.16.3 U-Pilot info screen

NT03VUI-843 - U-Pilot info screen



U-Pilot info screen gives a good overview of all programmable buttons and their allocations.

- M1: Continuous type of single action
- M2: Running sequence with current hydraulics action and 3 seconds until start of the next action
- M3: Paused sequence
- M4: (deprecated)

[👍 Reviewed]

8.16.4 U-Pilot error popup

NT03VUI-1045 - U-Pilot error popup

U-Pilot error popup is displayed in following events:

Description	Error popup
Operator not present	
Maximum allowed speed exceeded (25km/h)	
Rear PTO gear is not selected	
Front PTO gear is not selected	
Rear Linkage is not activated	
Auto-Guide not pre-activated	
Tractor was standstill for too long during recording	
Too long time since the last recorded action	
Maximum number of steps in the sequence exceeded (24)	
Safety critical function is ignored due tractor is standstill	
Auxiliary hydraulics not activated	
Hydraulics valve locked	
No hydraulics control device allocated	

Hydraulics control device not in neutral position	
Hydraulics valve in error state	

[ Draft]

8.17 Tractor health

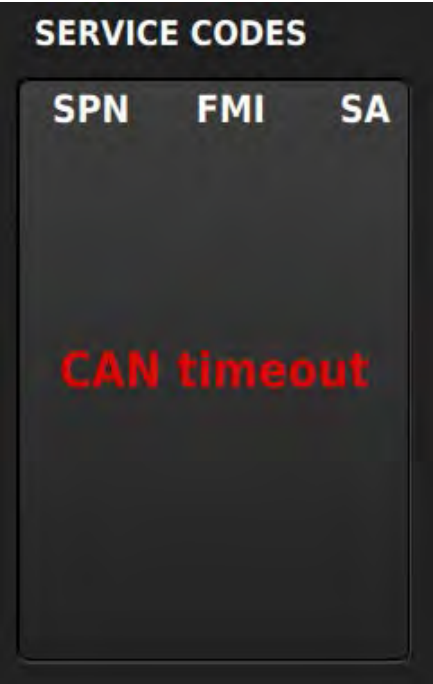
NT03VUI-853 - Tractor health page



1. List of active error codes.
2. Fill bar to display the level of fuel.
3. Fill bar to display the level of DEF (Diesel Exhaust Fluid).
4. Display total hours driven.
5. Display next service hours. Value is green if hours driven is smaller than the next service hours and otherwise red.
6. Terminal software information
 1. Software version
 2. tractor VIN number
7. Factory reset button. By resetting to factory settings:
 1. All user created profiles are removed
 2. Valtra default profile is activated with factory settings
 3. Terminal settings are restored to factory settings including info popup configurations (excluding language?)
 4. All task data stored in terminal is removed
 5. Unlocked features for the terminal will remain available
 6. field data are removed
8. Tractor calibrations
9. Engine coolant temperature
10. (Hydrostat oil temperature (Not available for S-Series. Only for CVT tractors)) / Transmission oil temperature
11. Hydraulics oil temperature
12. Battery voltage

[🖋️ Draft]

NT03VUI-854 - Service codes display



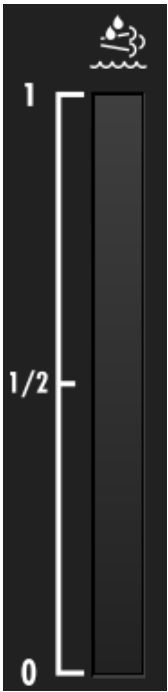
List of active error codes. [🖋️ Draft]

NT03VUI-855 - Tractor fuel level info



Fill bar to display the level of fuel. [🖋️ Draft]

NT03VUI-856 - Tractor DEF level info



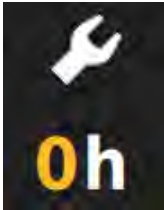
Fill bar to display the level of DEF (Diesel Exhaust Fluid). [🔧 Draft]

NT03VUI-857 - Total hours driven info



Display total hours driven in 30 minutes accuracy. Is shown on tractor health page and tractor health info screen. [🔧 Draft]

NT03VUI-858 - Service hours info



Display next service hours. Value is green if hours driven is smaller than the next service hours and otherwise red. Is shown on tractor health page and tractor health info screen. [🔧 Draft]

NT03VUI-859 - Application software version info



Display application software version e.g. 1.0
[🔧 Draft]

NT03VUI-861 - Terminal BSP version info



Not in use [🔧 Draft]

NT03VUI-862 - Factory reset

PALAUTA TEHDASASETUKSET:



Operator can reset the terminal to its factory settings by pressing this button on the tractor health page.

Are you sure you want to reset factory settings?

NO

YES

Confirmation is asked from the operator. If the operator resets the factory settings:

1. All user created profiles are removed
2. Valtra default profile is activated with factory settings
3. Terminal settings are restored to factory settings including info popup configurations (excluding language?)
4. All task data stored in terminal is removed
5. Unlocked features for the terminal will remain available

[✎ Draft]

NT03VUI-863 - Engine coolant temperature info



Engine coolant temperature is shown on tractor health page and tractor health info screen. [✎ Draft]

NT03VUI-864 - Hydrostat oil temperature info



Hydrostat oil temperature is shown on tractor health page and tractor health info screen. [✎ Draft]

NT03VUI-865 - Transmission oil temperature info



Transmission oil temperature is shown on tractor health page and tractor health info screen. [✎ Draft]

NT03VUI-866 - Hydraulics oil temperature info



Hydraulics oil temperature is shown on tractor health page and tractor health info screen. [✎ Draft]

NT03VUI-867 - Battery voltage info



[✎ Draft]

8.17.1 Tractor health info screen

NT03VUI-868 - Tractor health info screen



1. Fill bar to display the level of fuel.
2. Fill bar to display the level of DEF (Diesel Exhaust Fluid).
3. Display total hours driven.
4. Display next service hours.
5. Engine coolant temperature
6. Hydrostat oil temperature (Not available for S-Series. Only for CVT tractors)
7. Transmission oil temperature
8. Hydraulics oil temperature

[Draft]

8.18 Counters

NT03VUI-874 - Counter settings page

In NT03 there are 5 individual counters for each profile counting consumed fuel, time worked, area worked and distance traveled. These counters can be set up with different triggers so that the counting is done only when certain conditions are true. For example the user could set one counter to count always when the engine is running and another one only when rear PTO is running. These counters are profile specific and only the active profile's counters are counting. So by changing a profile all of its counters are set to pause. If a counter was set to count it will automatically continue counting when the profile is activated again.



1. Choose counter to be configured. Red circle indicates that the counter is currently counting.
2. Name of the counter. Can be changed by the user
3. Current state of the counter COUNT/PAUSE
4. Reset counter
5. Current values of the counter
6. Triggers
7. Additional settings for hydraulics counters
 - Select a valve to count
 - Select event to trigger counting
 - Select event to stop counting

[Draft]

NT03VUI-875 - Counter name setting



Operator can change the name of the counter. Virtual keyboard to input a name is opened by pressing this button on the counter settings page. [Reviewed]

NT03VUI-876 - Counter state setting

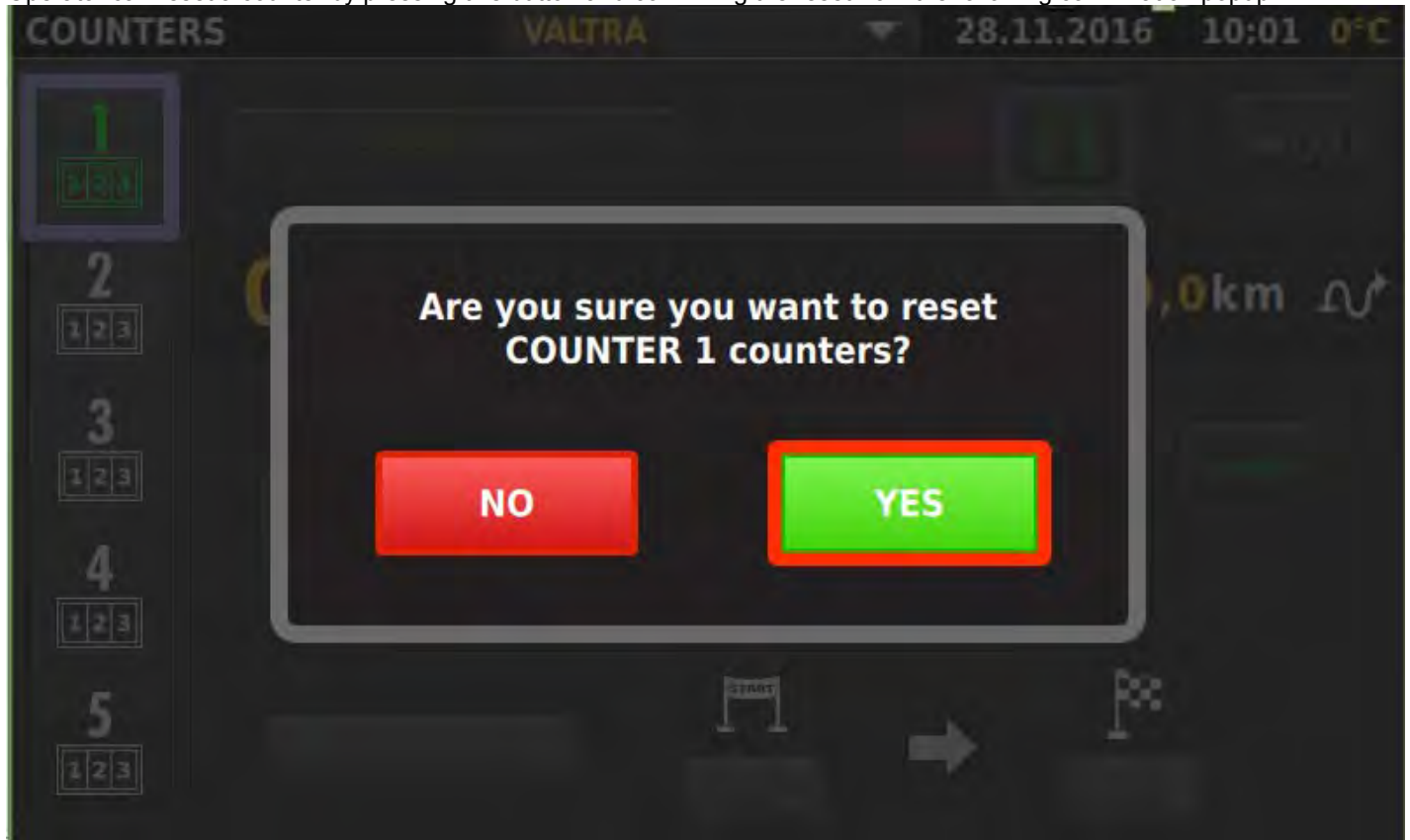


Operator can set counter to count or pause. [Reviewed]

NT03VUI-877 - Counter reset



Operator can reset a counter by pressing this button and confirming the reset from the following confirmation popup.



[🔍 Reviewed]

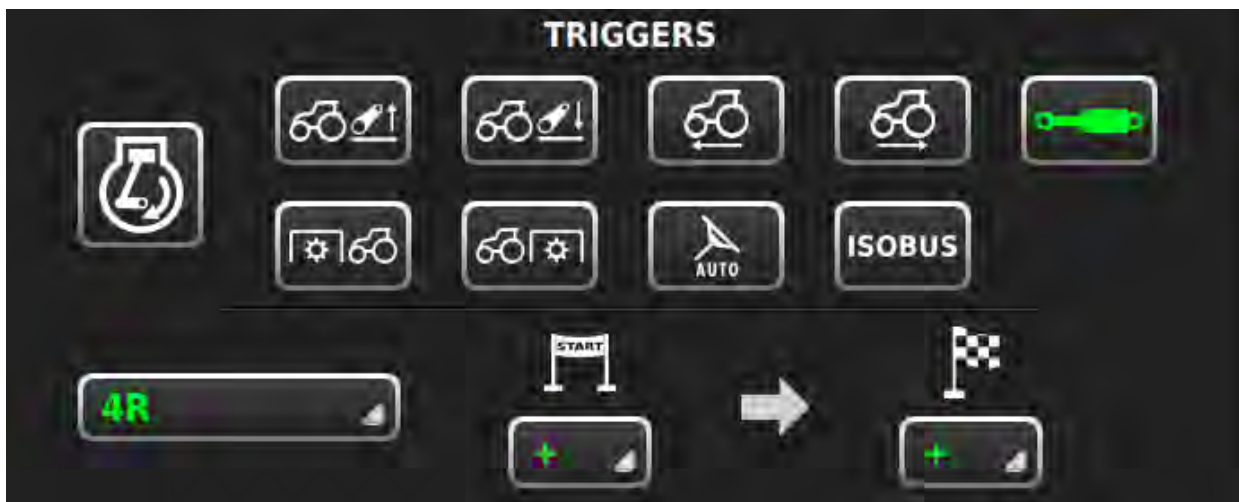
NT03VUI-878 - Counter triggers setting



Operator can set up counters with different triggers so that the counting is done only when certain conditions are true. For example the operator can set one counter to count always when the engine is running and another one to count only when rear PTO is running.

Triggers are:

- Engine running
- Rear linkage in transport position
- Rear linkage in work position
- Tractor moving forward
- Tractor moving reverse
- Hydraulics active
- Front PTO running
- Rear PTO running
- Auto-Guide engaged
- ISOBUS work



If hydraulics active is set as a trigger some additional settings need to be made:

- Select a valve to count
- Select event to trigger counting
- Select event to stop counting

[🔍 Reviewed]

NT03VUI-879 - Counter fuel used info



Display counter's total fuel used in liters accuracy. Displayed in counter settings page and in counter info screen. [🔍 Reviewed]

NT03VUI-880 - Counter total time info



Display counter's total time spent. Displayed in counter settings page and in counter info screen. [🔍 Reviewed]

NT03VUI-881 - Counter area worked info



Display counter's total area worked in square meters accuracy. Displayed in counter settings page and in counter info screen. Implement width can be set from the implement settings page. [🔍 Reviewed]

NT03VUI-882 - Counter distance traveled info



Display counter's total distance traveled in meters accuracy. Displayed in counter settings page and in counter info screen.

[🔍 Reviewed]

8.18.1 Counter info screens

NT03VUI-883 - Counter info screen

Each of the 5 counters have their own info screen so they can be monitored easily while working.



- 1. Counter values
- 2. Counter name
- 3. Selected triggers
- 4. Current state of the counter COUNTING/PAUSED

These counters and their triggers are fully configurable by the user. In addition to user configured counters there is a total counter info screen, which is always counting. The user can not set its triggers but it can be reset to zero. [👤 Reviewed]

NT03VUI-884 - Counter triggers info screen



Selected counter triggers are displayed in the counter info screen's bottom bar. [👤 Reviewed]

NT03VUI-885 - Counter state info screen



Counter's current state is displayed in the counter info screen's bottom bar.





COUNTING

[🔍 Reviewed]

8.19 Fan settings

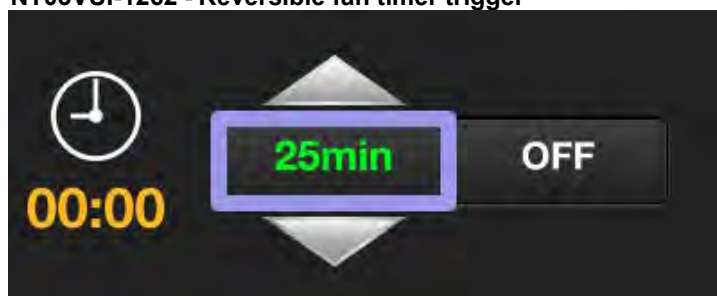
NT03VUI-1260 - Reversible fan settings



1. Current engine coolant temperature.
2. Reversible fan coolant temperature trigger setting.
3. Time to next timer trigger event.
4. Reversible fan timer trigger setting.
5. Automatic reversible fan indicator. When temperature or timer trigger is set this indicator is green.
6. Current state of fan.
7. Reversible fan manual drive.

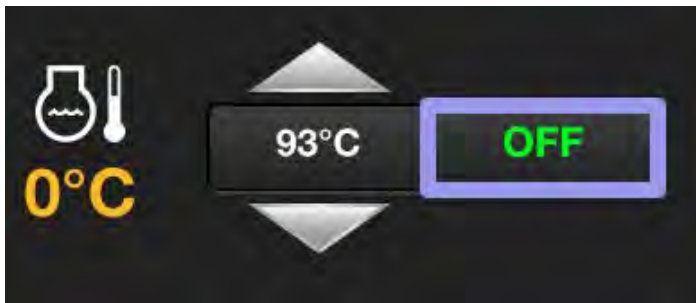
[🔍 Awaiting Review]

NT03VUI-1262 - Reversible fan timer trigger



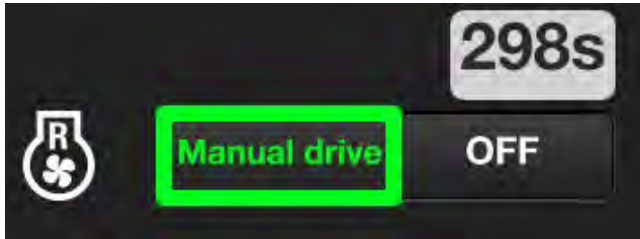
User can select time period when reversing function will be activated. The value below icon shows remaining time to next reversing function. [🔍 Awaiting Review]

NT03VUI-1263 - Reversible fan coolant temperature trigger



User can select the coolant temperature when reversing function will be activated. Current coolant temperature is displayed below the icon. [Awaiting Review]

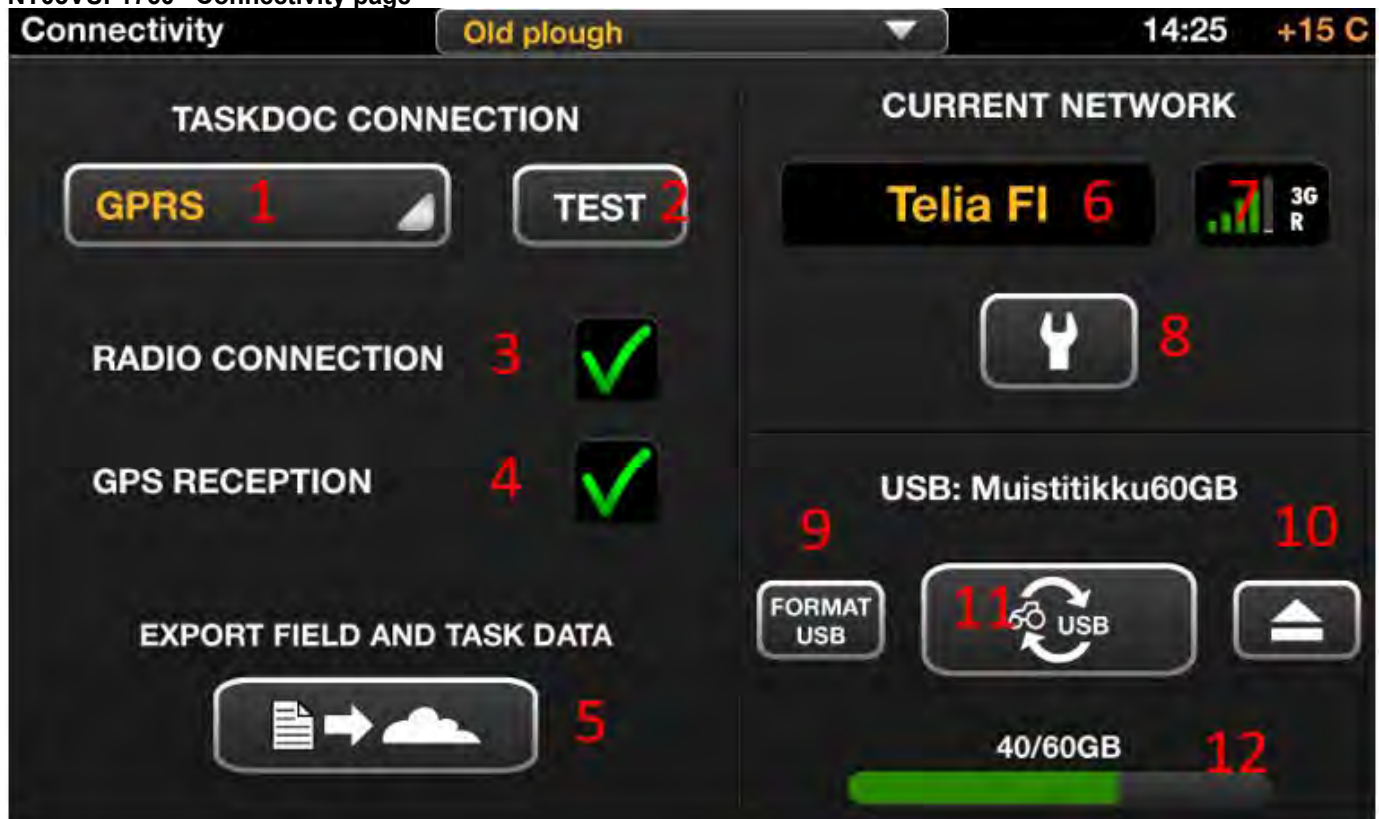
NT03VUI-1261 - Reversible fan manual drive



Manual operation mode activation control. The delay after which the manual operation mode is deactivated is shown in seconds. [Approved]

8.20 Connectivity

NT03VUI-1760 - Connectivity page



1. TaskDoc connection type selection.
Possible values: Bluetooth, GPRS, USB
2. Test selected connection.
3. Bluetooth radio connection established.
4. GPS reception ok.
5. Export all field and task data as ISOXML. TaskDoc connection type determines where to export.
6. Current network.

7. Current network signal strength and internet connection type. Roaming status is also displayed here.
8. Open correction signal popup's GPRS settings tab.
9. Format attached USB device.
10. Unmount USB device.
11. Open USB data transfer popup.
12. USB storage space.

[ Draft]

8.20.1 USB data transfer

NT03VUI-1762 - USB data transfer popup - Export



1. Select all items.
2. Select displayable items from SmartTouch.
3. Sort by name.
4. Select item.
5. Item's name.
6. Export selected items to USB.

[ Draft]

NT03VUI-1763 - USB data transfer popup - Import



1. Import selected items to terminal.
2. Select all items.
3. Select displayable items from USB.
4. Sort by name.
5. Select item.
6. Item's name.

[Draft]

NT03VUI-1761 - USB data transfer popup - Delete

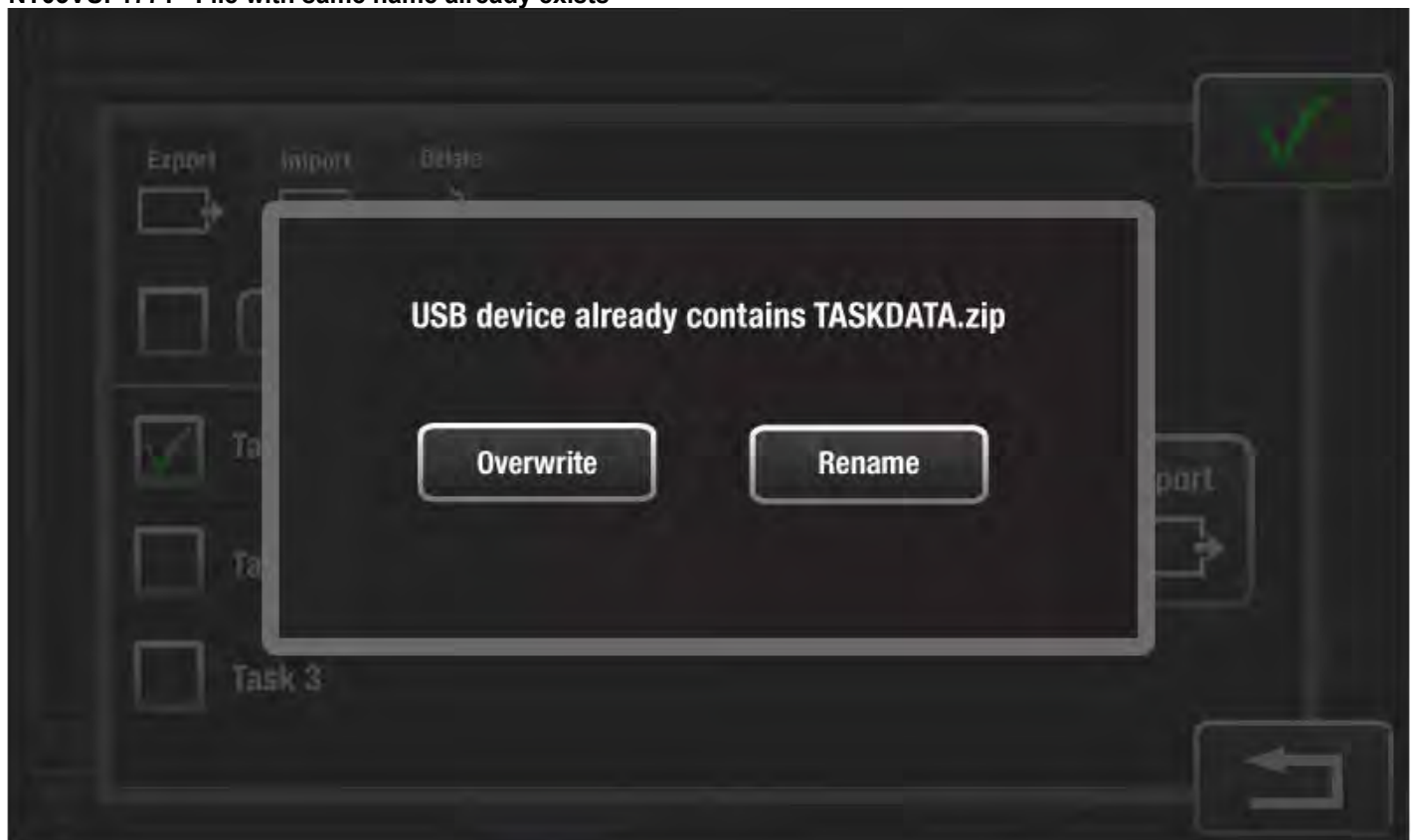


1. Delete selected items from USB device.
2. Select all items.
3. Select displayable items from USB.
4. Sort by name.
5. Select item.
6. Item's name.

[🔧 Draft]

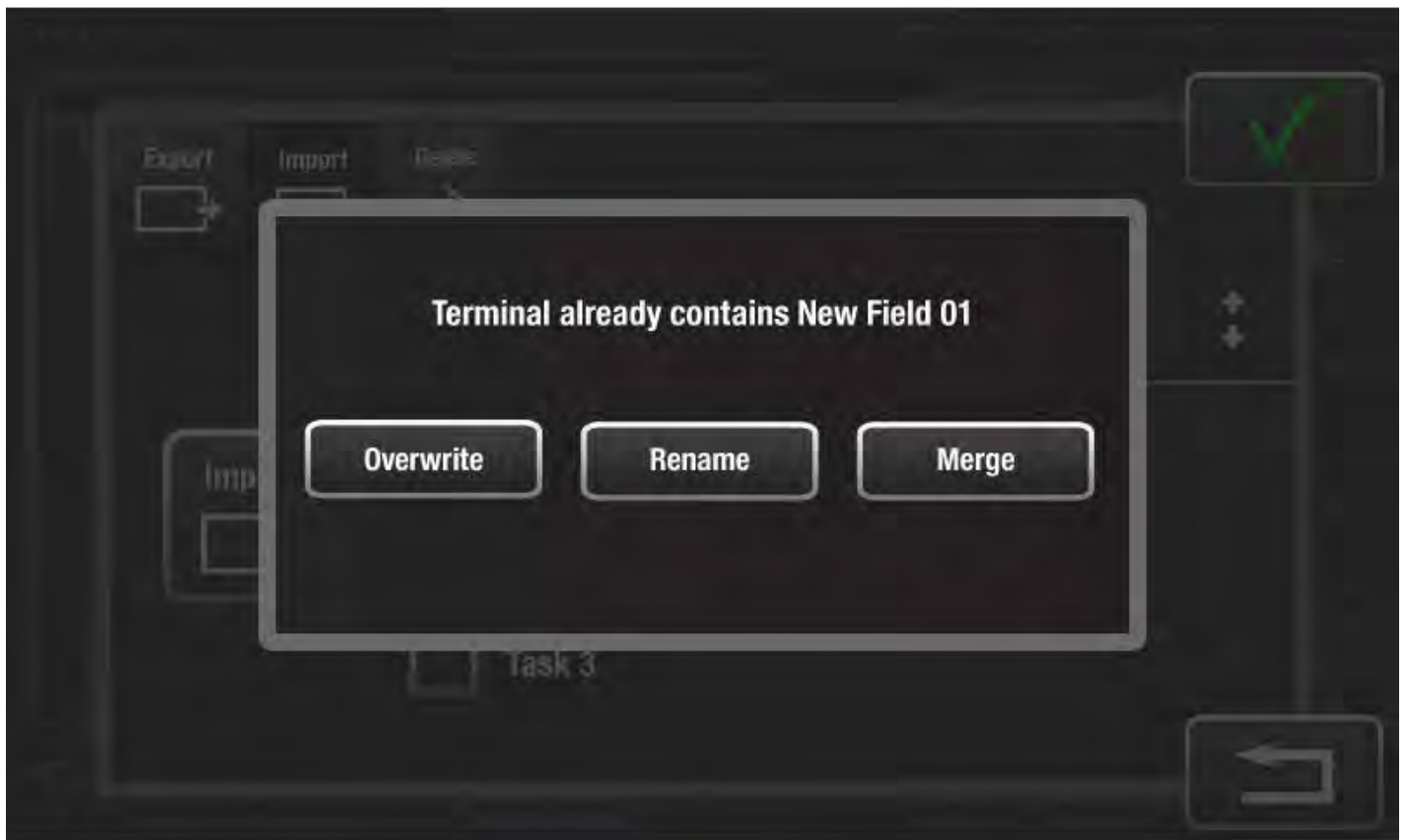
8.20.1.1 Data exchange warning popups

NT03VUI-1771 - File with same name already exists



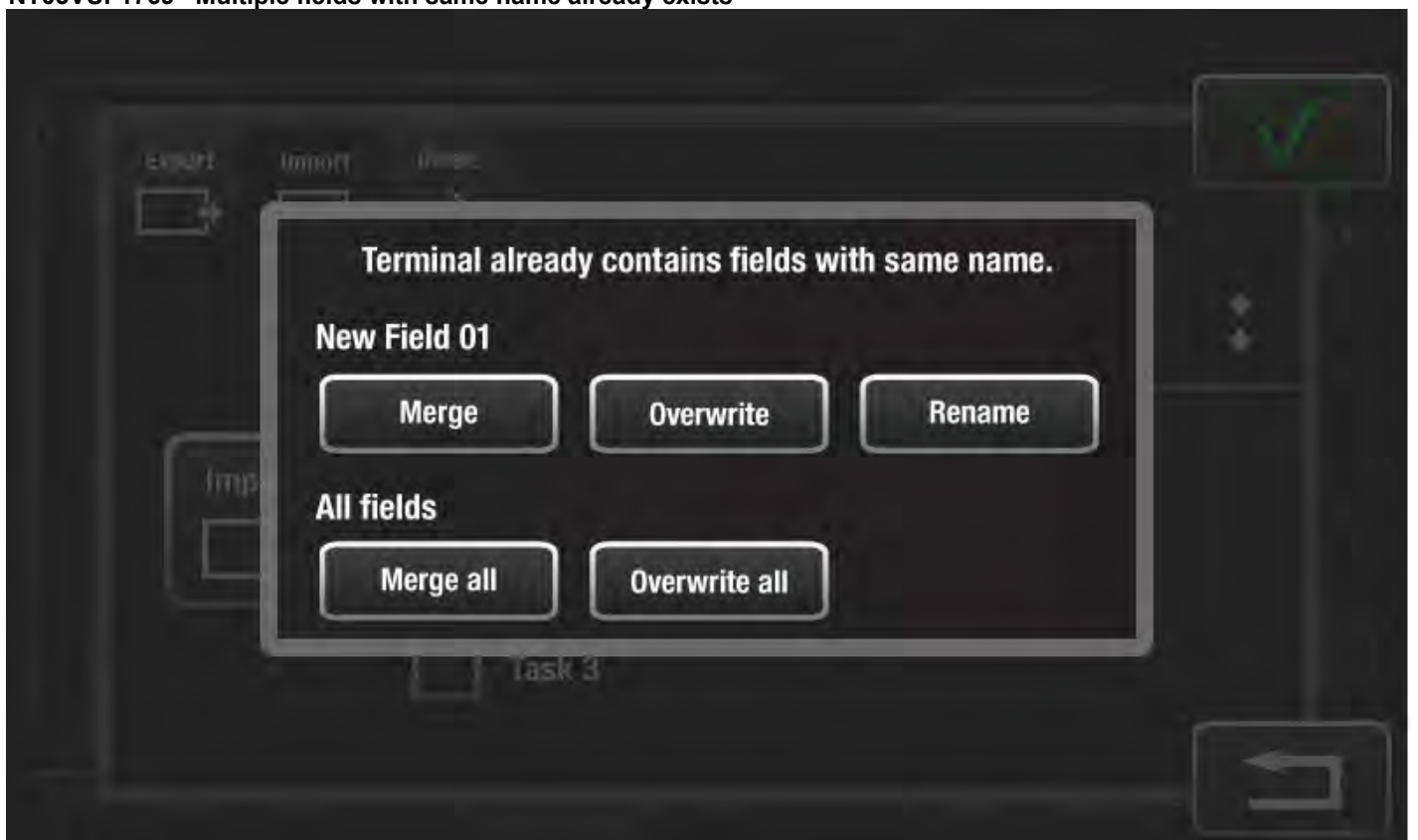
[🔧 Draft]

NT03VUI-1772 - Field with same name already exists



[ Draft]

NT03VUI-1769 - Multiple fields with same name already exists



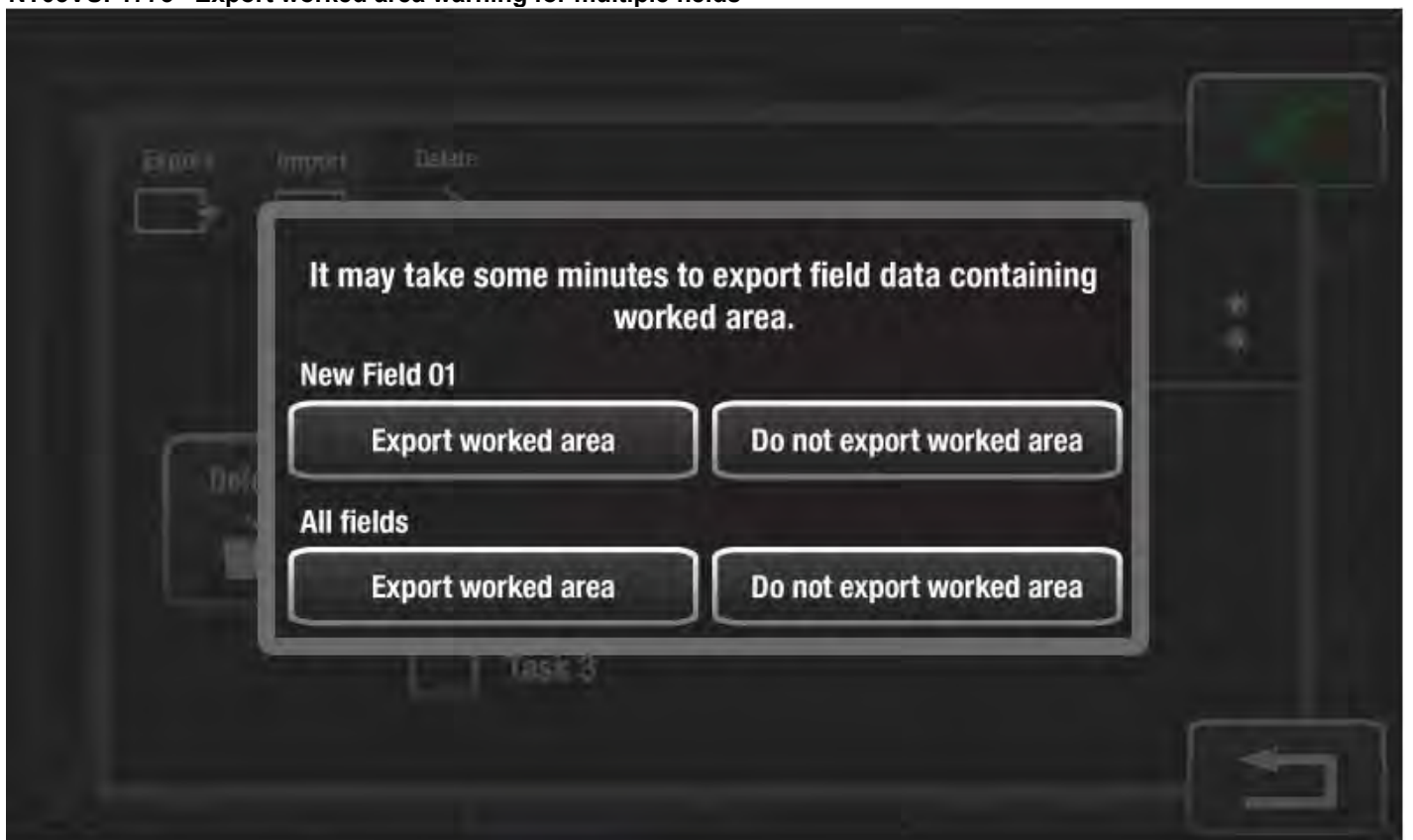
[ Draft]

NT03VUI-1770 - Export worked area warning for single field



[Draft]

NT03VUI-1773 - Export worked area warning for multiple fields



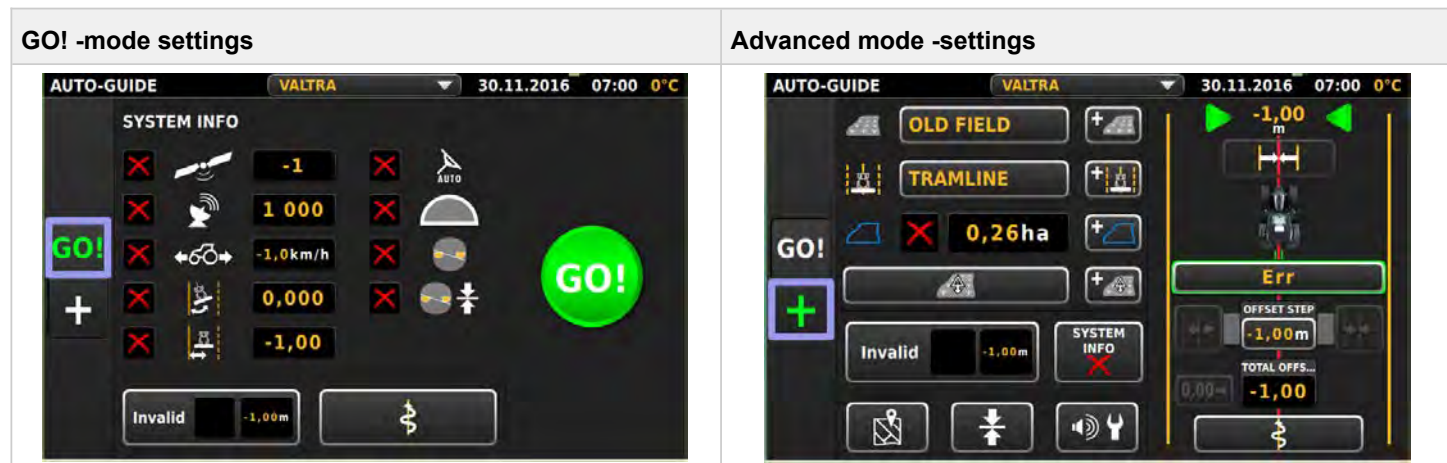
[Draft]

9 Precision Farming

9.1 Auto-Guide

NT03VUI-943 - Auto-Guide settings page

Auto-Guide page is divided in to two: GO! -mode settings and advanced -mode settings. GO! -mode settings screen is simpler and has less settings so it is possible for the operator to quickly just start recording a new wayline. More advanced settings are available on the advanced -mode settings screen.



[Draft]

NT03VUI-944 - Auto-Guide GO! -mode settings



GO! -mode settings

1. Change between GO! -mode settings and Advanced -mode settings.
2. System Information. Auto-Guide is ready to engage if everything is marked with a green tick
3. Connection settings popup
4. Wayline catch up settings popup
5. GO! - Start recording a new wayline

NT03VUI-945 - Auto-Guide Advanced -mode settings



Advanced -mode settings

1. Change between GO! -mode settings and Advanced -mode settings
2. Fields configuration popup
3. Add new a new field
4. Waylines configuration popup
5. Add a new wayline
6. Selected field has a border indicator
7. Selected field's area
8. Record a border to selected field
9. Obstacles configuration popup
10. Add a new obstacle
11. Connection settings popup
12. System Info popup. Green tick visible if Auto-Guide is ready to engage.
13. Go to Map -page shortcut
14. Calibrations popup
15. Audio settings popup
16. Cross track display
17. Auto offset button
18. Wayline width. Shortcut to Implement settings -page
19. Manual nudge offset step
20. Decrease manual nudge offset
21. Increase manual nudge offset
22. Total nudge offset
23. Reset nudge offset
24. Wayline catch up settings popup

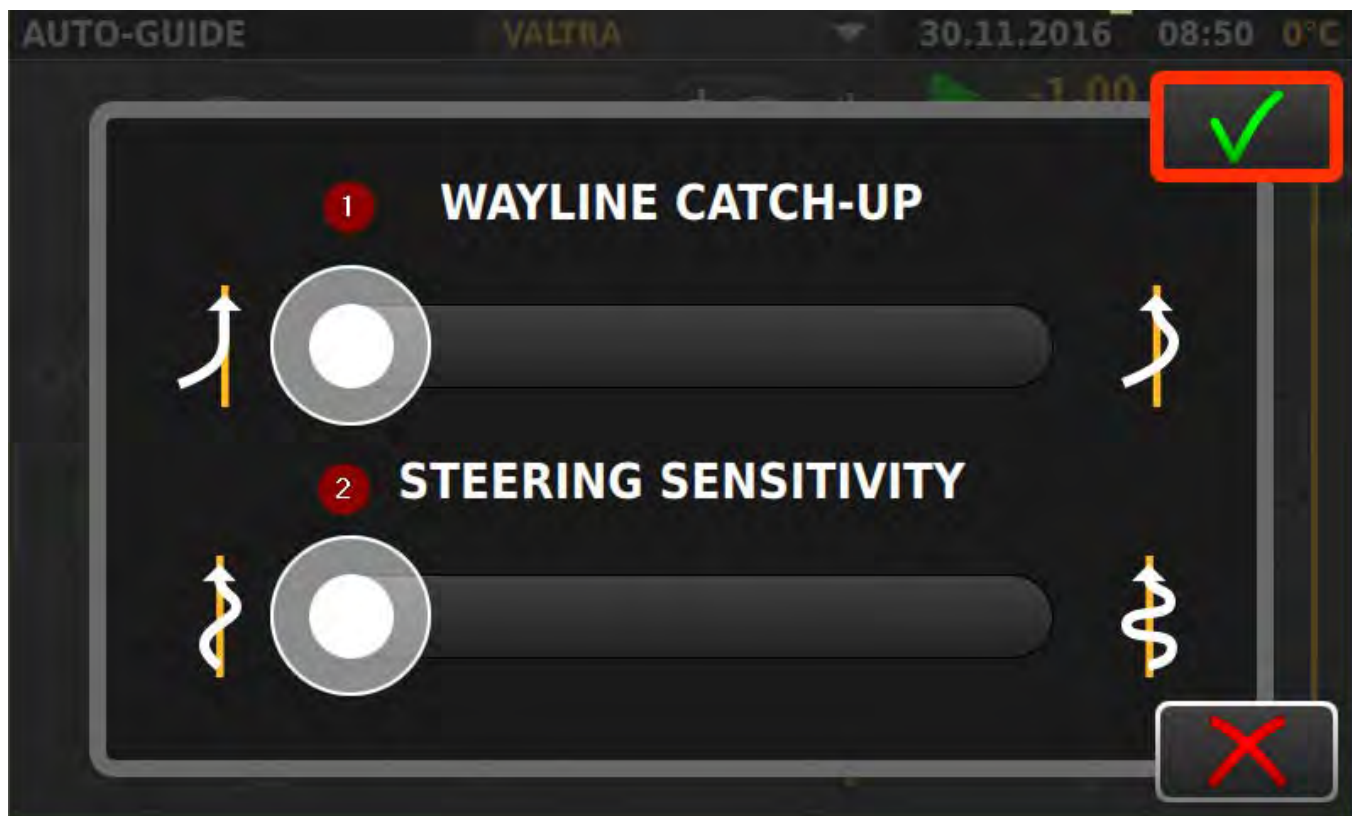
[ Draft]

9.1.1 Wayline catch up popup

NT03VUI-947 - Wayline catch up popup



Wayline catch up popup can be accessed from Auto-Guide settings page by pressing this button. Button is found on both GO! - mode settings screen and Advanced -mode settings screen.



Wayline catch up popup has the following settings:

1. Wayline catch up sensitivity
2. Steering sensitivity

[ Draft]

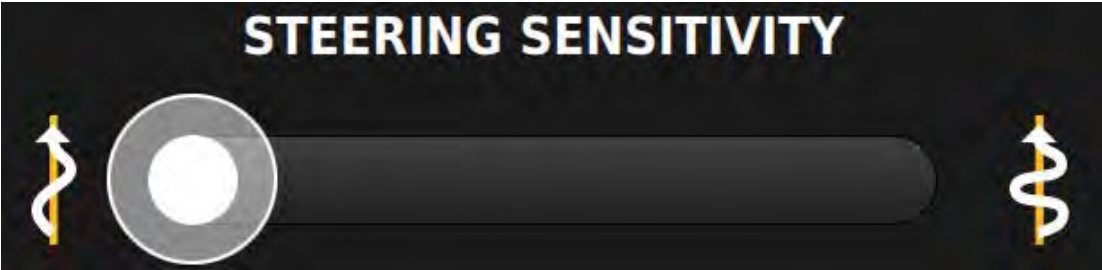
NT03VUI-948 - Wayline catch up setting



Wayline catch up sensitivity can be set with this slider.

[ Draft]

NT03VUI-949 - Steering sensitivity setting

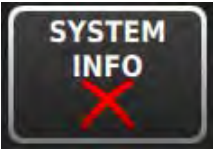


Steering sensitivity can be set with this slider.

[Draft]

9.1.2 Auto-Guide System Info popup

NT03VUI-951 - Auto-Guide System Info popup



System Info popup can be accessed from the Auto-Guide Advanced page by pressing this button. System Info popup consists of three tabs: System Info, Receiver Status and Receiver Info.

System Info tab	Receiver Status tab	Receiver Info tab
Screenshot of the System Info tab. It shows a grid of 12 items, each with a status icon (green checkmark or red X) and a numerical value. A red box highlights a green checkmark in the top right corner.	Screenshot of the Receiver Status tab. It displays fields for Latitude, Longitude, Altitude, Accuracy, Satellites Used, and Last Disengagement Reason. A red box highlights a green checkmark in the top right corner.	Screenshot of the Receiver Info tab. It shows fields for Satellite Receiver, Hardware Version, Serial Number, and Authorisation Level. A red box highlights a green checkmark in the top right corner.

[Draft]

NT03VUI-952 - Auto-Guide System Info tab



1. Enough satellites + number of satellites used

2. Valid correction signal + signal lag
3. Heading status + current angle to the wayline
4. Cross track status + current cross track
5. Steering controller status
6. GNSS receiver status
7. Steering wheel used last 60 seconds status
8. Kalman filter initialized status
9. IMU calibrated status
10. IMU Yaw
11. IMU Roll
12. IMU Pitch

[🔧 Draft]

NT03VUI-1133 - Auto-Guide Engagement Conditions Popup

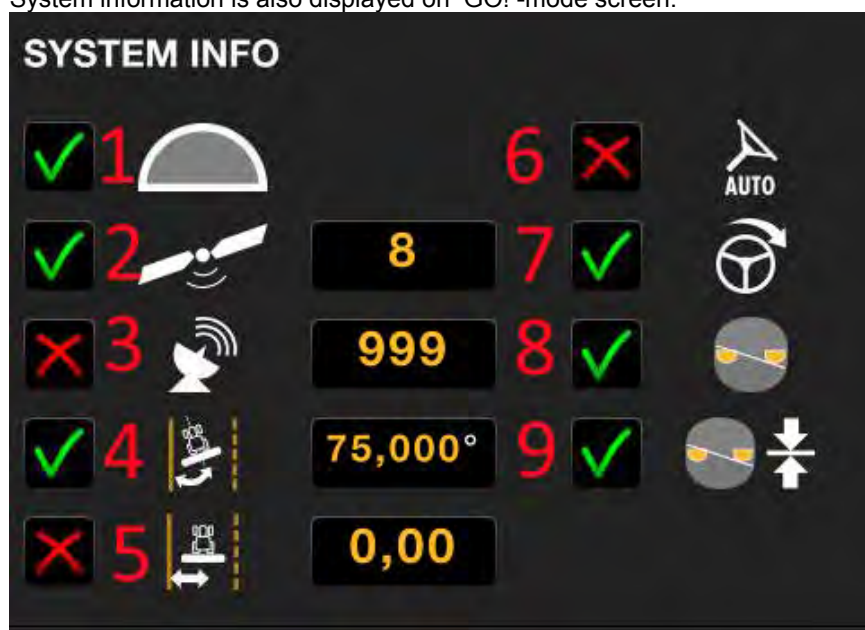
When Auto-Guide Engagement button is pressed, the system will check that all conditions showed on the System Info popup are met. If one or more of the conditions are not met, there shall be popup with all conditions with status indication shown on the terminal.

This shall be similar to System Info popup, but values shown on the System Info popup are not needed on Engagement Conditions popup.

[🔧 Draft]

NT03VUI-953 - Auto-Guide System Info - GO!

System information is also displayed on GO! -mode screen.



1. GNSS receiver status
2. Enough satellites + number of satellites used
3. Valid correction signal + signal lag
4. Heading status + current heading
5. Cross track status + current cross track
6. Steering controller status
7. Steering wheel used last 60 seconds status
8. Kalman filter initialized status
9. IMU calibrated status

[Draft]

NT03VUI-954 - Auto-Guide Receiver Status tab

AUTO-GUIDE VALTRA 30.11.2016 08:59 0°C

✓

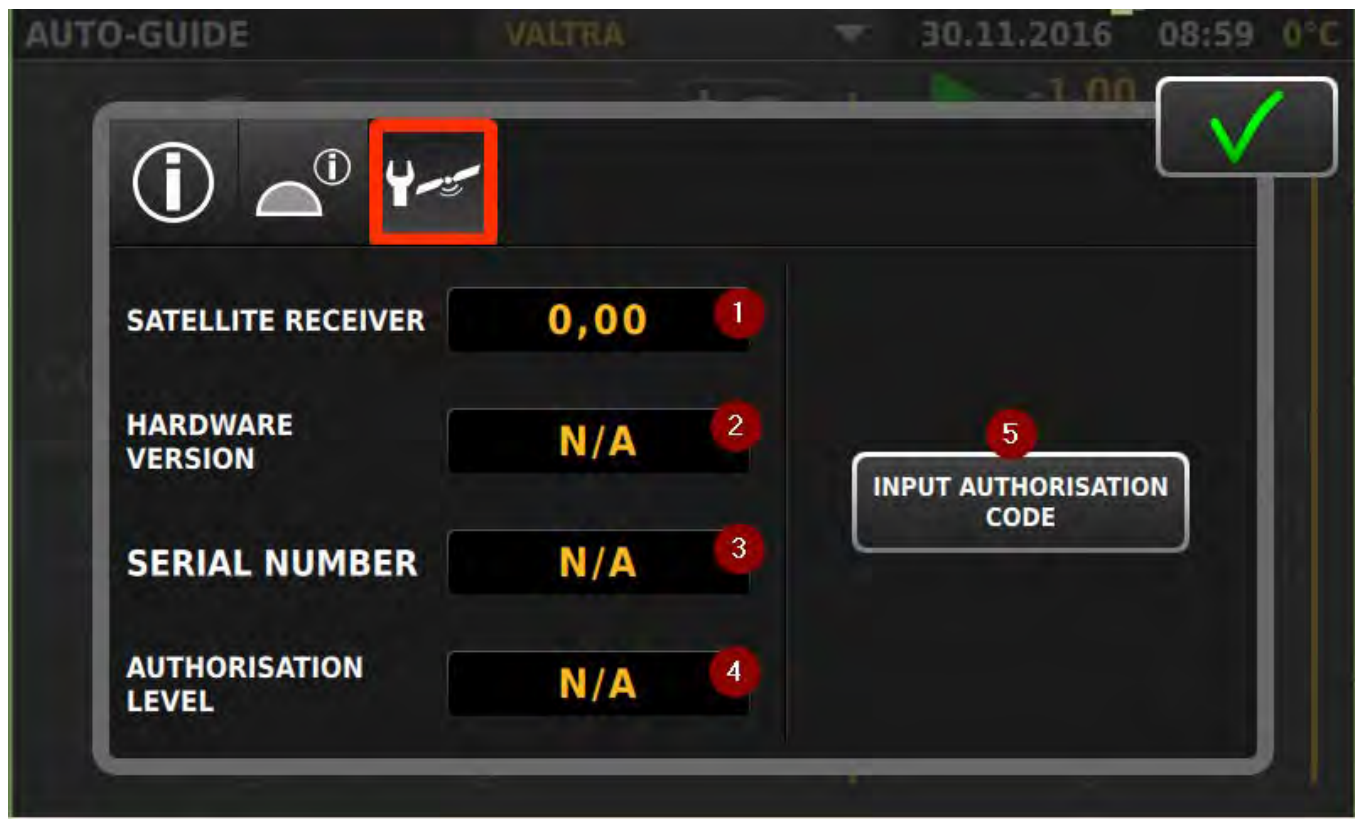
  

LATITUDE 1	nan	SATELLITES USED 5	-1 SAT.
LONGITUDE 2	nan	LAST DISENGAGEMENT REASON	
ALTITUDE 3	0	6	N/A
ACCURACY 4	-1,00m	7	Data 

1. Latitude
2. Longitude
3. Altitude
4. Accuracy + accuracy bar. Accuracy bar displays how good the accuracy is for the selected correction signal.
5. Satellites used
6. Last disengagement reason
7. Save a log file for service

[Draft]

NT03VUI-955 - Auto-Guide Receiver Info tab

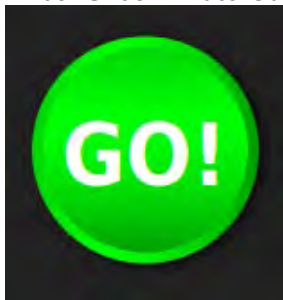


1. Satellite receiver (NovAtel / Trimble)
2. Hardware version
3. Serial number
4. Authorisation level (centimeter, decimeter, submeter, autonomous)
5. Input authorisation code

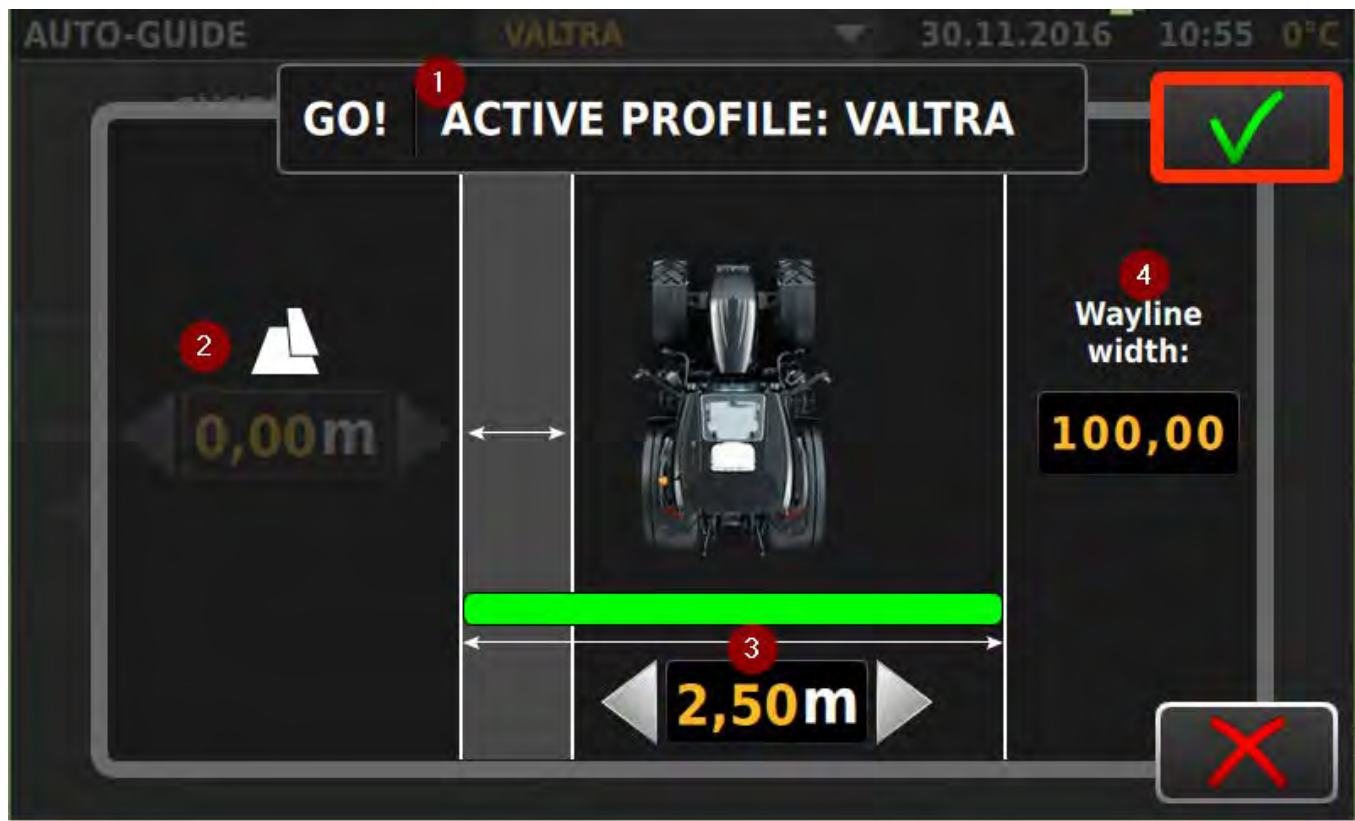
[Draft]

9.1.3 Add new wayline - GO! mode

NT03VUI-957 - Auto-Guide Add new wayline - GO! mode

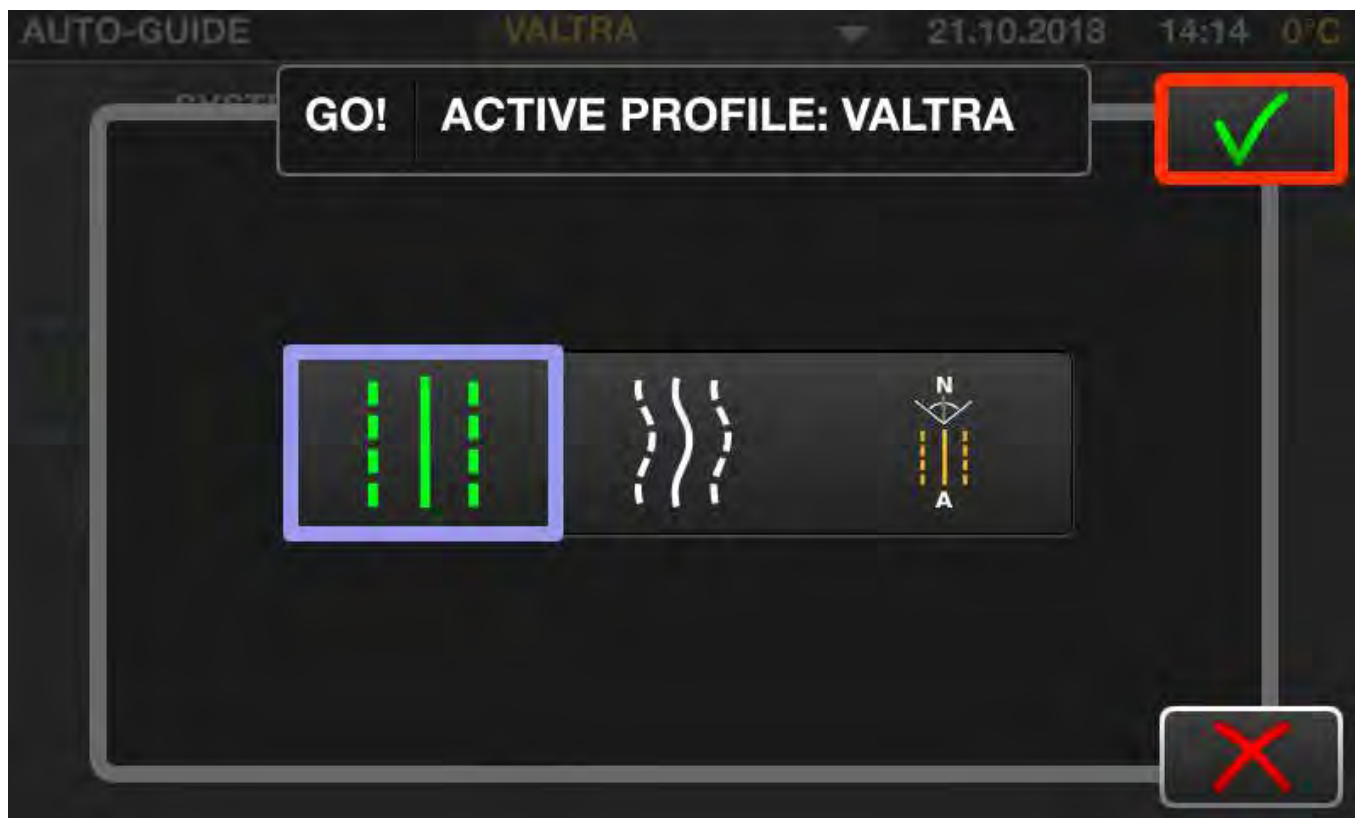


In GO! -mode it is easy and fast to start recording a new wayline. New wayline wizard is opened by pressing the green GO! -button on the Auto-Guide page.



First step is to set the wayline width. Initial implement width and offset values are from the active profile but these can be adjusted on this popup. Although these adjustments will not be saved to the profile.

1. Active profile
2. Overlap
3. Implement width
4. Wayline width



Once the wayline width is set it is time to select the wayline type. In GO! -mode the operator can choose the following wayline types:

1. A-B
2. Contour
3. A + Heading



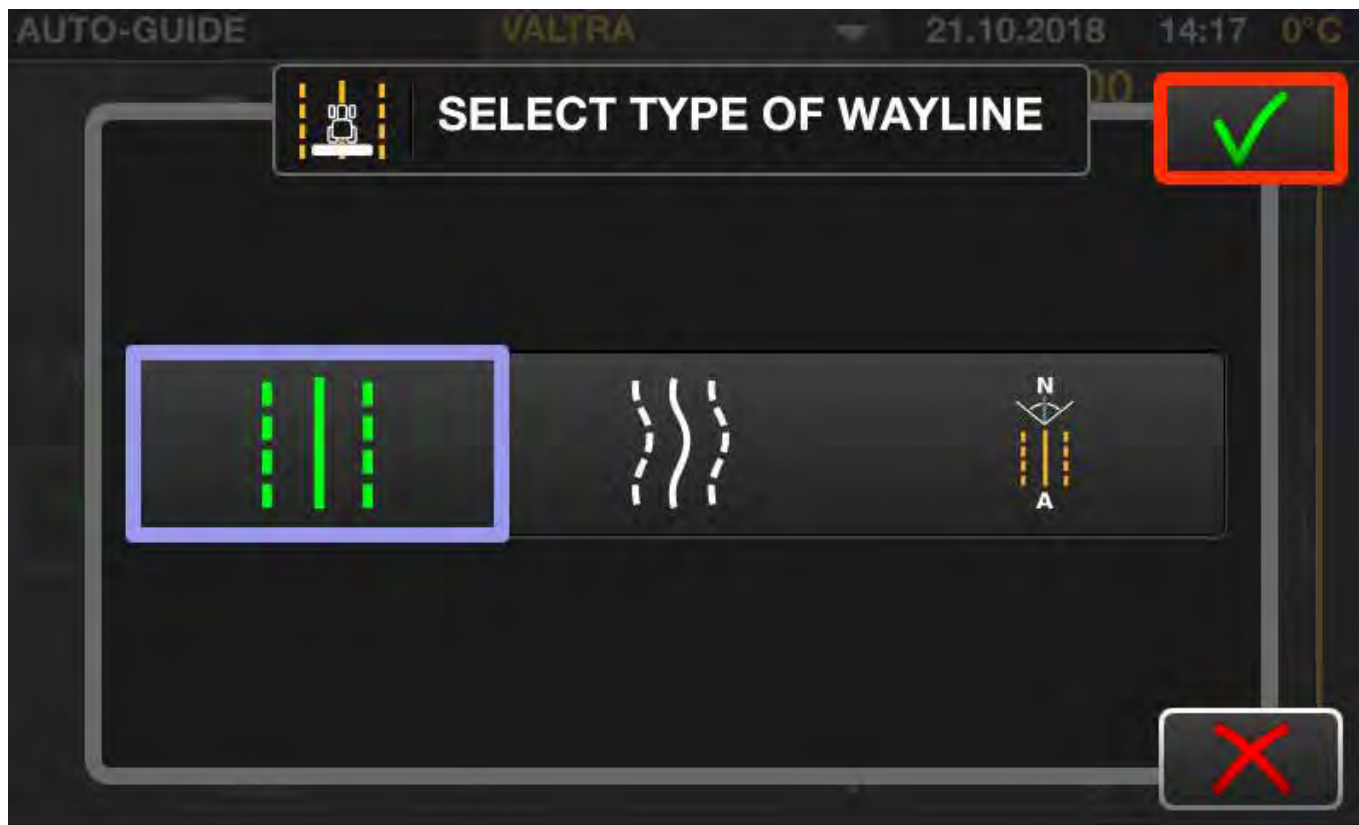
After wayline selection the application goes to Map -page where the operator can record the selected wayline. Wayline recording controls are visible on the right side of the page. Once the wayline is recorded the application will stay on the Map -page. [✎ Draft]

9.1.4 Add new wayline - Advanced

NT03VUI-977 - Auto-Guide Add new wayline - Advanced mode



Operator can add a new wayline by starting a wayline wizard by pressing this button on the Auto-Guide Advanced page.



First

step is to choose the desired wayline type. In advanced mode following wayline types are available:

1. A-B
2. Contour
3. A + Heading
4. Pivot
5. Manual A + Heading
6. Manual A-B
7. Manual Pivot



After wayline selection the application goes to Map -page where the operator can record the selected wayline. Wayline recording controls are visible on the right side of the page. Once the wayline is recorded the operator can save the recorded wayline and

after that the application returns to Auto-Guide Advanced page.

[ Draft]

9.1.5 Wayline types recording

NT03VUI-1021 - Wayline recording - A-B



Operator can record A-B wayline by selecting this option from the wayline selection switch.



1. Drop A-point. Visible until A-point is dropped.
2. Distance traveled after dropping A-point
3. Drop B-point. Button is enabled when minimum distance has been traveled (currently 10m)

[ Draft]

NT03VUI-1022 - Wayline recording - Contour



Contour wayline can be recorded by selecting this option from the wayline selection switch.



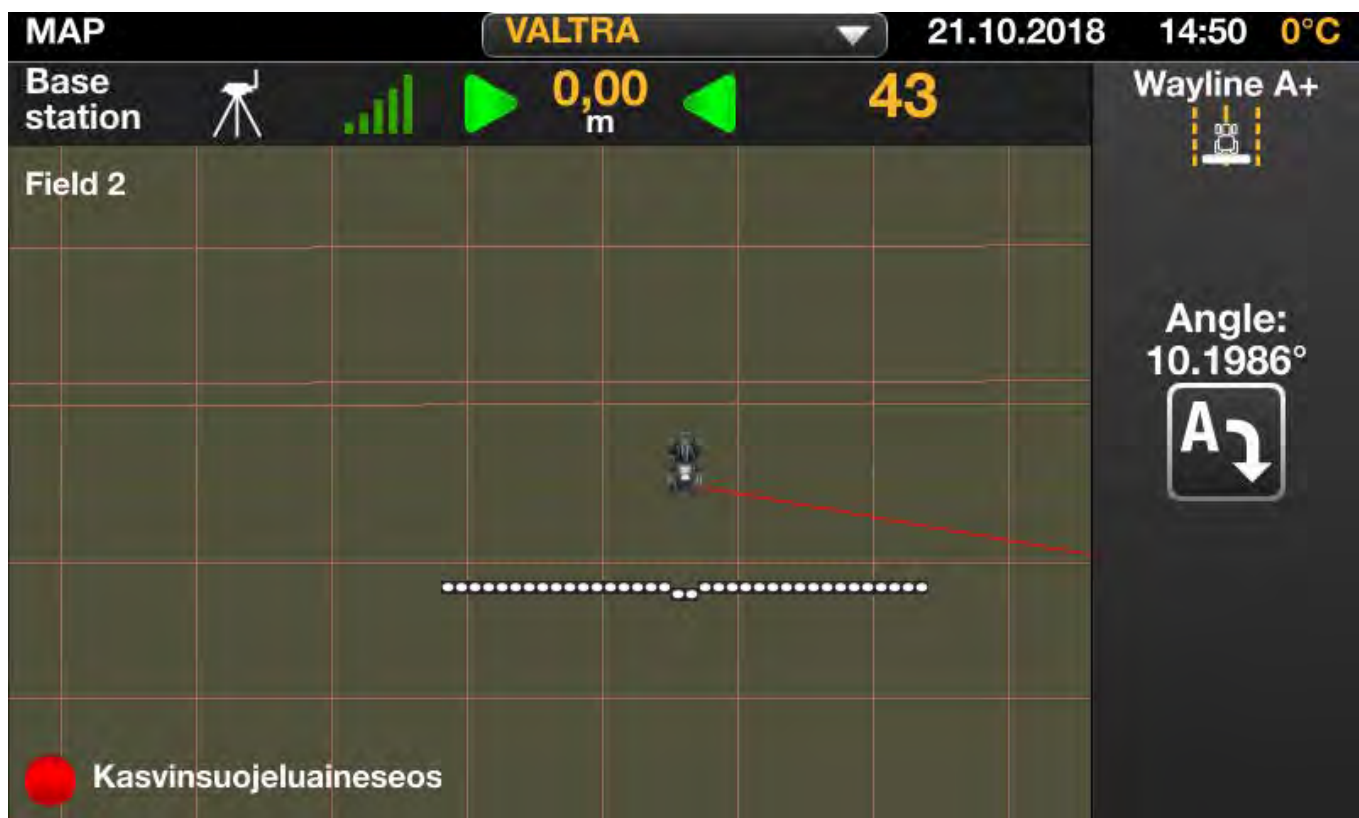
1. Start recording contour wayline
2. Pause recording
3. Stop recording

[ Draft]

NT03VUI-1023 - Wayline recording - A + Heading



Operator can record A+Heading wayline by selecting this option from the wayline selection switch.



1. Drop A-point. Visible until point is dropped
2. Set heading angle. Enabled after A-point is dropped.
3. Confirm selection. Enabled after A-point is dropped.

[ Draft]

NT03VUI-1024 - Wayline recording - Pivot



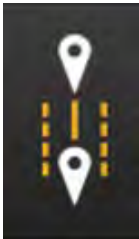
~~Operator can record pivot wayline by selecting this option from the wayline selection switch.~~

Not in use

- ~~1. Start recording a pivot wayline~~
- ~~2. Stop recording~~

[ Draft]

NT03VUI-1025 - Wayline recording - Manual A-B



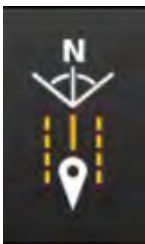
~~Operator can record manual A-B wayline by selecting this option from the wayline selection switch.~~

Not in use

- ~~1. Set north coordinates~~
- ~~2. Set east coordinates~~
- ~~3. Select coordinate system (DMS, DD)~~
- ~~4. Accept A-point~~

Same settings for B-Point [ Draft]

NT03VUI-1026 - Wayline recording - Manual A + Heading



~~Operator can record manual A + Heading wayline by selecting this option from the wayline selection switch.~~

Not in use

A-Point setting:

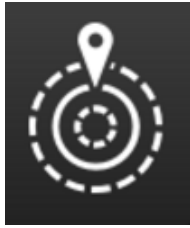
- ~~1. Set north coordinates~~
- ~~2. Set east coordinates~~
- ~~3. Select coordinate system (DMS, DD)~~
- ~~4. Accept A-point~~

Heading setting:

1. ~~Set heading~~
2. ~~Accept settings~~

[ Draft]

NT03VUI-1027 - Wayline recording - Manual pivot



~~Operator can record manual pivot wayline by selecting this option from the wayline selection switch.~~

Not in use

1. ~~Set north coordinates~~
2. ~~Set east coordinates~~
3. ~~Select coordinate system (DMS, DD)~~
4. ~~Accept manual pivot~~

[ Draft]

9.1.6 Connection settings popup

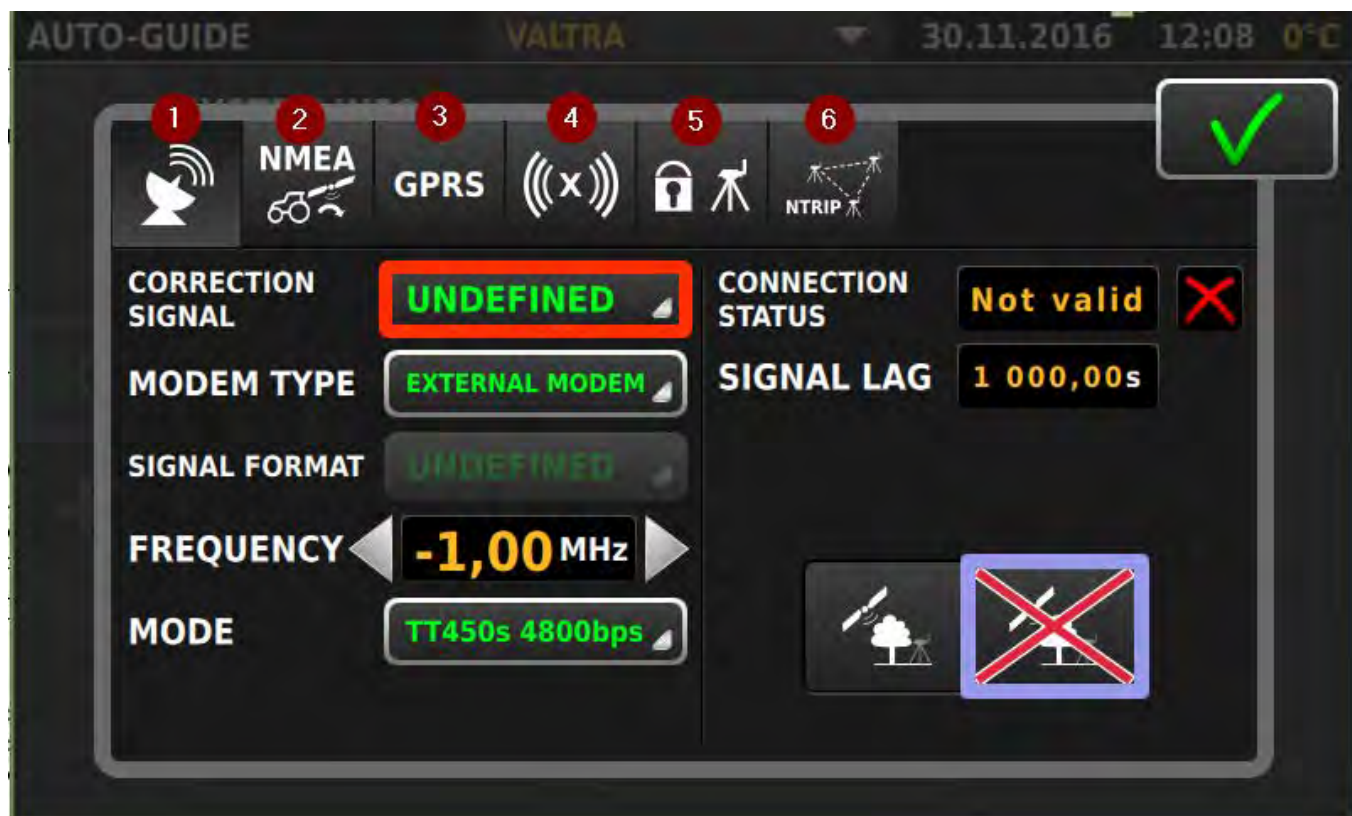
NT03VUI-959 - Connection settings popup

Connection settings popup consists of 6 settings tabs at maximum. Only tabs relevant for selected correction signal are displayed. Connection settings popup can be accessed from Auto-Guide page and from Connectivity page by pressing the following button:



Connection settings popup can also be opened by pressing the following button, in which case the GPRS tab is automatically activated:



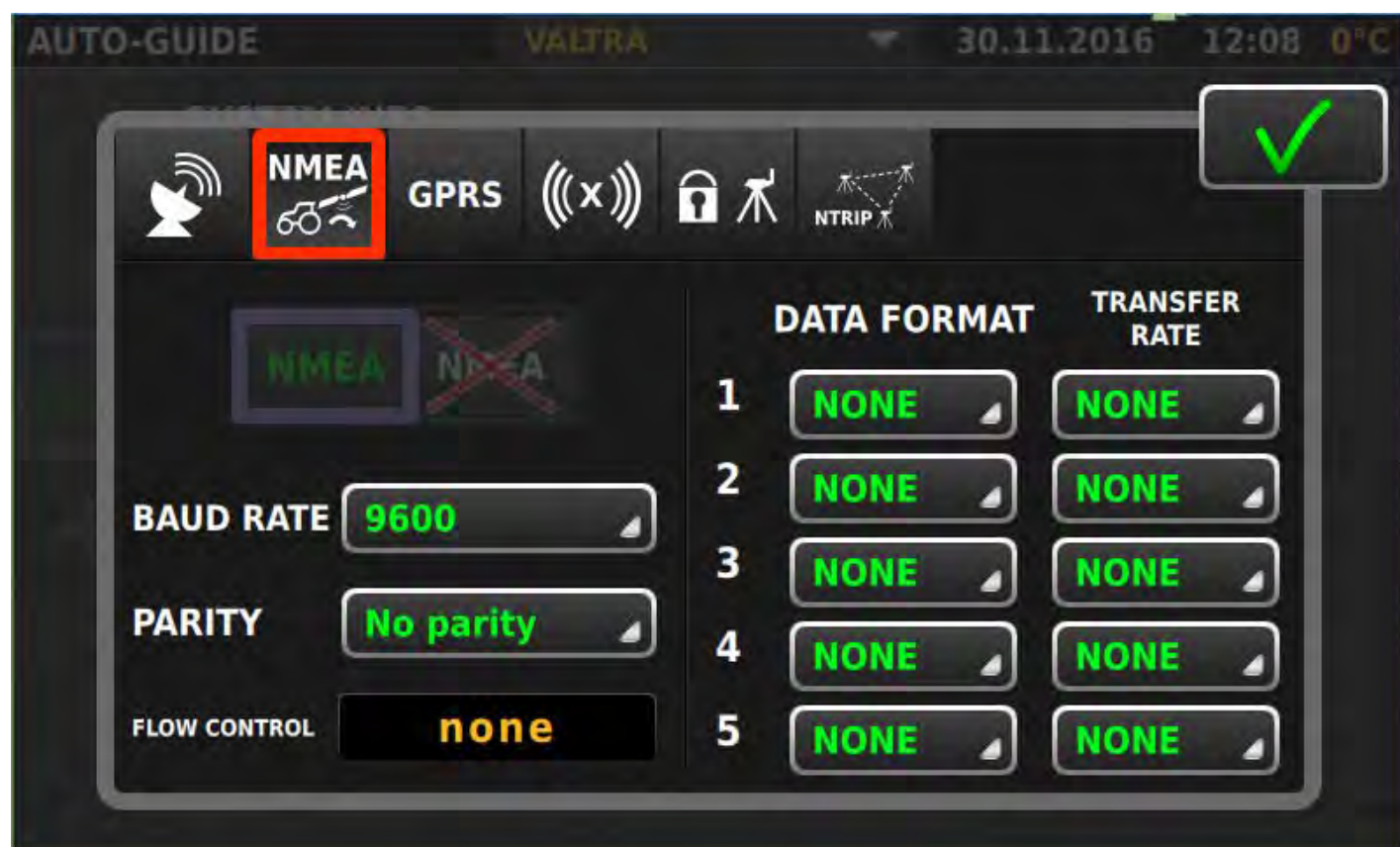


Possible tabs are:

1. Correction signal
2. NMEA
3. GPRS
4. xFill
5. Secure RTK
6. NTRIP

[Draft]

NT03VUI-960 - Auto-Guide NMEA settings



NMEA settings are part of the Connection settings popup

[Draft]

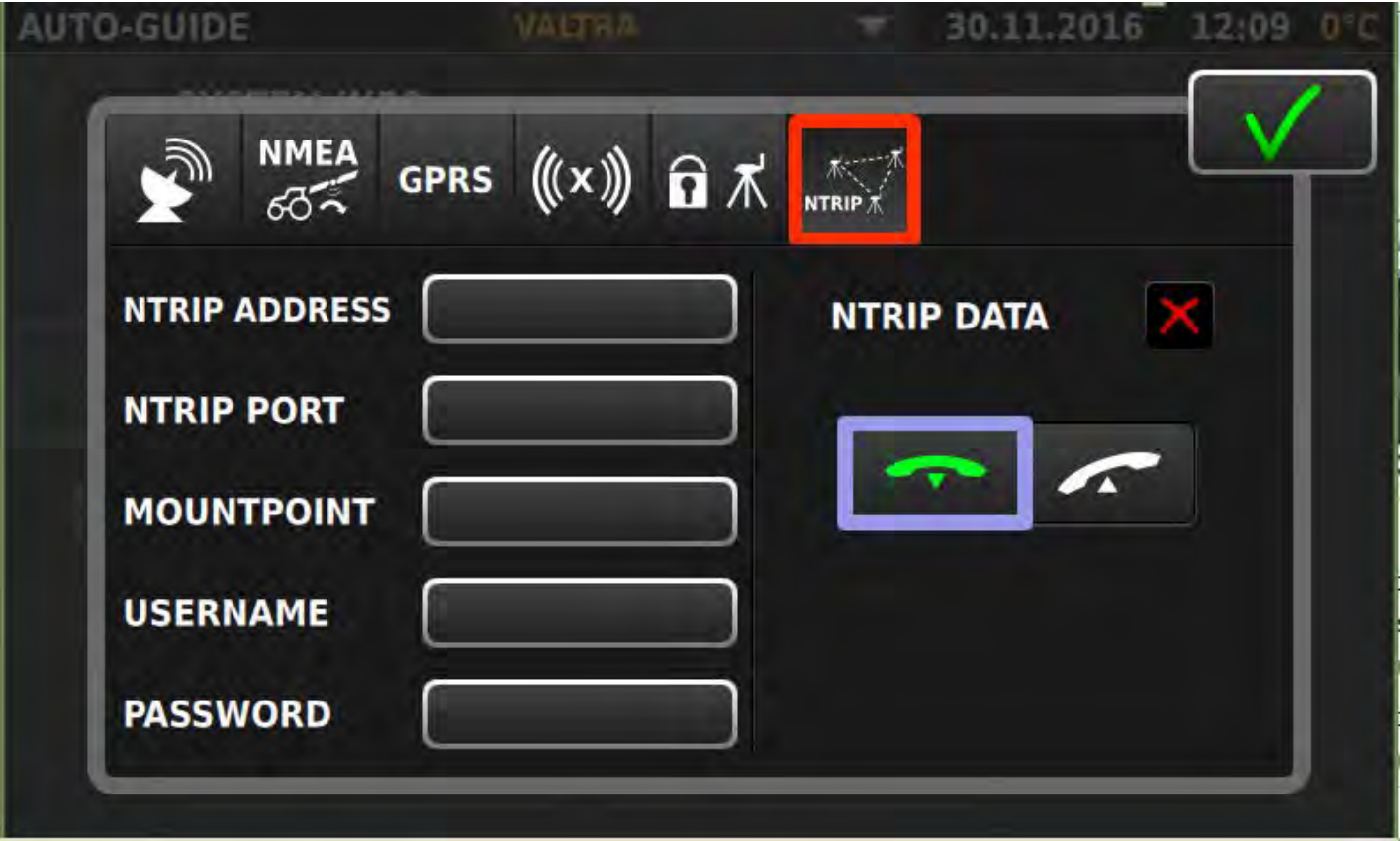
NT03VUI-961 - GPRS settings



GPRS settings are part of the connection settings popup

[Draft]

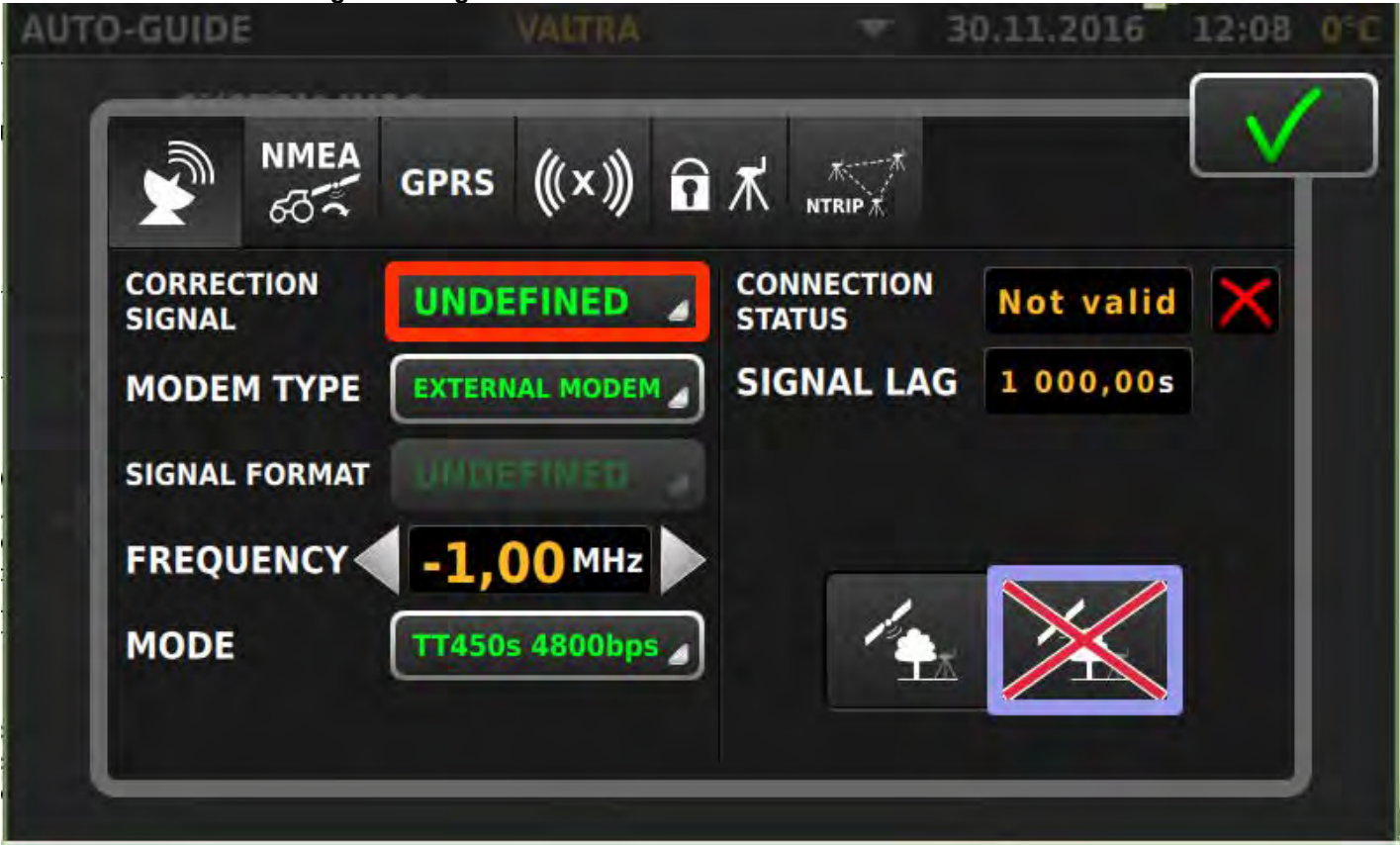
NT03VUI-962 - NTRIP settings



NTRIP settings are part of the connection settings popup

[Draft]

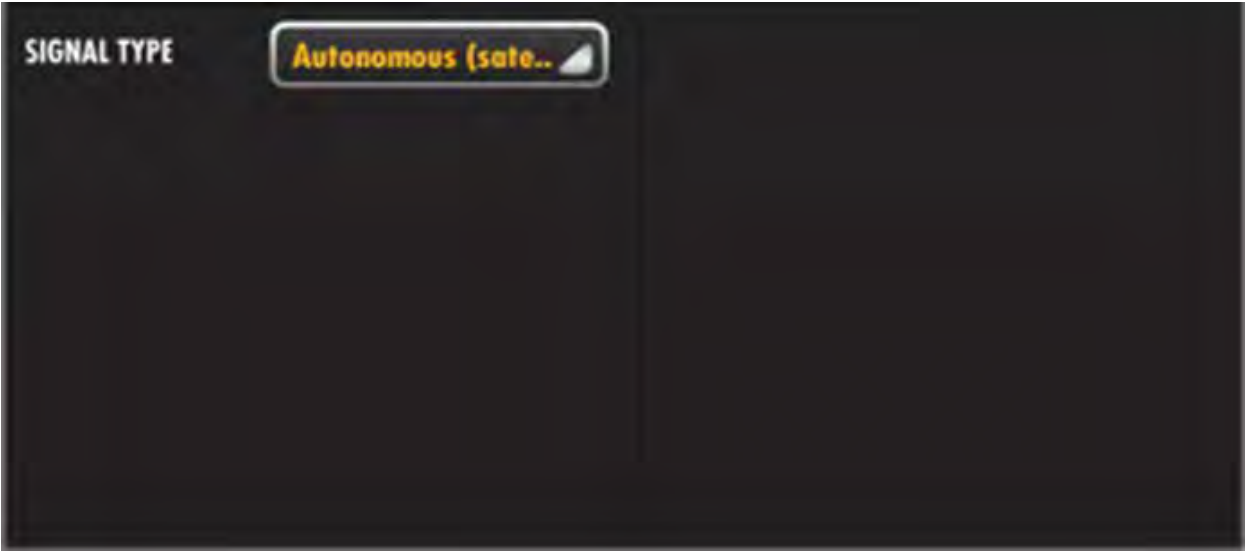
NT03VUI-963 - Correction signal settings tab



Correction signal settings tab's content depends on the selected correction signal. Correction signal settings are part of the connection settings popup.

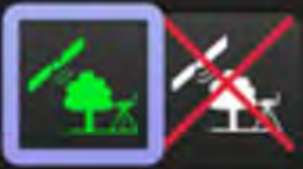
[Draft]

NT03VUI-964 - Correction signal settings - Autonomous



[Draft]

NT03VUI-965 - Correction signal settings - Base station (External Base)

SIGNAL TYPE	BASE STATION	CONNECTION STATUS	CONNECTED ✓
BASE TYPE	EXTERNAL BASE	SIGNAL LAG	9999
SIGNAL FORMAT	RTCM 3.1	DISTANCE TO BASE	0 m
BAUD RATE	115200		
PARITY	NONE		

[Draft]

NT03VUI-966 - Correction signal settings - Base Station (Valtra Base - Trimble modem)

SIGNAL TYPE	BASE STATION	CONNECTION STATUS	CONNECTED ✓
BASE TYPE	VALTRA BASE	SIGNAL LAG	9999
SIGNAL FORMAT	CMR	DISTANCE TO BASE	0 m
FREQUENCY	433.5500 MHz		
MODE	TT450s 4800bps		

[Draft]

NT03VUI-967 - Correction signal settings - Base Station (Valtra Base - Satel modem)

SIGNAL TYPE	BASE STATION	CONNECTION STATUS	CONNECTED ✓
BASE TYPE	VALTRA BASE	SIGNAL LAG	9999
SIGNAL FORMAT	RTCM 3.1	DISTANCE TO BASE	0 m
FREQUENCY	433.5500 MHz		
CHANNEL SPACING	25.0		
ERROR CORRECTION	OFF		

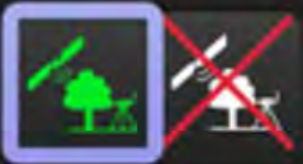
[Draft]

NT03VUI-968 - Correction signal settings - Base station (NovAtel receiver)

SIGNAL TYPE	BASE STATION	CONNECTION STATUS	CONNECTED ✓
BASE TYPE	VALTRA BASE	SIGNAL LAG	9999
SIGNAL FORMAT	RTCM 3.1	DISTANCE TO BASE	0 m
FREQUENCY	433.5500 MHz		
CHANNEL SPACING	25.0		
ERROR CORRECTION	OFF		

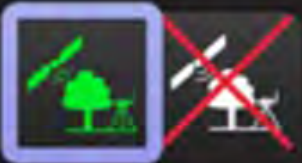
[✎ Draft]

NT03VUI-969 - Correction signal settings - CenterPoint RTX

SIGNAL TYPE	CenterPoint RTX	CONNECTION STATUS	CONNECTED ✓
RTX TYPE	RTX STANDARD	SIGNAL LAG	9999
FREQUENCY	433.5500 MHz		
BAUD RATE	600		
SERIAL NUMBER	55221216165		
EXPIRY DATE	1/1/17		

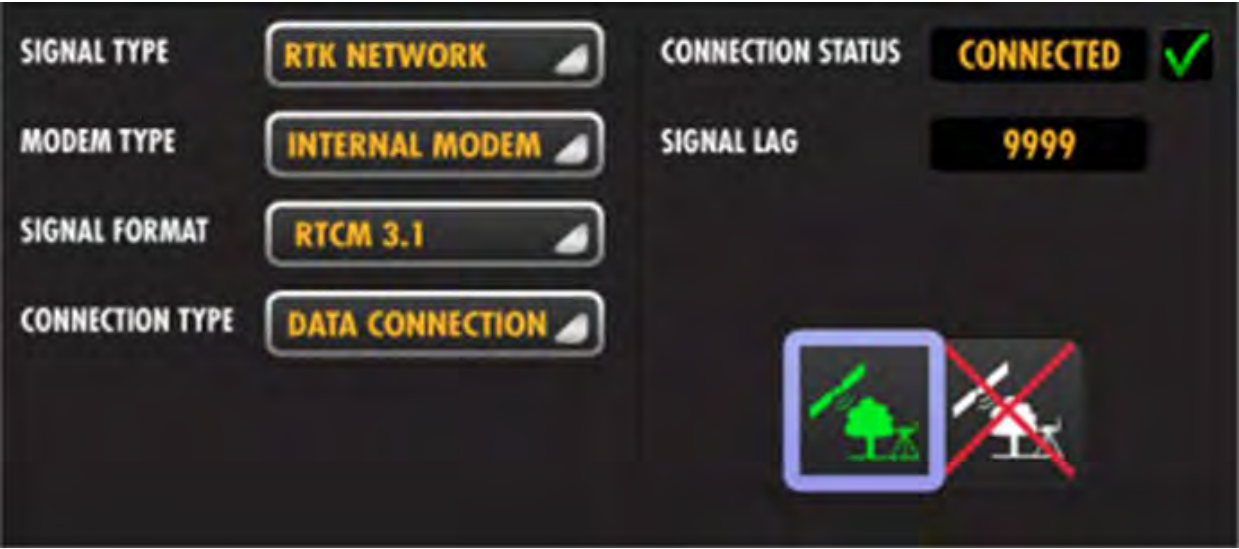
[✎ Draft]

NT03VUI-970 - Correction signal settings - EGNOS / WAAS

SIGNAL TYPE	EGNOS/WAAS	CONNECTION STATUS	CONNECTED ✓
		SIGNAL LAG	9999
EGNOS/WAAS SATELLITE NUMBERS HERE?			
			

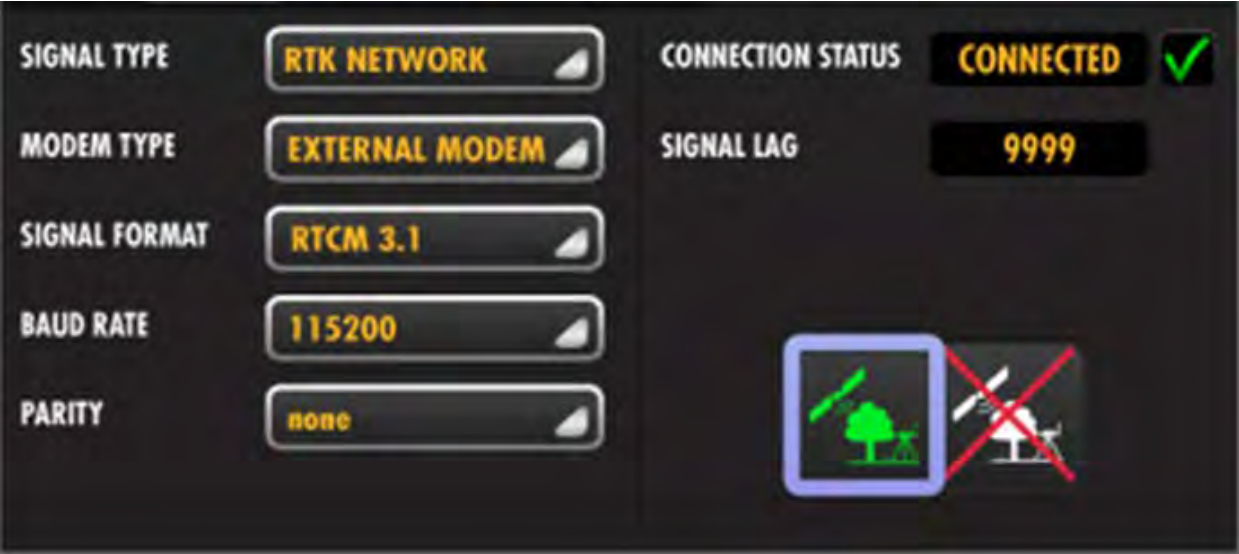
[✎ Draft]

NT03VUI-971 - Correction signal settings - RTK (Internal modem)



[ Draft]

NT03VUI-972 - Correction signal settings - RTK (External modem)



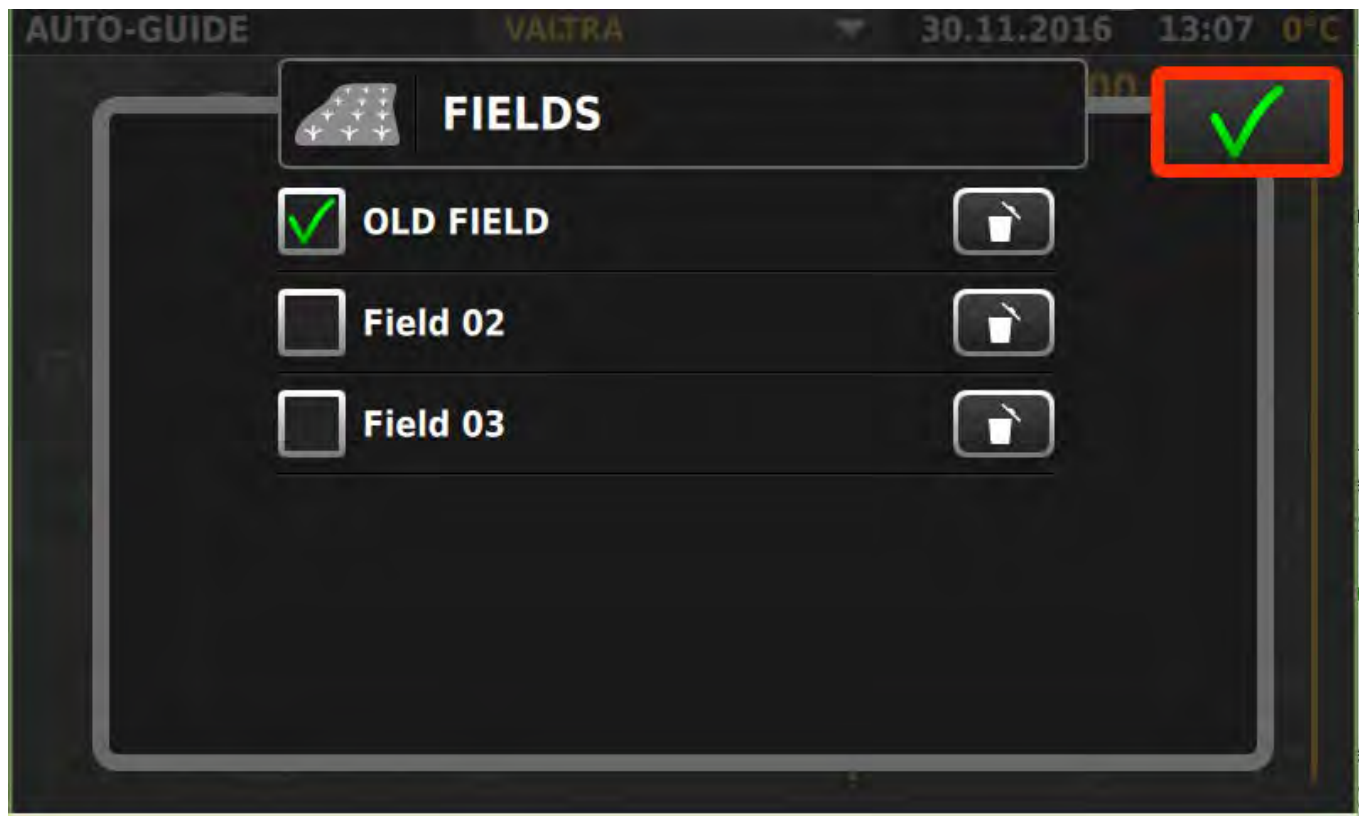
[ Draft]

9.1.7 Fields configuration popup

NT03VUI-974 - Fields configuration popup



Operator can open the fields configuration popup by pressing this button on the Auto-Guide Advanced page.



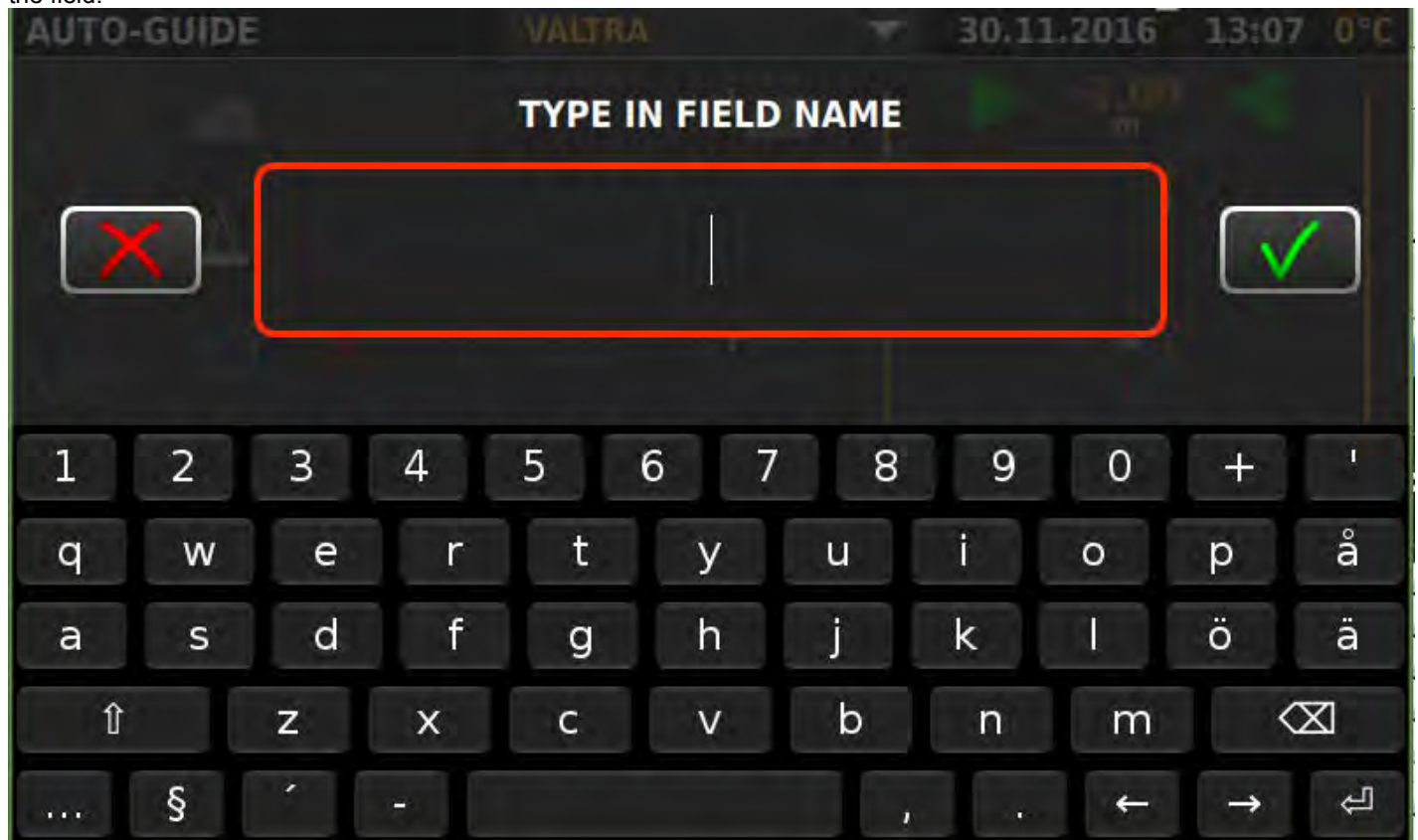
From the fields configuration popup the operator can see all the saved fields, change the current field and delete fields. [✎ Draft]

9.1.8 Add new field popup

NT03VUI-975 - Auto-Guide - Add new field



Operator can add a new field by pressing this button on the Auto-Guide Advanced page and then typing in the desired name for the field.



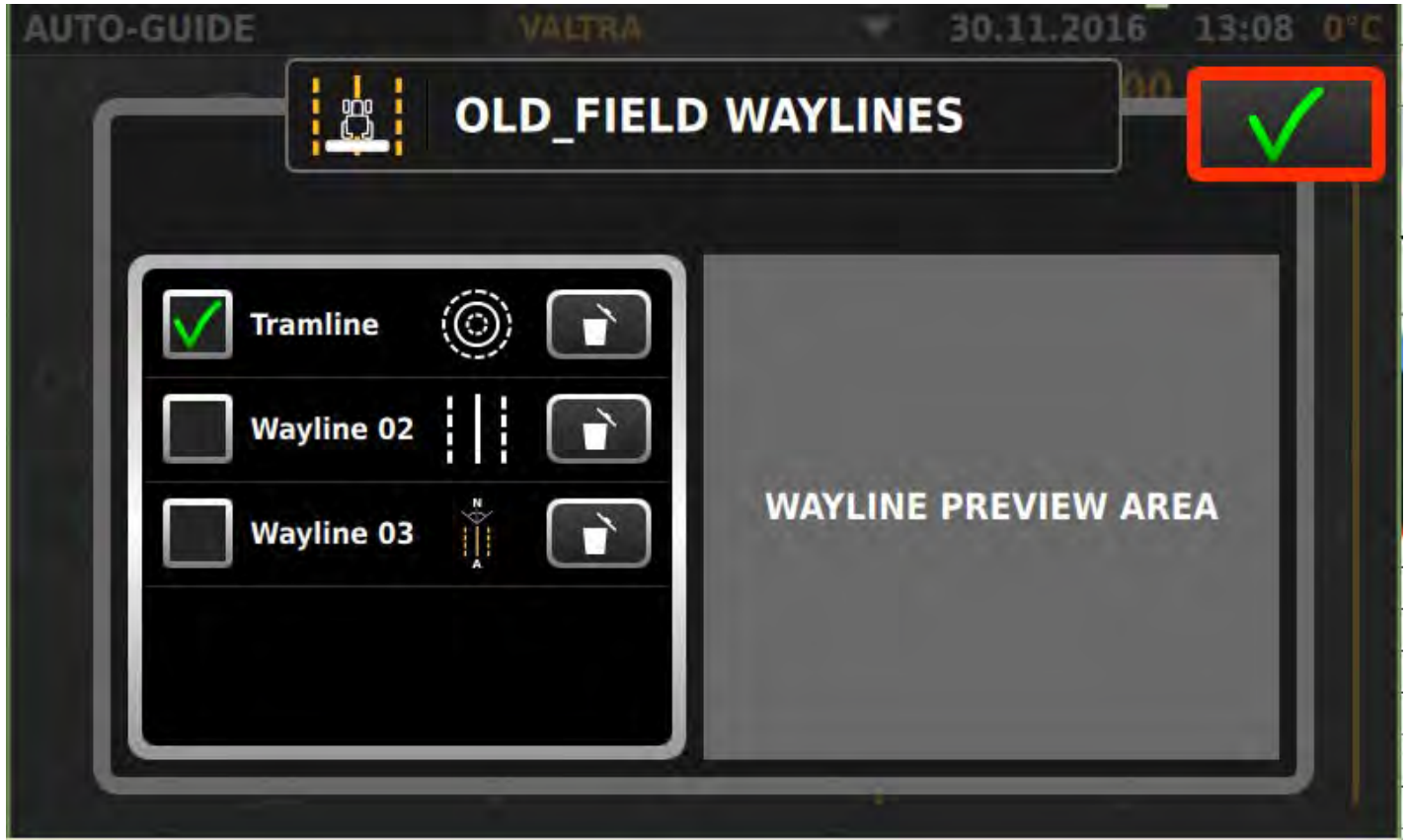
Virtual Keyboard to type in the field name. [✎ Draft]

9.1.9 Waylines configuration popup

NT03VUI-976 - Waylines configuration popup



Operator can open the waylines configuration popup by pressing this button on the Auto-Guide advanced page.



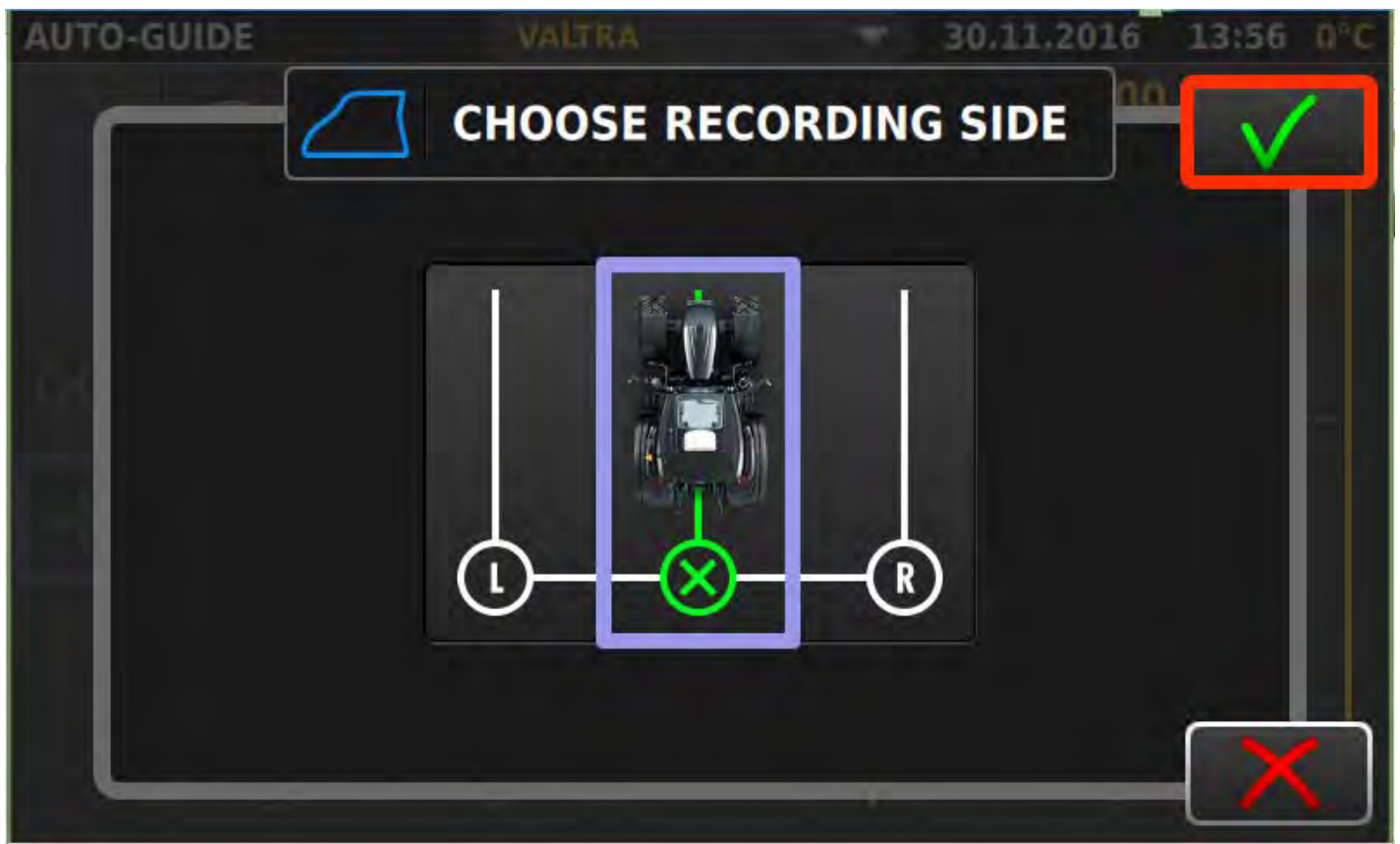
From this popup the operator can see waylines of the selected field. It is also possible to change the active wayline or to delete waylines. Small preview area for the selected wayline type is on the right side of the popup. [Draft]

9.1.10 Add field border

NT03VUI-978 - Auto-Guide - Add field border



Operator can add a border to selected field by pressing this button on the Auto-Guide Advanced page.



Operator has to choose the recording side first: left, right or center. Once the selection is done the operator can start recording the border.

[ Draft]

9.1.11 Obstacles configuration popup

NT03VUI-979 - Auto-Guide - Obstacles configuration popup



Obstacles configuration popup can be accessed by pressing this button on the Auto-Guide advanced page.



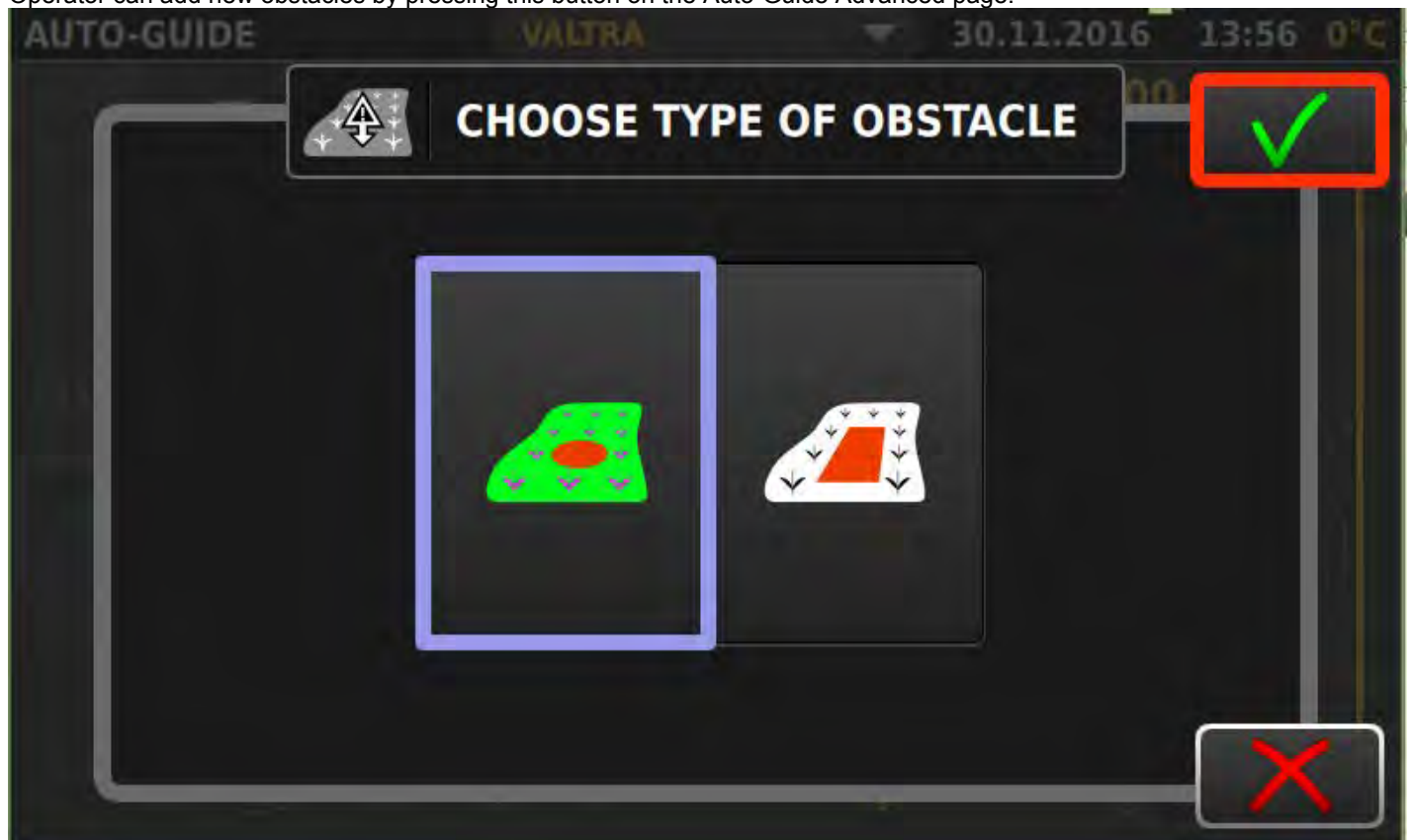
Operator can view and remove saved obstacles. [✎ Draft]

9.1.12 Add new obstacle

NT03VUI-980 - Auto-Guide - Add new obstacle



Operator can add new obstacles by pressing this button on the Auto-Guide Advanced page.



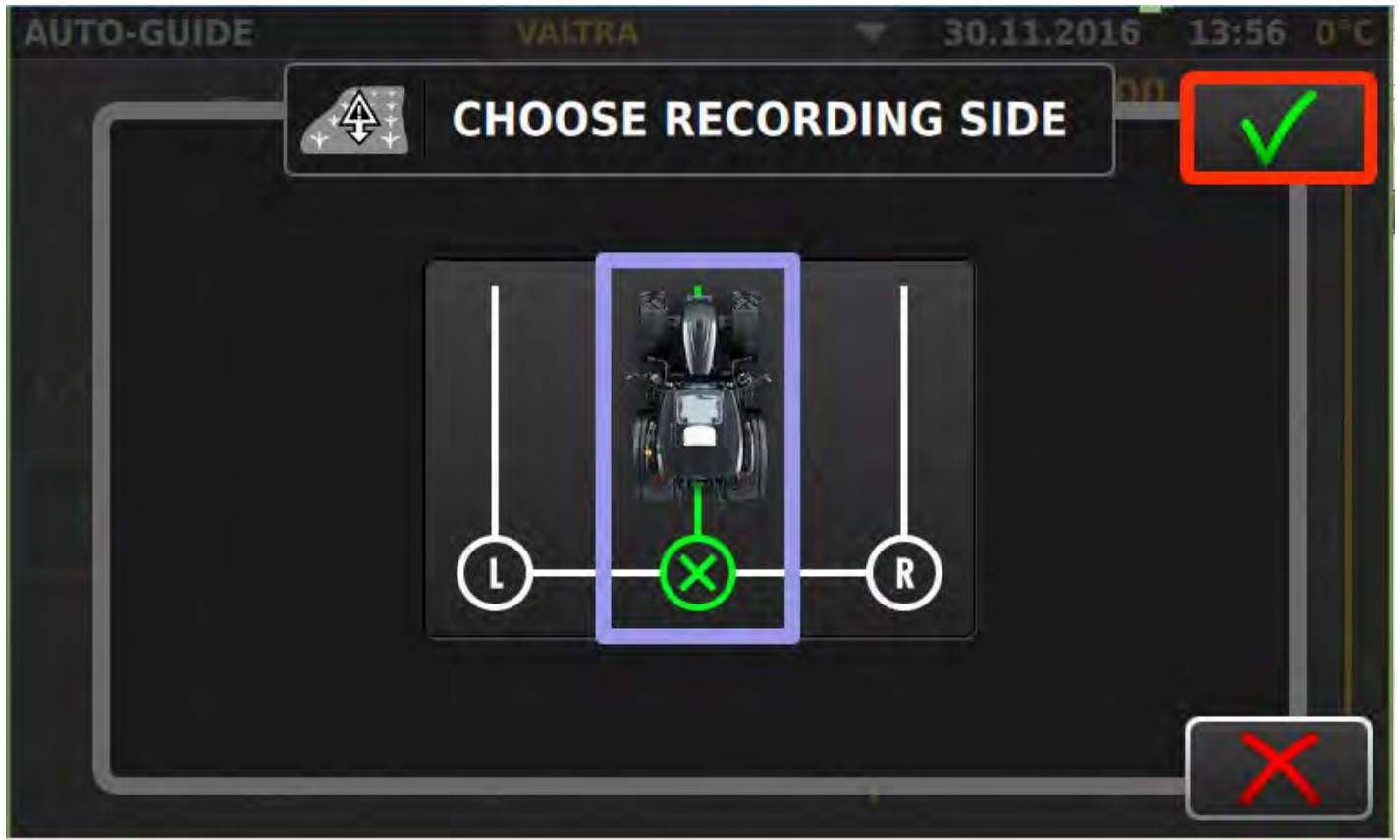
First step is to choose type of obstacle. Different types are:



Point obstacle



Area obstacle



After selecting the type of obstacle operator needs to select the recording side: left, right or center. After this the operator can record the obstacle and save it.

[ Draft]

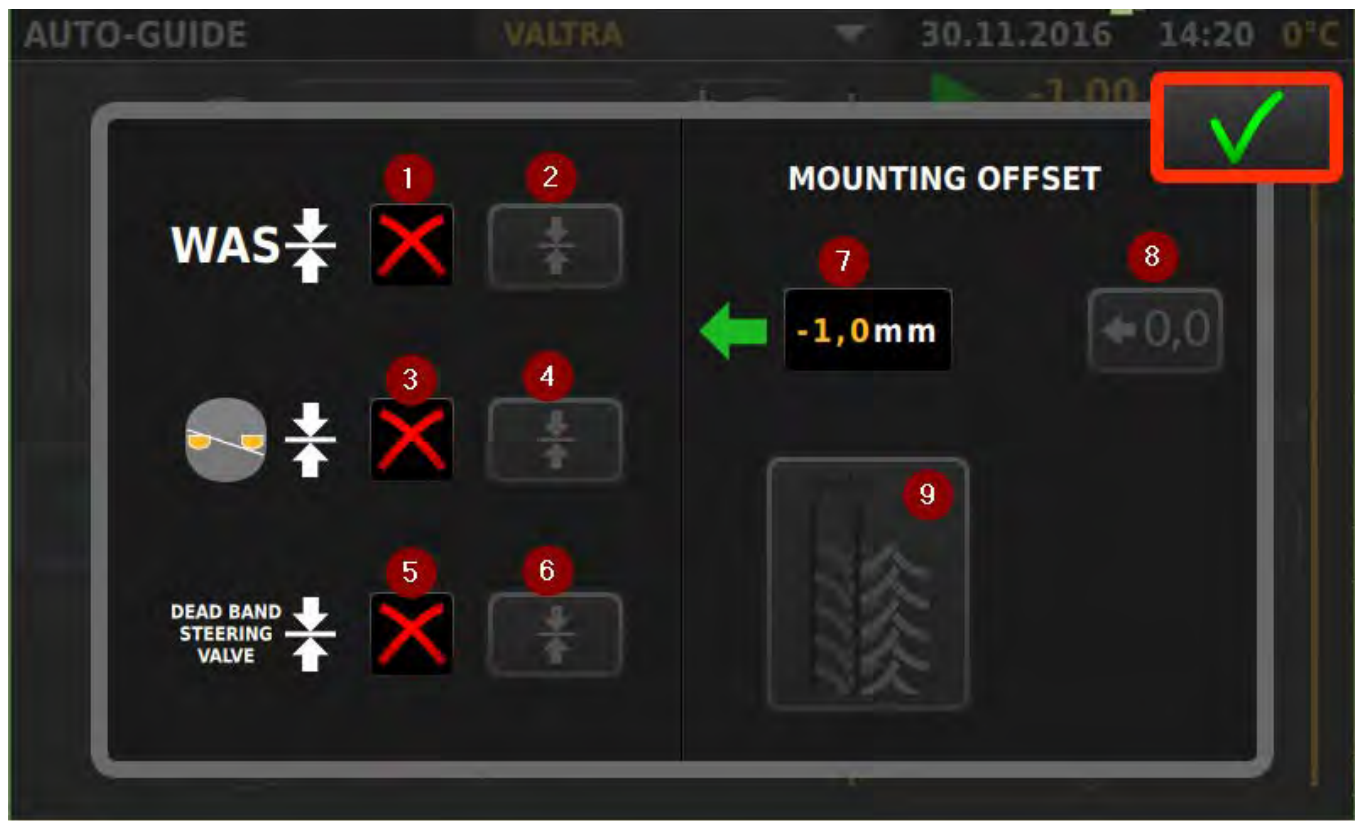
9.1.13 Calibrations popup

NT03VUI-989 - Calibrations popup



Calibrations popup can be accessed by pressing this button on the Auto-Guide Advanced page.

Need update!



1. Wheel angle sensor calibrated status
2. Start wheel angle sensor calibration
3. IMU calibrated status
4. Start IMU calibration
5. Dead band steering valve calibrated status
6. Start dead band steering valve calibration
7. Current navigation controller mounting offset
8. Reset mounting offset
9. Start wizard to adjust mounting offset

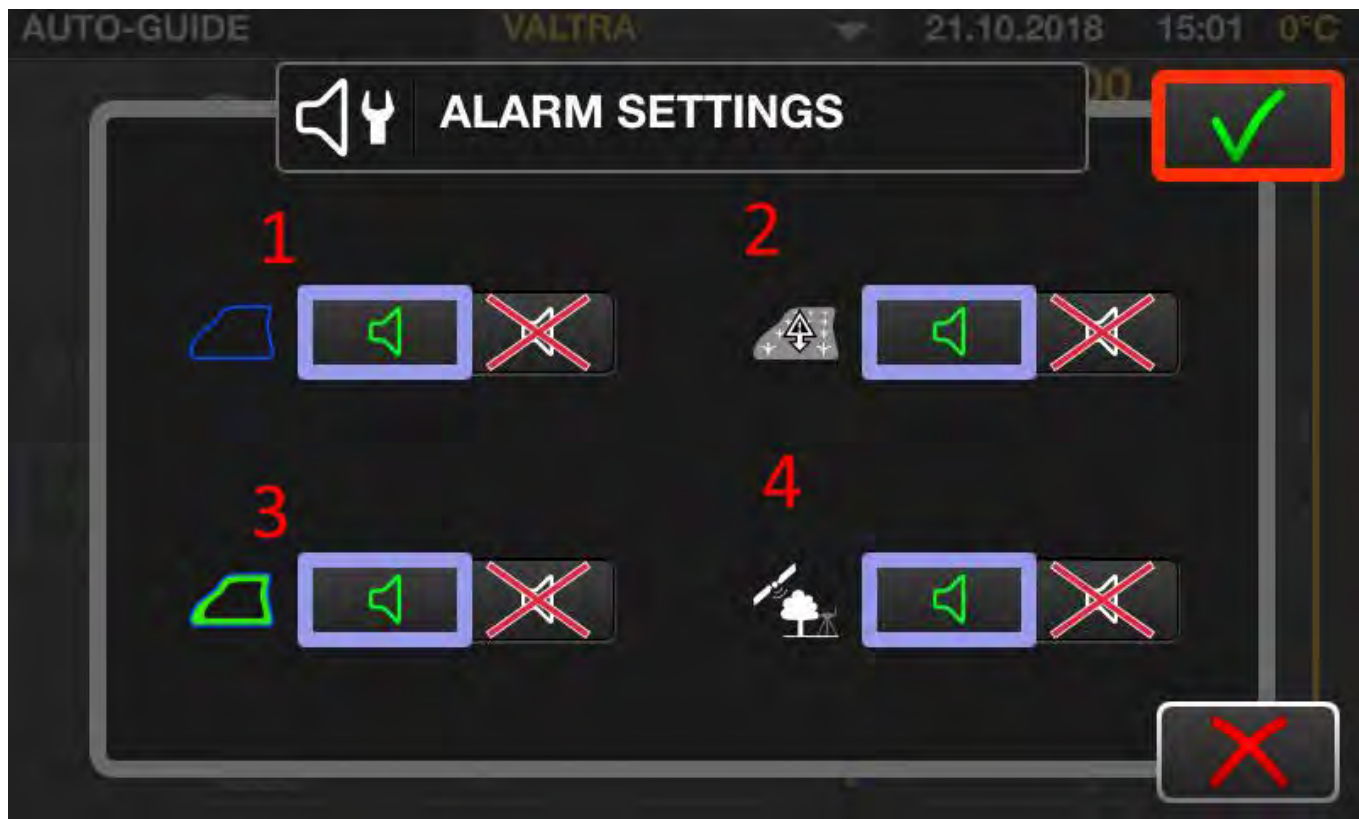
[ Draft]

9.1.14 Alarm settings popup

NT03VUI-990 - Auto-Guide - Alarm settings popup



Alarm settings popup can be accessed by pressing this button on the Auto-Guide Advanced page.



Alarm settings popup has settings for:

1. Boundary alarm
2. Obstacle alarm
3. Wayline alarm
4. fallback alarm

[ Draft]

9.1.15 Manual nudge offset setting

NT03VUI-991 - Manual nudge offset step setting



Operator can set manual nudge offset step by pressing this button on the Auto-Guide Advanced page.



Manual nudge offset step can be input with a number pad component.

[ Draft]

NT03VUI-992 - Manual nudge offset setting

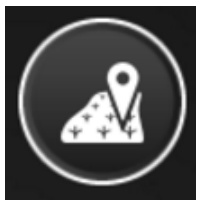


Operator can increase and decrease the manual nudge offset with these buttons on the Auto-Guide Advanced page. Nudge offset is decreased/increased by the amount set in the nudge offset step.

[ Draft]

9.2 Field Map

NT03VUI-1028 - Field map page



Field map page can be accessed by pressing this button on the settings home page.



1. Field name
2. Selected correction signal
3. Correction signal quality
4. Cross Track display
5. Current wayline number
6. Variable rate control activated
7. Section control status (Auto or manual)
8. Steering controller status
9. rec/pause task
10. Zoom map
11. Toggle between 2D/3D modes
12. Center to tractor (visible if dragged from map view)
13. compass
14. task name and current status (REC/PAUSE)
15. open map legends

[Draft]

NT03VUI-1032 - Field map side menu

Operator can open a side menu by tapping anywhere on the field map view. Side menu contains more map related setting.



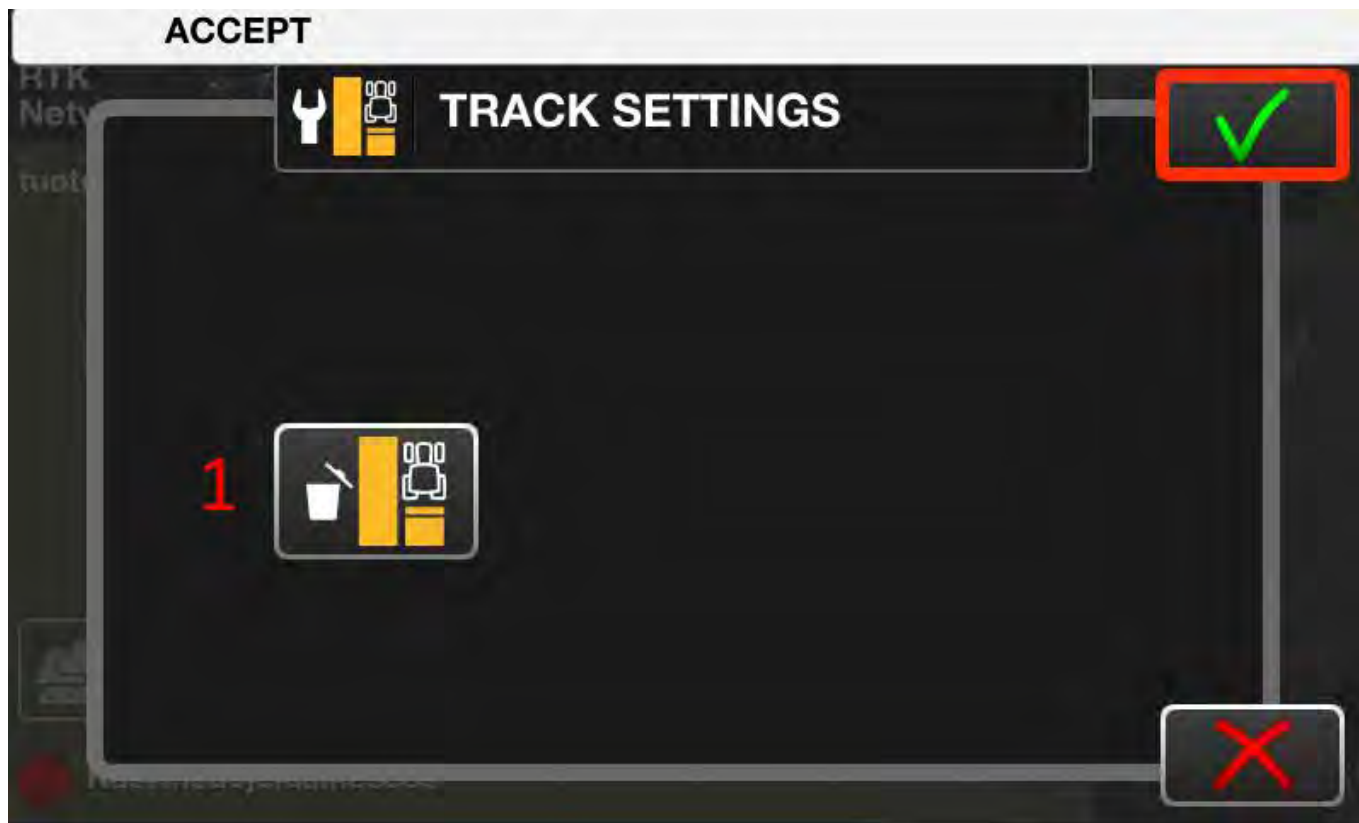
1. Track settings
2. Section control settings
3. Map layers
4. Auto-Guide settings

[ Draft]

NT03VUI-1586 - Track settings

Accessed from map side menu





1. erase worked area from current field [Draft]

NT03VUI-1587 - Map layers

Accesed from map side menu



active map layer

Select

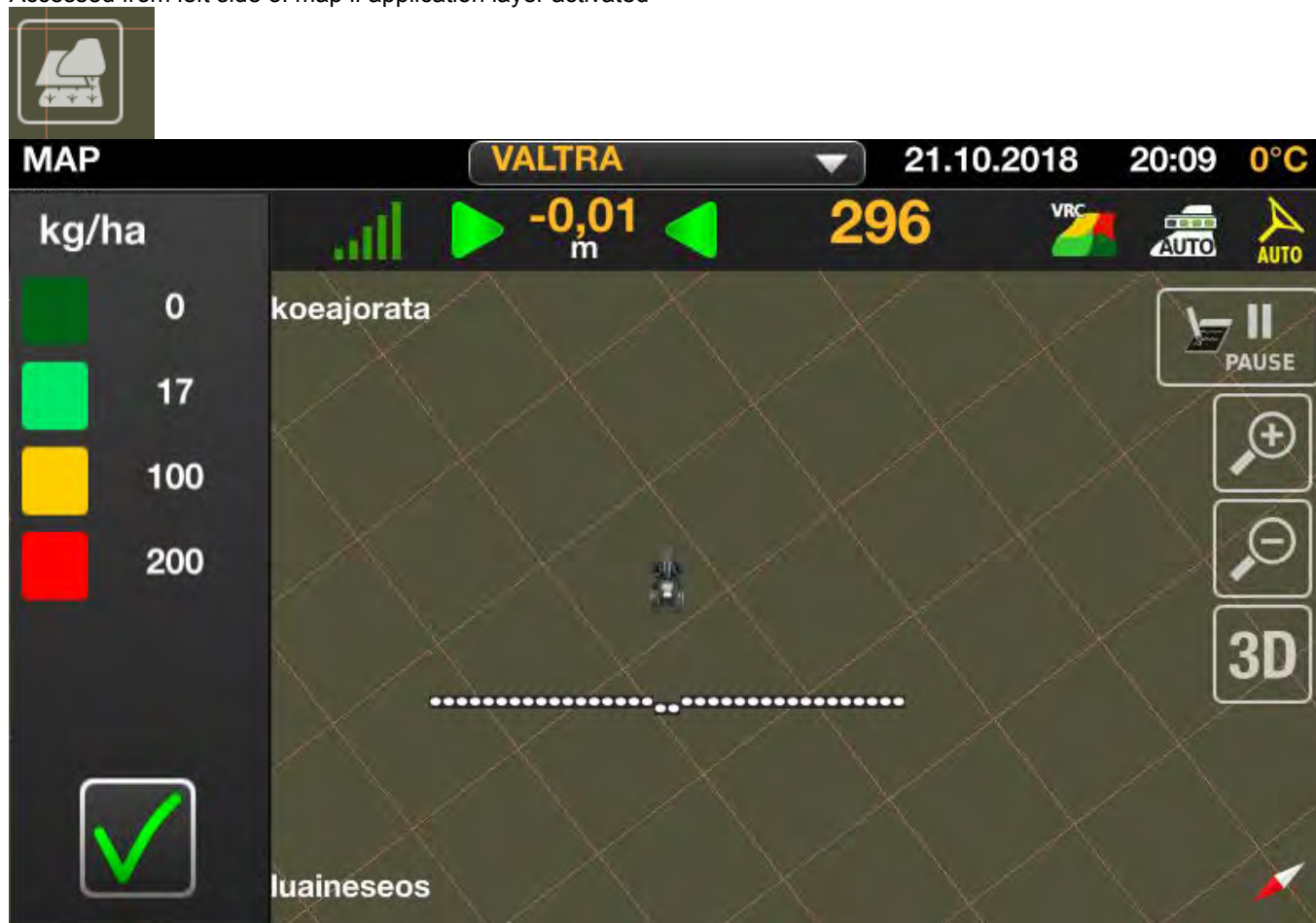
1. No layer
2. Worked area layer

3. Actual value layer
4. Application layer

[ Draft]

NT03VUI-1588 - Map legends

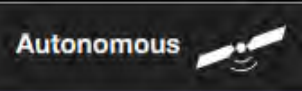
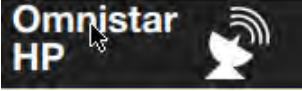
Accessed from left side of map if application layer activated

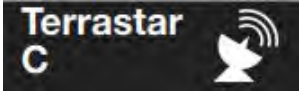
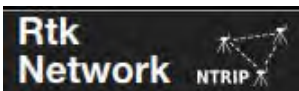
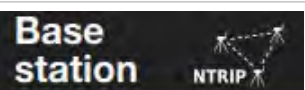
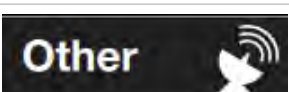


[ Draft]

NT03VUI-1029 - Selected correction signal indicator

Selected correction signal and corresponding icon is displayed on the top bar of map page.

Correction signal	Icon
Autonomous	
Egnos	
Waas	
Omnistar VBS	
Omnistar HP	
Pace	

Terrastar C	
RangePointRTX	
CenterPointRTX	
xFill	
RTK	
Base station	
Other	

 Draft]

NT03VUI-1030 - Receiver accuracy display

Receiver accuracy bar displays how good the accuracy is for the selected correction signal.

 Draft]

NT03VUI-1031 - Cross track display

Cross track display shows the current cross track value and two direction arrows to display severity and direction of cross track error. Arrows are on the both sides of the cross track value and they change color depending on how big the cross track error is for the selected correction signal.

Cross track error	Symbol
Small	
Medium left	
Large left	
Medium right	
Large right	

 Draft]

NT03VUI-1033 - Steering controller status display

Steering controller status is displayed on the top bar of the map page.

Steering controller status	SCT status icon
Steering controller OFF	
Steering controller pre-activated	
Steering controller activated	
Activation not possible / Error state	

[ Draft]

9.2.1 Marker settings popup



Marker settings popup is opened by pressing this button on the map page side menu.

Not in use

9.2.2 Track settings popup



Track settings popup is opened by pressing this button on the map page side menu.

9.2.3 Prescription map settings popup

9.2.4 As-applied map settings popup

9.2.5 Auto-Guide Informative / Error Message Popup

NT03VUI-1132 - Auto-Guide shall show message when something is not correct

Auto-Guide is constantly watching over several signals which affect to the functionality of the Auto-Guide. Therefore Auto-Guide shall show informative / error message when needed.

Messages shall be defined on separate requirement.

[ Draft]

9.3 Field Map 2.0

Field map 2.0 is a concept where Auto-Guide settings are more integrated to the field map page. Main goal is to reduce the need to navigate between different pages when working with precision farming features.

The first version of Map 2.0 will be released in EDT 2019.4. With this release the old Auto-Guide settings page is removed and everything is integrated in to the Map view.

NT03VUI-1669 - Map 2.0 Full screen

New map contains all information from previous version, but some information indicators are now buttons. This way the user has more straightforward path to relevant settings.

Side bar visibility can be toggled by tapping on the map.



1. Steering controller status.  [NT03VUI-1033 - Steering controller status display](#)
Pressing this button will open Auto-Guide status overview popup.
2. Selected correction signal.  [NT03VUI-1029 - Selected correction signal indicator](#)
Pressing this button will open correction signal popup.
3. Correction signal accuracy in bars.
Pressing this button will open signal accuracy and position overview popup.
4. Current wayline number.
5. Cross Track display.  [NT03VUI-1031 - Cross track display](#)
Pressing this will open nudge offset settings.
6. SectionControl Manual/Auto indicator
Pressing this will open SectionControl settings popup.
7. VRC indicator.
Pressing this will open prescription map overview popup.
8. Field name.
Pressing this will open field popup.

9. Zoom in.
10. Zoom out. When maximum zoom out level is reached, the field overview is displayed.
11. Change between map 2D/3D modes.
12. Map layers selection.
13. Name and status of active task.

[ Draft]

NT03VUI-1694 - Map pan mode

User can activate map's pan mode by simply dragging the map view. When pan mode is active, center map button is displayed under layers button (1).



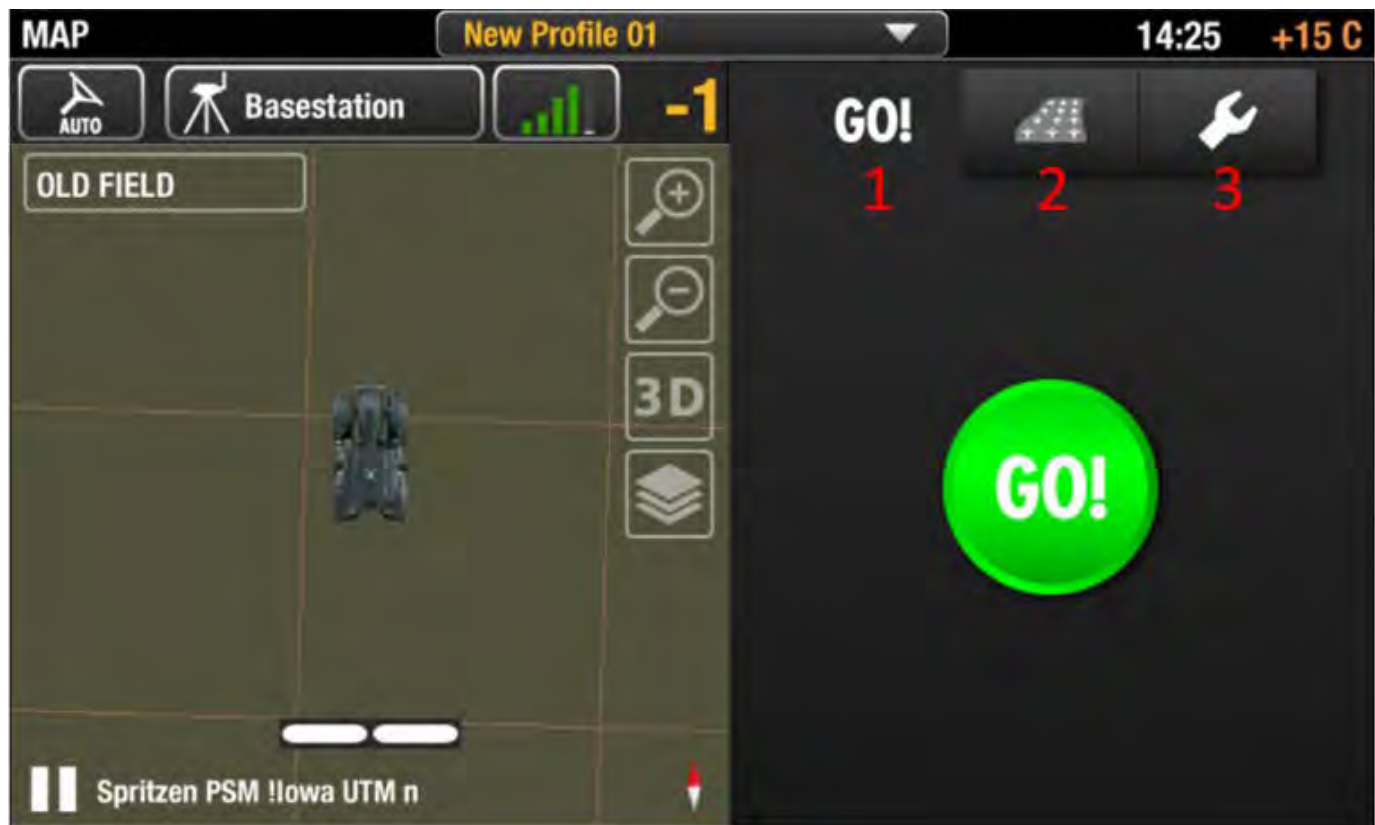
1. Center map

[ Draft]

9.3.1 Map side menu

NT03VUI-1672 - Map side menu

When map view is tapped a side bar is shown. Side bar will be shown next to map view. Map view is scaled down next to side bar. The user can select between three different side bar modes.



1. GO!-mode
2. Field mode
3. Settings mode

[Draft]

9.3.1.1 GO!-mode

NT03VUI-1679 - GO!-mode

With GO!-mode it is quick and easy to set path-to-path distance and start recording basic wayline types for selected field.



1. Start GO!-mode wizard

[Draft]

9.3.1.2 Field mode

NT03VUI-1678 - Field mode



1. Set steel implements worked area painting to ON or OFF. Disabled if ISOBUS implement is attached.
2. Selected wayline.
Pressing this will open waylines popup. [9.3.4-2 - Waylines popup](#)
3. Open Add new wayline popup. [9.3.7 - Add new wayline popup](#)
4. Area for recorded boundary.
Pressing this will open a popup asking if user wants to delete current boundary or start recording a new one. [9.3.8-1 - Adding new boundary](#)
5. Headland width. Enabled only if field has a boundary.
Pressing this will open a numpad where user can input headland width.
6. Open marker management popup. (Feature available 2020)
7. Drop marker to current position. (Feature available 2020)
8. Open obstacles popup.
9. Open Add new obstacle wizard.
10. Start or pause the selected task.

[Draft]

9.3.1.3 Settings mode

NT03VUI-1680 - Settings mode



1. Front implement.
2. Path-to-path distance.
Pressing this will open Implement settings.
3. Rear implement.
4. Settings for worked area.
5. Wayline catch up settings.
6. Alarm settings.
7. GNSS Drift compensation. (Feature available 2020)

[ Draft]

9.3.2 Fields

NT03VUI-1724 - Selected field

Selected field is displayed on the map view. User can select another field and manage fields by pressing the field name. [9.3.2-2 - Fields popup](#)



[Draft]

NT03VUI-1722 - Fields popup



1. Select field
2. Field name
3. Navigate to field (Available 2019/2020)
4. Delete field
5. Add new field
6. Automatic field detection ON/OFF (EDT 2019.4)

[Draft]

9.3.3 Markers

Markers available late 2019/2020

NT03VUI-1728 - Marker color

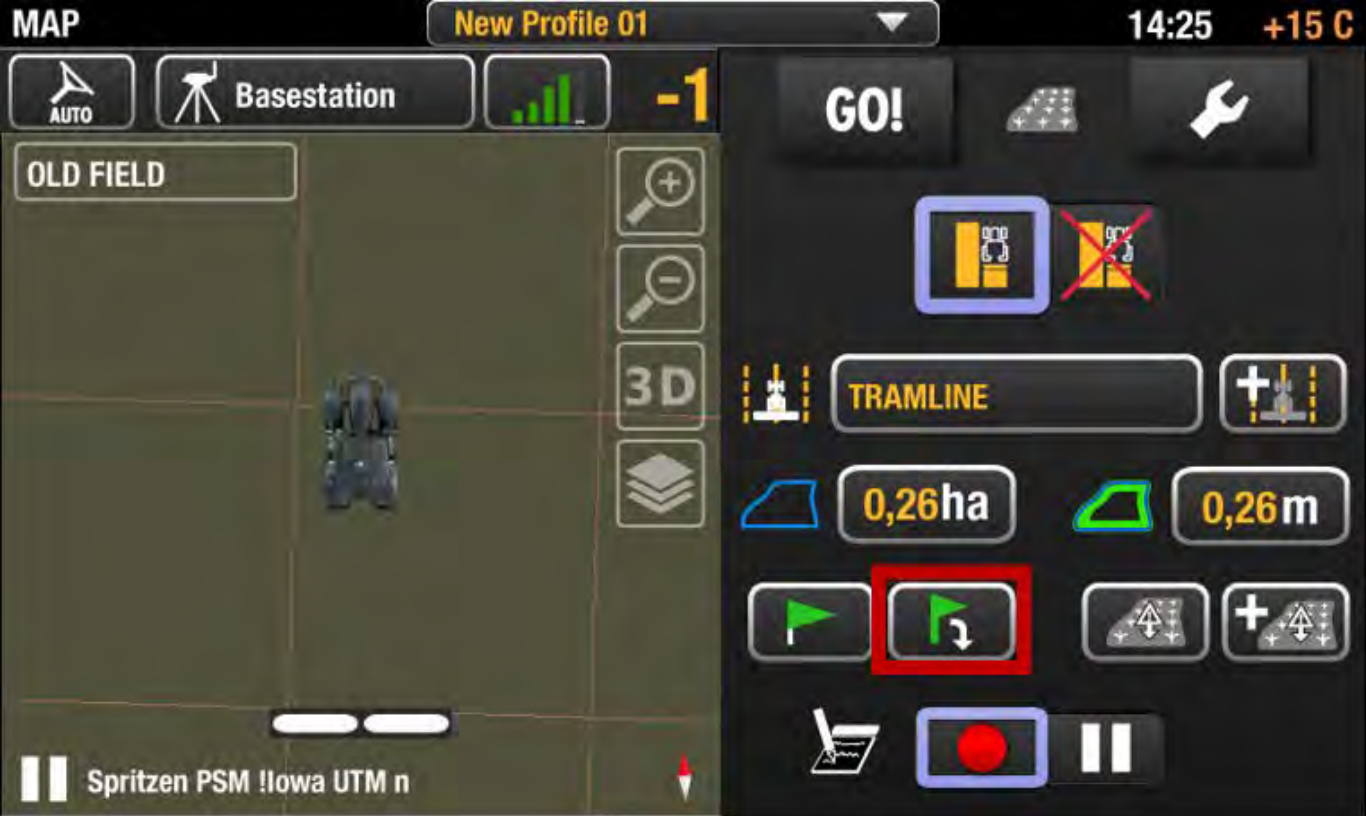
Selected marker color is displayed in map's side bar. Markers popup is opened by pressing this button. 9.3.3-3 - Markers popup



[Draft]

NT03VUI-1726 - Drop marker

A marker with selected color can be dropped to current position by pressing the highlighted button.



Draft]

NT03VUI-1725 - Markers popup



1. Marker color.
2. Marker name.
3. Navigate to marker.
4. Delete marker.
5. Select marker color.
6. Drop marker to current position.

[ Draft]

NT03VUI-1730 - Navigate to marker

Direction and distance to selected marker is displayed on map view when navigation to marker is started.



[Draft]

NT03VUI-1729 - Stop navigate to marker

When navigate to marker is enabled, user can stop navigation from markers popup.

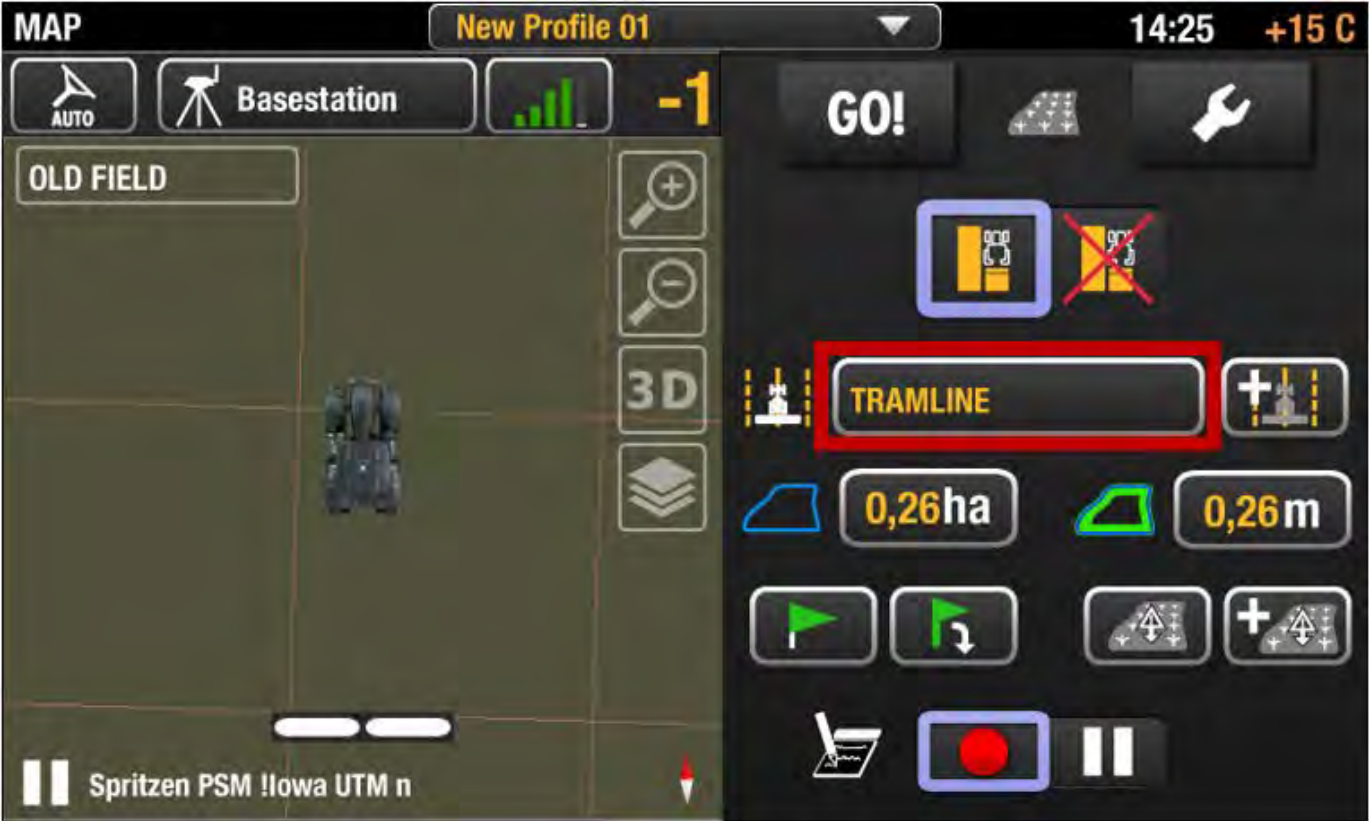


[Draft]

9.3.4 Waylines popup

NT03VUI-1716 - Selected wayline

Selected wayline is displayed in map's side bar.



Pressing this shall open wayline management popup, where user can e.g. change the selected wayline.

[Draft]

NT03VUI-1714 - Waylines popup



Waylines popup has a list of available waylines.

- 1. Select wayline.

2. Wayline name.
3. Type of wayline icon.
4. Information button for manual waylines coordinate info. (Available 2020)
5. Delete wayline.

[ Draft]

9.3.4.1 Waylines coordinate info

NT03VUI-1721 - Wayline coordinate info

If wayline coordinates can be displayed, information button is visible next to wayline type icon. Position information of wayline is displayed by pressing the highlighted button. (Available 2020)



Draft]

NT03VUI-1720 - A-B Wayline coordinate info

MAP New Profile 01 14:25 +15 E



A

Wayline 02



B



16° 10' 0.0000" N 16,10010100°	LATITUDE	16° 10' 0.0000" N 16,10010100°
22° 10' 0.00410" E 22,100015454°	LONGITUDE	22° 10' 0.00410" E 22,100015454°
246.060 ft	ALTITUDE	246.060 ft

[Draft]

NT03VUI-1718 - A + Angle Wayline coordinate info

MAP New Profile 01 14:25 +15 E



A

Wayline 02



LATITUDE 16° 10' 0.0000" N 16,10010100°	LONGITUDE 22° 10' 0.00410" E 22,100015454°
ALTITUDE 246.060 ft	ANGLE 16,1001°

[Draft]

NT03VUI-1719 - Pivot Wayline coordinate info



[Draft]

9.3.5 GO!-mode REC

NT03VUI-1739 - GO!-mode REC

In GO!-mode only worked area switch and controls for recording are displayed in the side bar.



[Draft]

9.3.6 Add new wayline

NT03VUI-1682 - Adding new wayline

User can start recording a new wayline from the map's side bar by pressing the highlighted button.



This will open wayline type selection popup [NT03VUI-1686 - Add new wayline popup](#). After wayline type is selected the map view is in recording state. In this state user can operate the recording controls and also other features found from side bar's field



User can e.g. start recording a boundary in parallel with wayline recording by pressing the highlighted button and selecting - overwrite current border.



After this the user has controls for both wayline rec and boundary rec. Also worked area recording and task running switches are available.



Draft]

9.3.7 Add new wayline popup

NT03VUI-1686 - Add new wayline popup

Add new wayline popup has three tabs for different types of waylines. Add new waylines popup can be opened by pressing the highlighted button:



[Draft]

NT03VUI-1689 - Basic waylines tab

When popup is opened the first tab with basic wayline types is opened.



In this tab user can select from these wayline types:

1. A-B
2. Contour
3. A + Heading
4. Pivot (Available 2020)

[ Draft]

NT03VUI-1692 - Advanced Contour waylines tab

Second tab contains advanced contour type waylines (available in 2020).



1. Single contour
2. Adaptive curve
3. Contour Segment

If Contour Segment is selected the user is asked in the next step how Contour Segment is created.



1. Contour Segment recording
2. Contour Segment from existing Boundary
3. Contour Segment from existing waylines

[Draft]

NT03VUI-1693 - Manual waylines tab

Third tab is for manual waylines (available in 2020). User can input manually the coordinates and other variables for different types of waylines.



1. Manual A-B
2. Manual A + Heading
3. Manual Pivot

[ Draft]

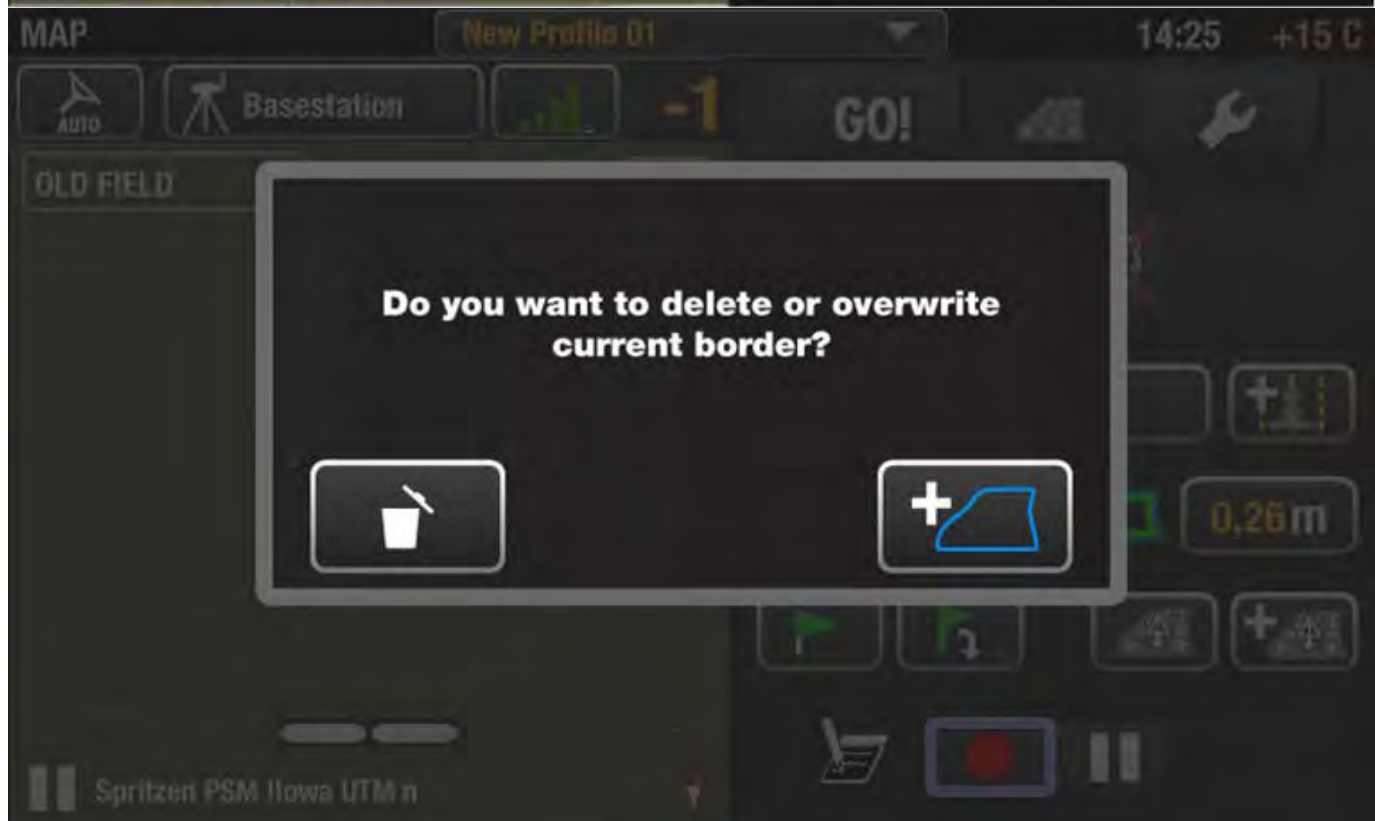
9.3.8 Add new boundary

NT03VUI-1684 - Adding new boundary

User can start recording a new boundary by pressing the highlighted button from the side bar.



If there already is a boundary recorded the user shall be asked to either delete or overwrite the existing border.



Once boundary rec is started, side bar is in REC state and recording controls are visible. User can still manage waylines, add new waylines, control worked area painting for steel implements and control task running state.



Draft]

9.3.9 Nudge Offset settings

NT03VUI-1691 - Cross Track display

Cross track display shows the amount of offset to current wayline and also an arrow indicating the direction of current wayline.

Nudge offset settings component is opened by pressing the Cross Track display on map's top bar.



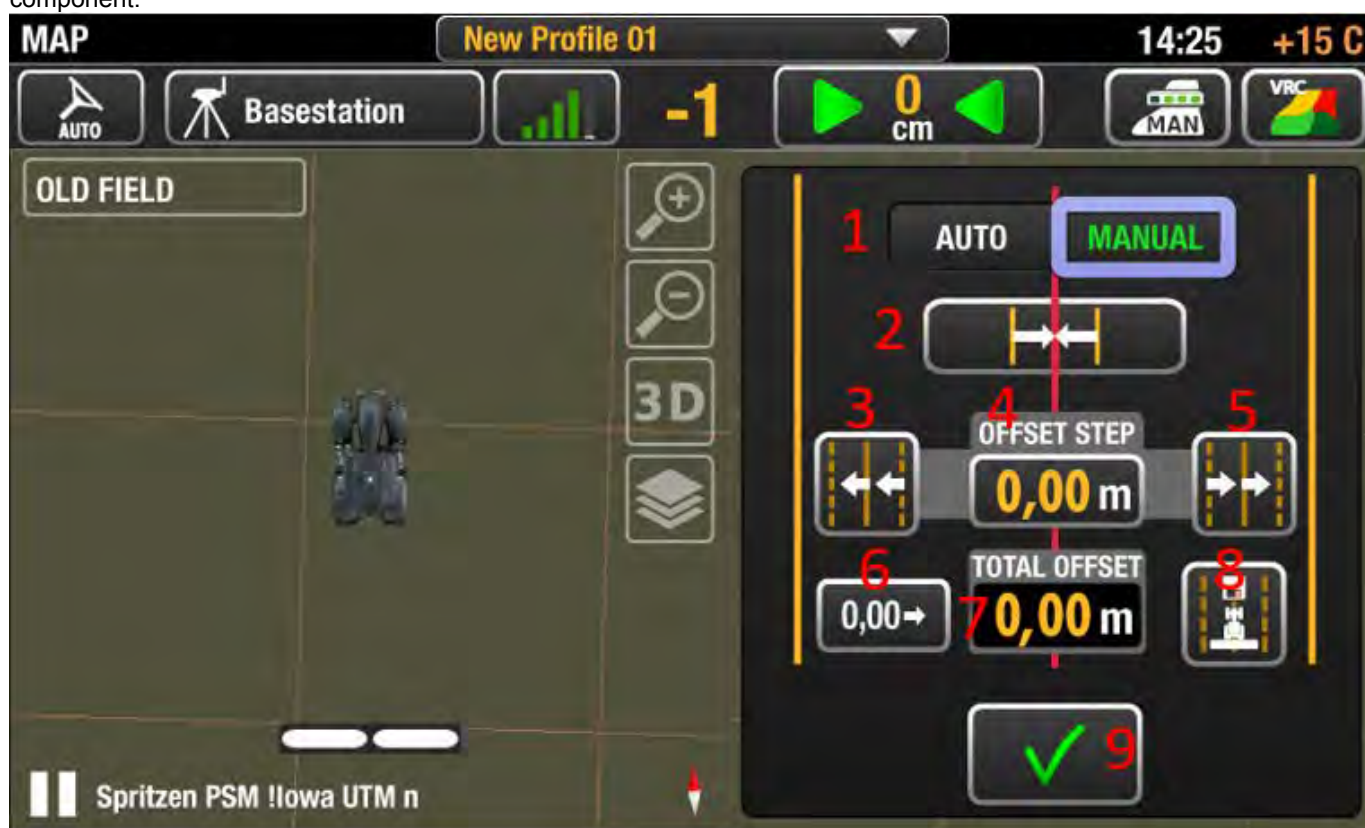
Cross track error	Symbol
Small	

Small	
Medium left	
Large left	
Medium right	
Large right	

[Draft]

NT03VUI-1688 - Manual Nudge Offset settings

Nudge Offset settings component is displayed on the right side of the map view. Map view is scaled next to this settings component.



1. Nudge offset AUTO/MANUAL mode.
AUTO mode available late 2019/2020.
2. Wayline nudge to current position.
3. Set manual nudge offset to left.
4. Step size of manual nudge offset.
5. Set manual nudge offset to right.
6. Reset nudge offset.
7. Total offset.
8. Save current nudge offset as a new wayline. (Available late 2019/2020)
9. Close offset settings component.

[Draft]

NT03VUI-1700 - Automatic wayline offset



In automatic mode, the offset is automatically set to current position on Auto-Guide engage. This setting is only effective until tractor restart.

[Draft]

9.3.10 Map layers

NT03VUI-1702 - Map's layer selection

The user shall be able to select the displayed map layer by pressing the highlighted button on the map view.



This shall open layers selection component next to map view.



Here all

available layers for the selected field are displayed. By default the name of the layer describes the layer type. If FMIS provides a name for prescription map, naming shall be "PRESCRIPTION MAP: THE NAME FROM FMIS".

If prescription map layer is selected, the color legend is displayed on top of the map view. [✎ Draft]

9.3.11 Variable Rate Control status

NT03VUI-1704 - Variable Rate Control state

User shall be able to see the overview of the selected prescription map by pressing the VRC indicator on top bar. VRC indicator is visible when a task with a prescription map is running.



[✎ Draft]

NT03VUI-1712 - Prescription map overview popup

The selected prescription map and it's color legend is shown in a popup. If there are multiple prescription maps attached to a task, user shall be able to select which prescription map's overview is shown.



Draft]

9.3.12 Correction signal popup

NT03VUI-1706 - Selected correction signal

Correction signal popup is opened by pressing the name of the selected correction signal on map view.



Draft]

9.3.13 Correction signal accuracy

NT03VUI-1708 - Correction signal accuracy info

Correction signal accuracy popup can be opened by pressing the accuracy bars on map view.



[Draft]

NT03VUI-1709 - Correction signal accuracy popup

Correction signal accuracy and position related information is displayed in this popup.



- Auto-Guide status indicator
- Selected correction signal

- Correction signal accuracy in bars
- Current wayline number
- Cross Track display
- Accuracy
- Satellites used
- Latitude
- Longitude
- Altitude
- IMU yaw
- IMU roll
- IMU pitch

[ Draft]

9.3.14 Auto-Guide status

NT03VUI-1711 - Auto-Guide status info

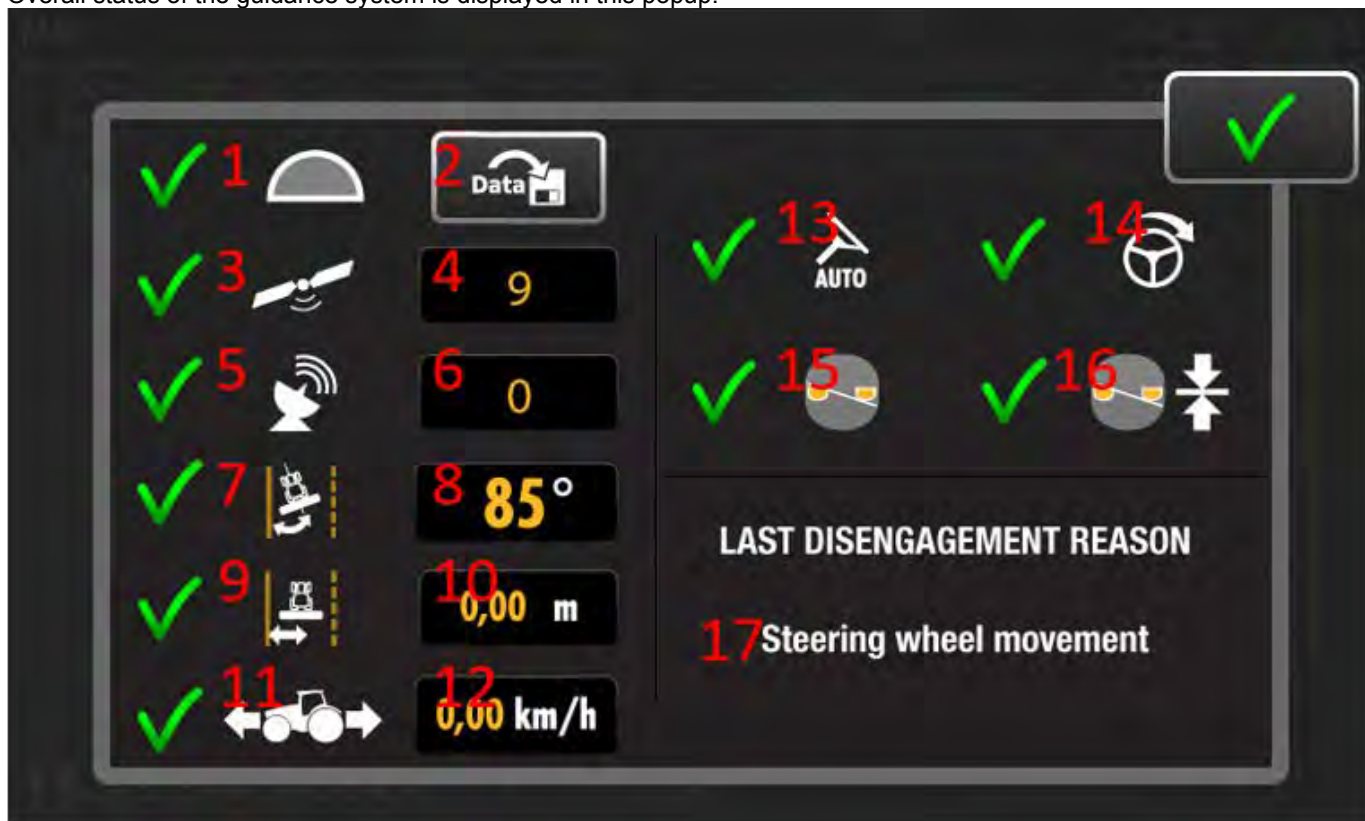


Steering controller status	SCT status icon
Steering controller OFF	
Steering controller pre-activated	
Steering controller activated	
Activation not possible / Error state	

Auto-Guide status popup is opened by pressing this button. [✎ Draft]

NT03VUI-1713 - Auto-Guide status popup

Overall status of the guidance system is displayed in this popup.



1. GNSS Receiver status
2. VD03 data log button (TBD)
3. Enough satellites
4. Number of satellites
5. Valid correction signal available
6. Signal lag
7. Heading status
8. Max acquisition angle
9. Cross track status
10. Cross track value
11. Speed status
12. Minimum engagement speed
13. Steering Controller status
14. Steering wheel movement status
15. Kalman filter initialized status
16. IMU calibrated status
17. Last disengagement reason

[✎ Draft]

NT03VUI-1731 - Auto-Guide info screen

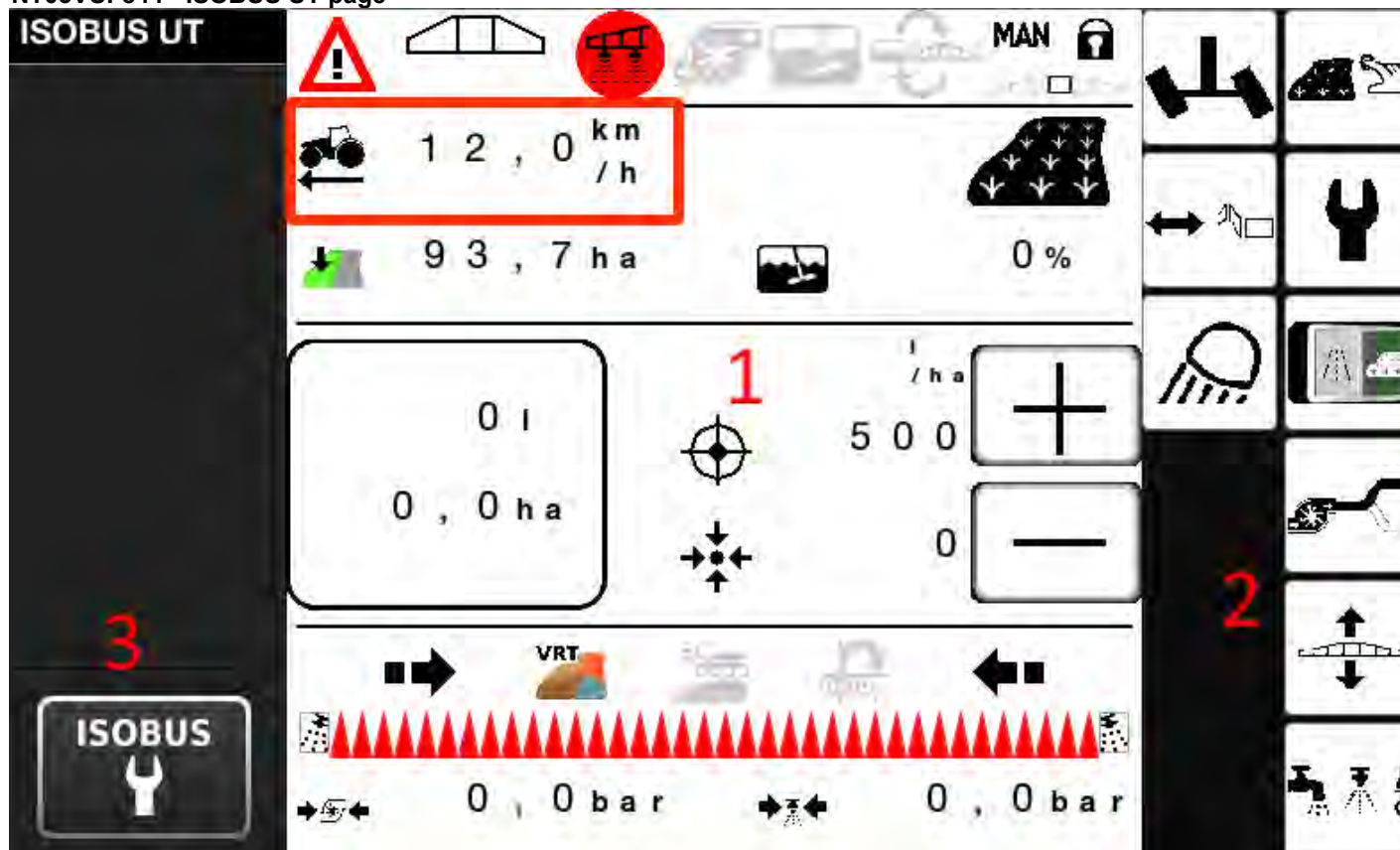
Auto-Guide info quadrant with same information from [9.3.13-2 - Correction signal accuracy popup](#) will be available in EDT release 2019.4



[Draft]

9.4 ISOBUS UT

NT03VUI-844 - ISOBUS UT page



NT-03 terminal can also display ISOBUS Universal Terminal for ISOBUS implements.

1. ISOBUS UT

2. ISOBUS Soft Keys
3. Go to ISOBUS settings

[Draft]

9.4.1 ISOBUS UT Settings

NT03VUI-845 - ISOBUS UT settings page



1. Turn ISOBUS UT ON/OFF
2. Turn task controller ON/OFF
3. Change ISOBUS version. Now AUX-N or AUX-O
4. Set primary terminal for ISOBUS functions (SmartTouch or 3rd party)
5. ISOBUS 3rd party joystick allocation
6. ISOBUS control masks
7. ISOBUS UT priority setup (only if 3rd party activated)
8. UT priority

[Draft]

NT03VUI-846 - ISOBUS UT enabled setting



Enable/disable ISOBUS UT. [Draft]

NT03VUI-847 - ISOBUS version setting



Open component to set ISOBUS version.



Choose between AUX-N and AUX-O.

[Draft]

NT03VUI-848 - ISOBUS UT brightness mode setting



Choose ISOBUS UT brightness mode:-

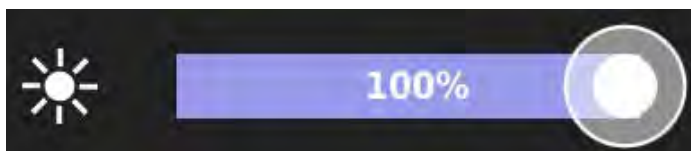
AUTO = Follow the terminal's brightness set from terminal settings page.

Night = Set brightness from the UT brightness slider

Day = Set UT brightness to maximum

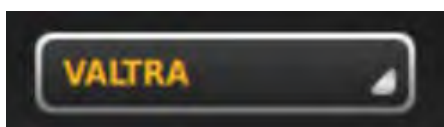
NOT in use [Draft]

NT03VUI-849 - ISOBUS UT brightness setting



[Draft]

NT03VUI-851 - ISOBUS AUX assignments responsibility setting



Operator can set ISOBUS AUX assignments responsibility to Valtra or 3rd party. [Draft]

NT03VUI-852 - ISOBUS 3rd party joystick allocation



Operator can allocate ISOBUS 3rd party joystick from the allocation popup opened by pressing this button.



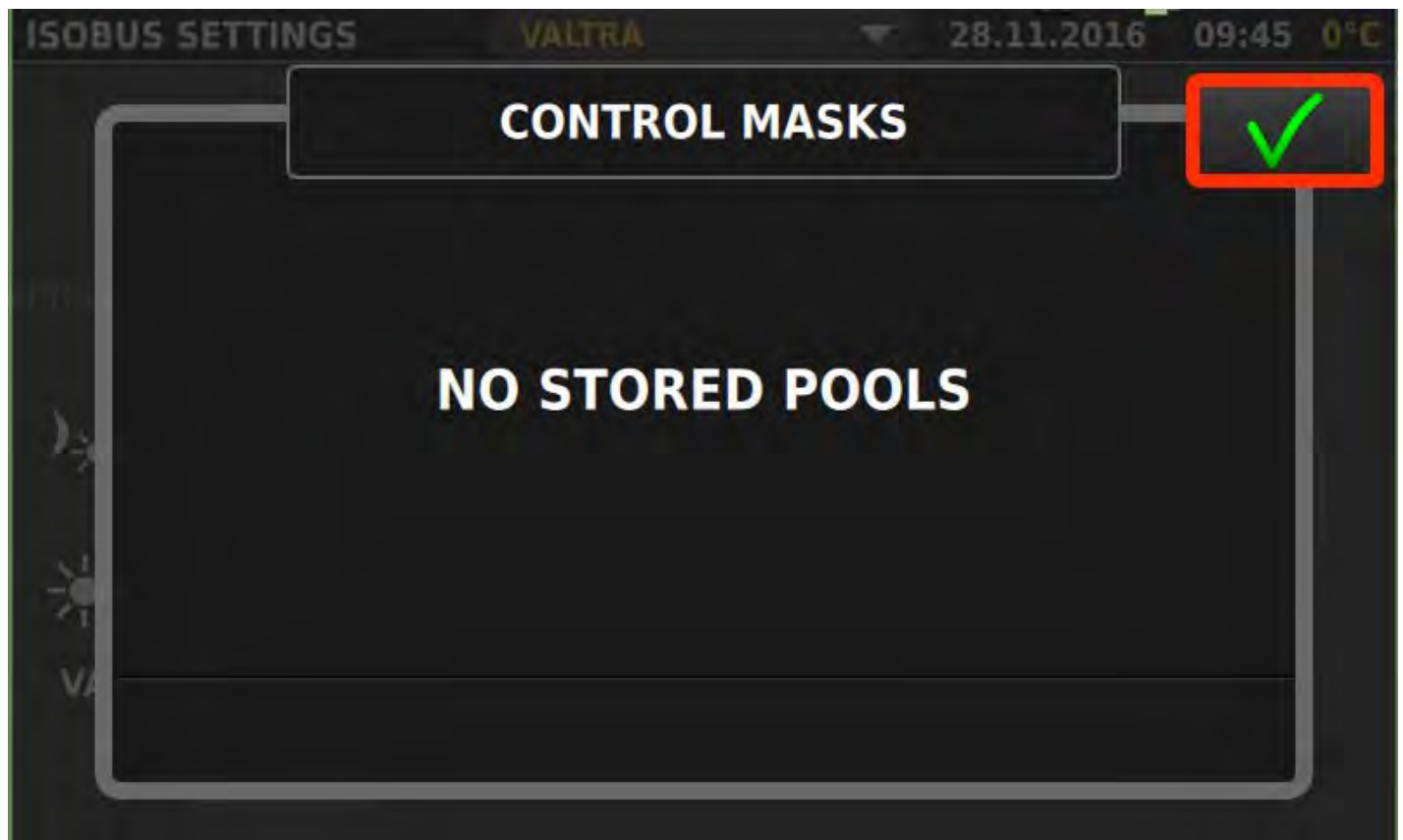
3rd party joystick allocation popup lists all of the available joysticks on the left and available functions on the bigger area on the right. Operator can allocate functions to available buttons on the joystick.

[ Draft]

NT03VUI-872 - ISOBUS control masks



Operator can view and manage stored control mask pools from the control masks popup. The popup can be opened by pressing this button on the ISOBUS settings page.

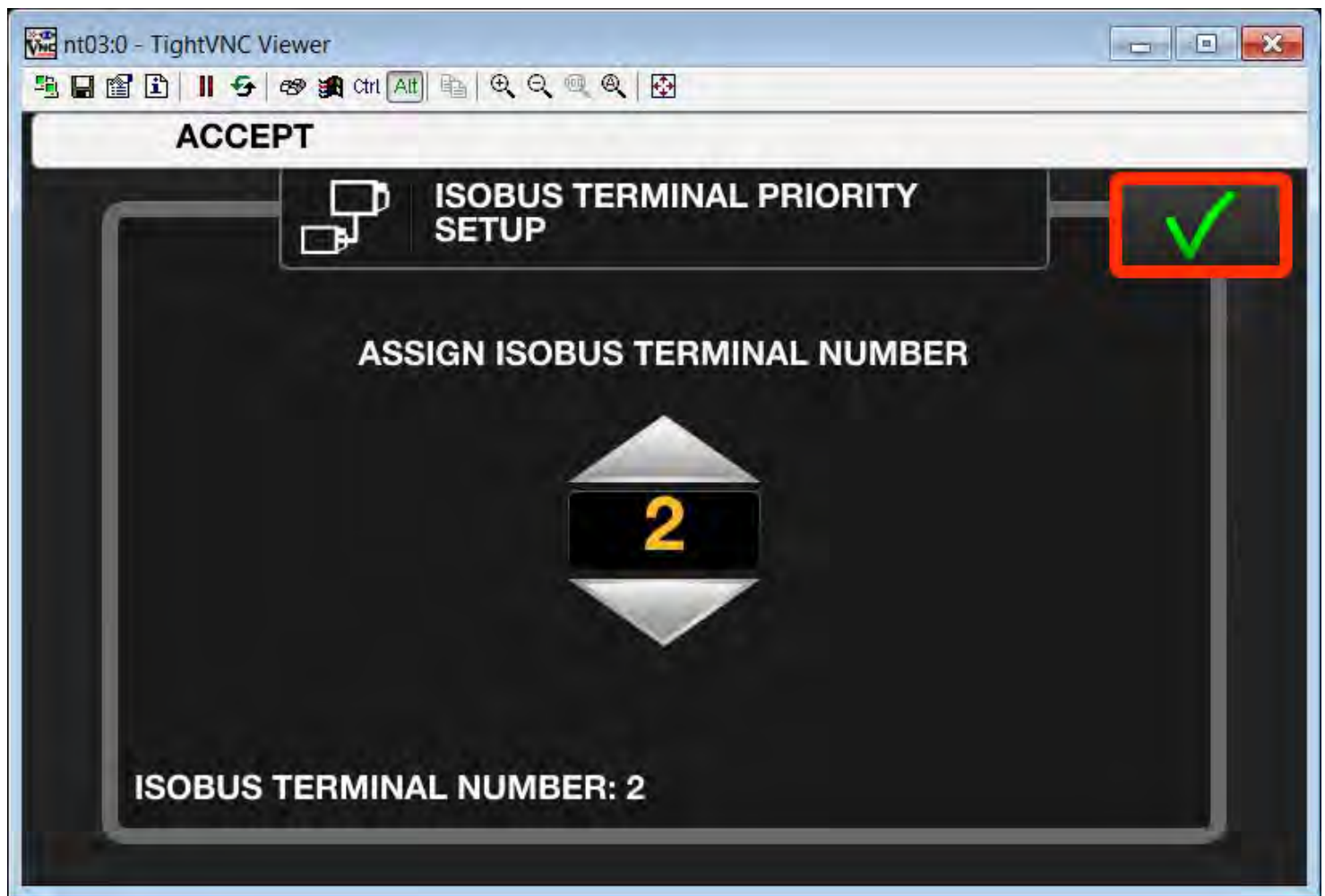


From this popup the operator can view stored pools, delete stored pools individually or delete all stored pools at once. [✎ Draft]

NT03VUI-873 - ISOBUS UT priority setting



Terminal's ISOBUS UT priority can be set from the popup opened by pressing this button on the ISOBUS settings page.

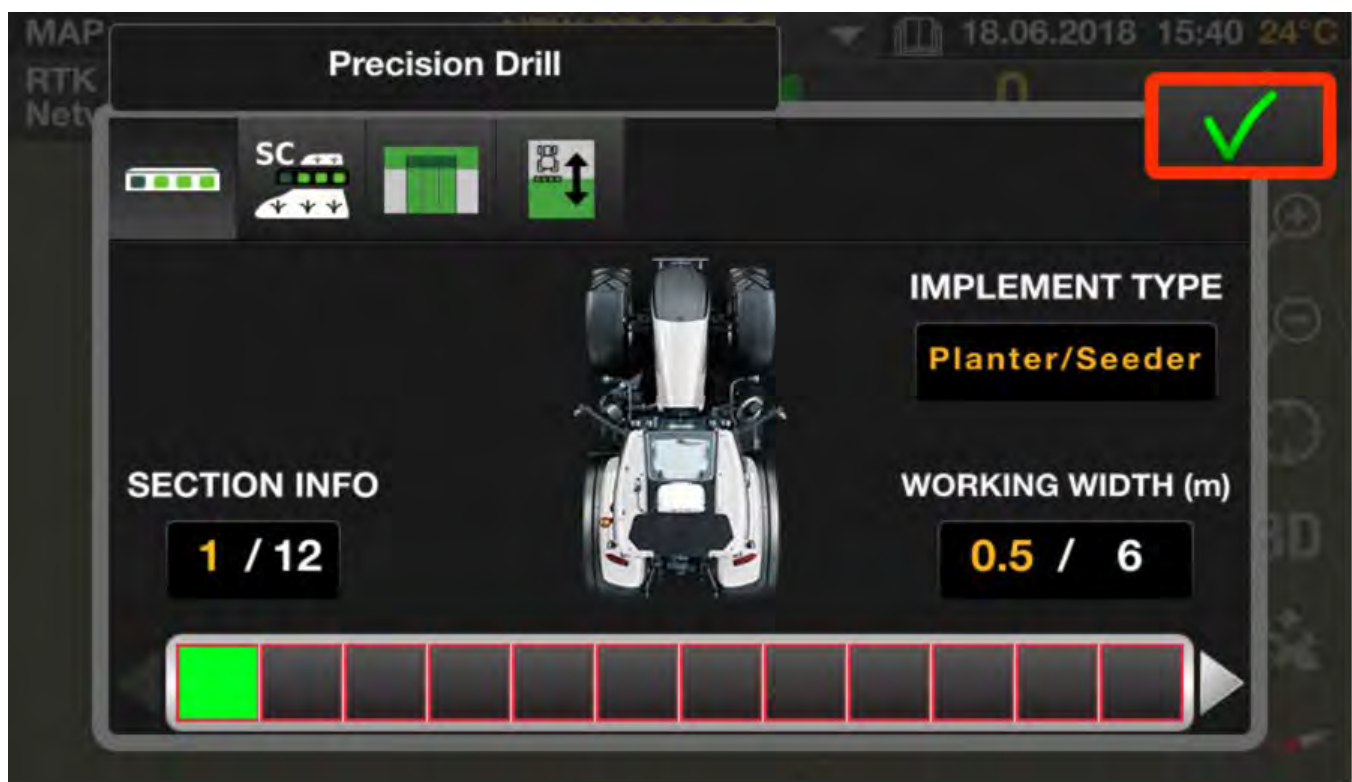


From ISOBUS UT priority-setting popup the operator can set the terminal's ID number. Operator can also display current ID numbers on other terminals by pressing the following button on this popup.

[ Draft]

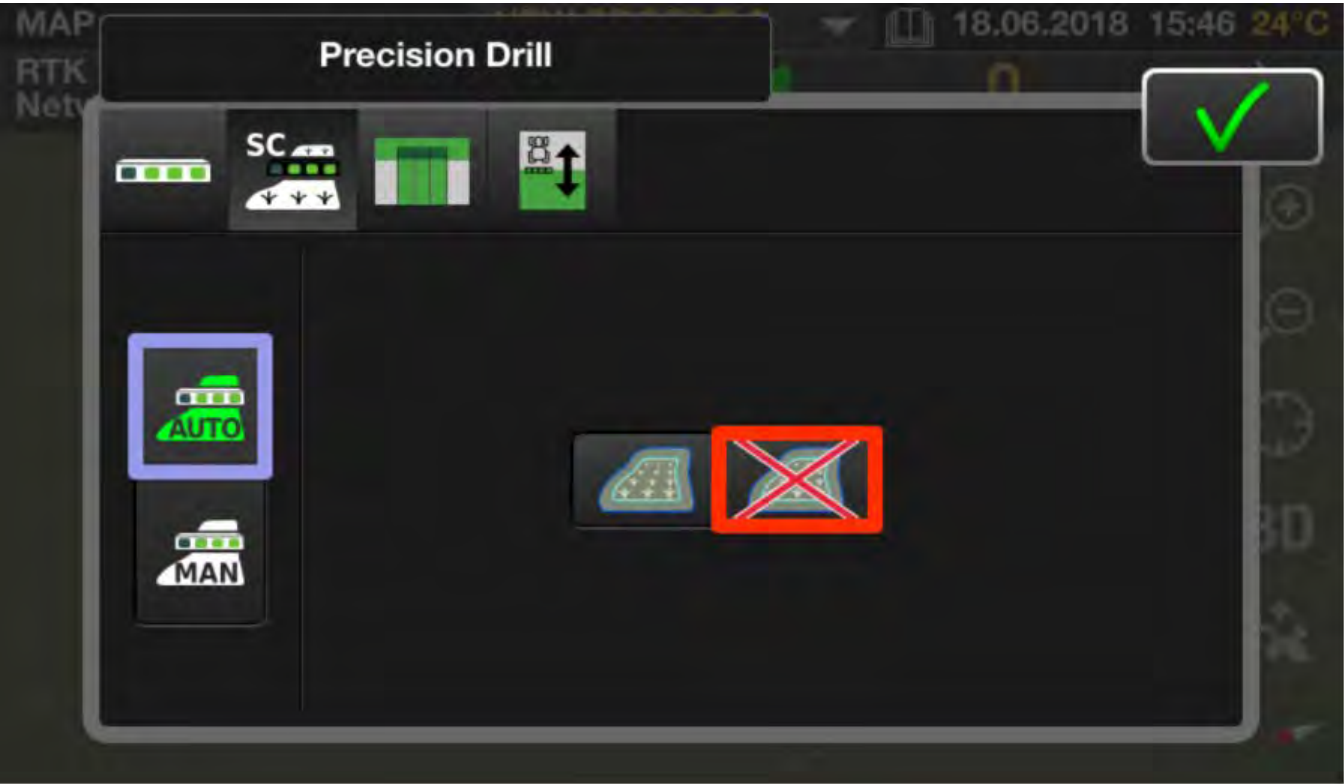
9.5 Section control

Section control is accessed from map's side menu.



Section control default page. Bottom bar shows which section is active.

Green tick returns operator to map view and saves all the changes.

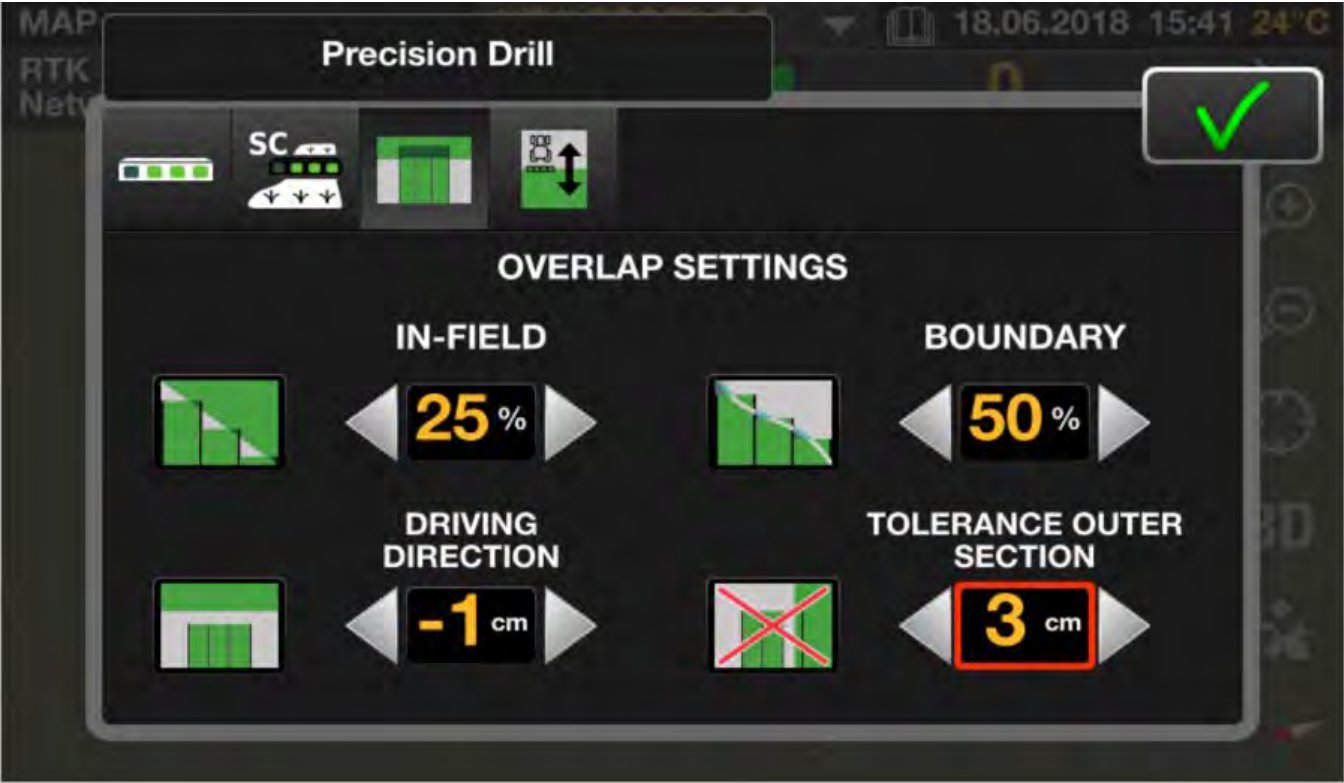


Toggle switch to choose whether section control is on auto or manual

AUTO: The section widths are switched automatically with Section Control

MANUAL: Section Control is OFF; section widths must be switched manually

On the center of the page is switch for headland



Overlap settings page.

IN-FIELD

- 0%: Section switches off immediately as soon as a worked area or the field boundary is reached -> errors are possible!
- 100%: Section does not switch off until the entire section width has been worked --> possible overlaps

BOUNDARY

- 0%: Section switches off immediately as soon as a worked area or the field boundary is reached -> errors are possible!
- 100%: Section does not switch off until the entire section width has been worked --> possible overlaps

Recommended setting: IN-FIELD: 100%, BOUNDARY: 0%

DRIVING DIRECTION

Adapt the switch-on time and the switch-off time at the headland:

- Value > 0: Implement switches on x centimeters earlier / switches off x centimeters later
- Value < 0: Implement switches on x centimeters later / switches off x centimeters earlier

TOLERANCE OUTER SECTION

NOTE: Only available if the IN-FIELD setting is 0%

Controls the tolerance range for which the outer sections are not switched off (only within the field; not along the boundary!)

- Prevents errors due to imprecise GNSS position (e.g EGNOS correction signal)



Delay settings page. Shows default and adjusted switch on/off delay.

Pressing adjusted button opens adjust switch-on/off time popup.

ADJUST SWITCH-ON TIME

Planter/Seeder switches on too EARLY

Planter/Seeder switches on too LATE

Please measure the length of the current GAP

0 cm

Please enter the working speed

10,00 km/h

Accessed by pressing adjusted button on delay settings page.

Switch for choosing whether device switches on too early or too soon.

Fields for entering length of the current gap and working speed.

Green tick calculates adjusted switch-on time and enters it on the delay settings page. Returns operator to delay settings page.

Red cross undoes all the changes and returns the operator to delay settings page.

ADJUST SWITCH-OFF TIME

Planter/Seeder switches off too EARLY

Planter/Seeder switches off too LATE

Please measure the length of the current GAP

0 cm

Please enter the working speed

10,00 km/h

Accessed by pressing adjusted button on delay settings page.

Switch for choosing whether device switches off too early or too soon.

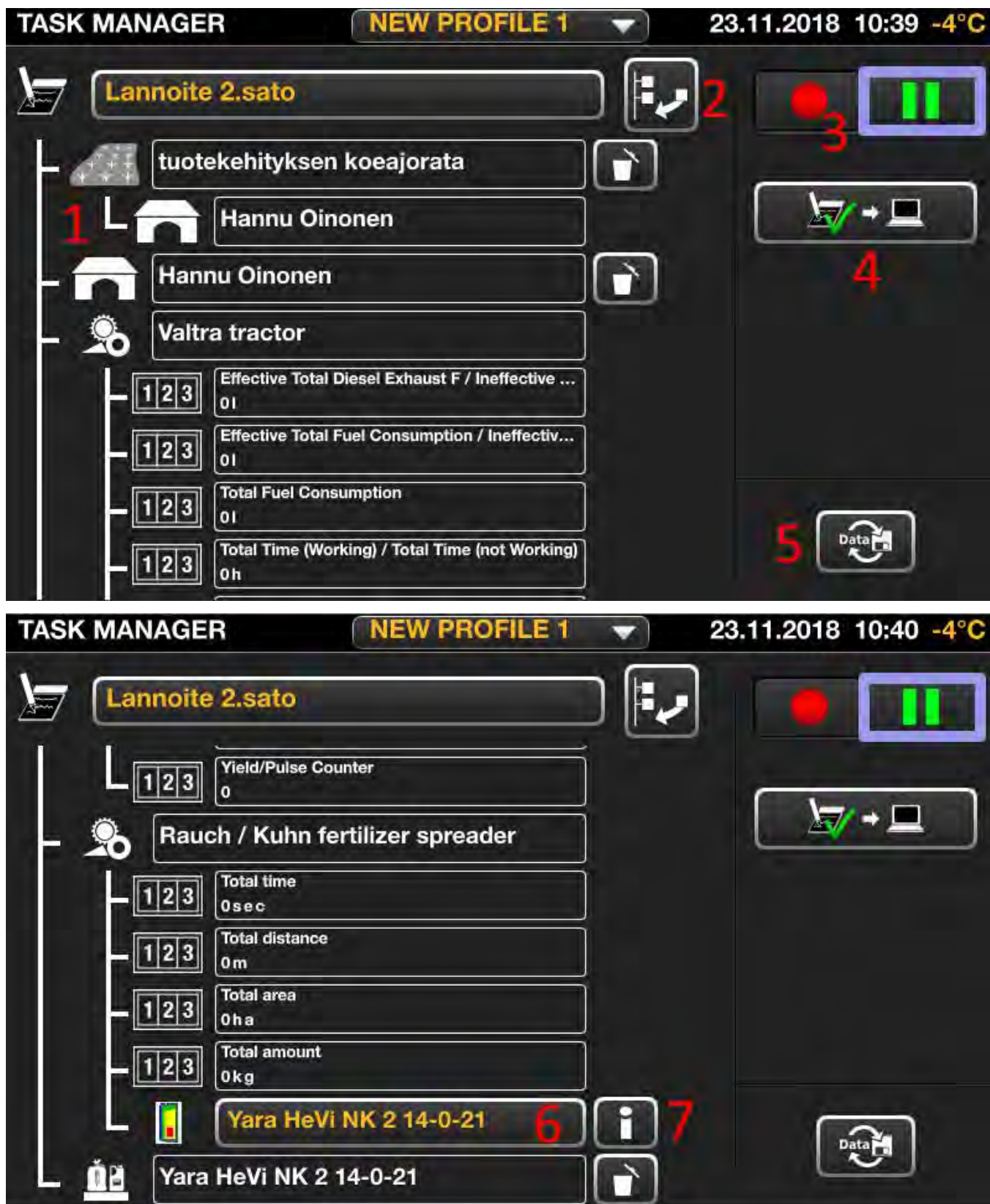
Fields for entering length of the current gap and working speed.

Green tick calculates adjusted switch-off time and enters it on the delay settings page. Returns operator to delay settings page.

Red cross undoes all the changes and returns the operator to delay settings page.

9.6 Task management

Task Management is accessed from Valtra home rear view.



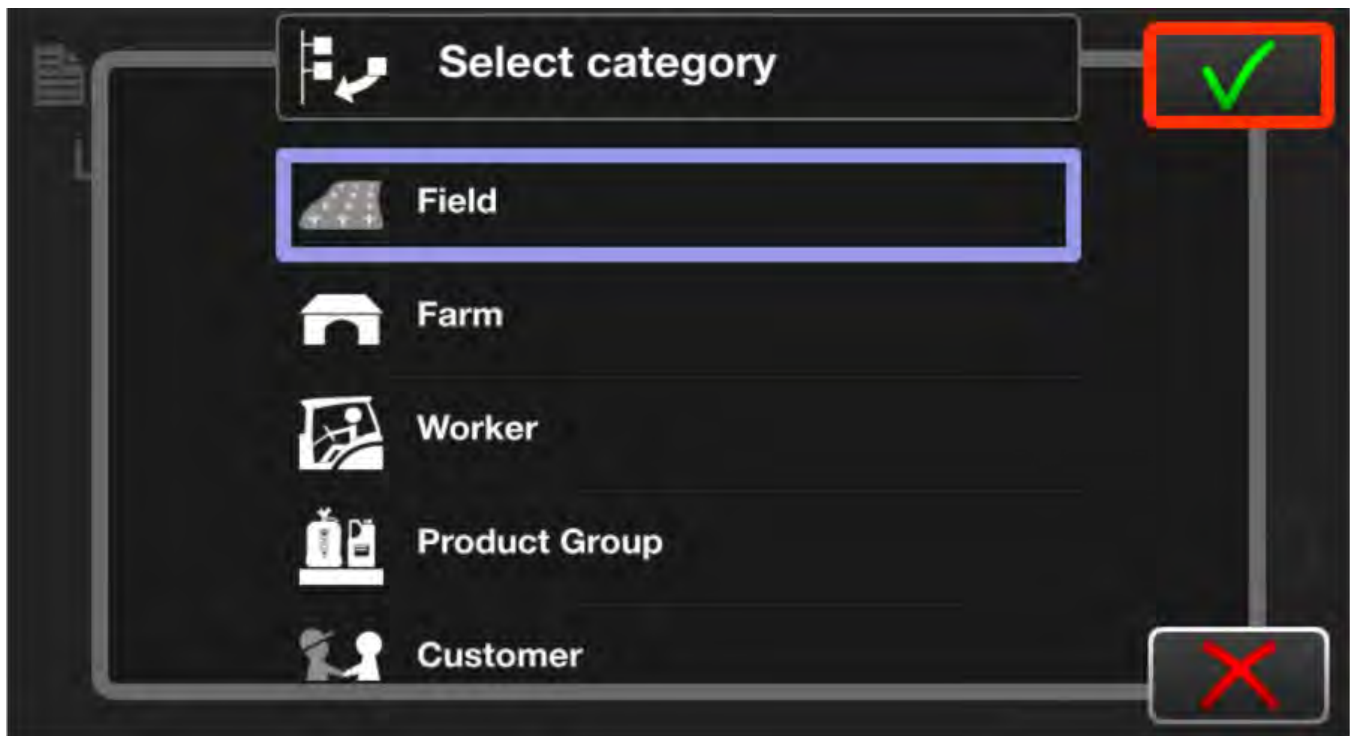
Task Management main page.

1. Current task and items on that task.
2. Add new task item
3. REC/Pause task
4. Send task to FMIS
5. Data exchange info/settings

6. Select prescription map (VRC)
7. Prescription map preview

Accessed by pressing current task name in Task Management main page. Operator can choose task or create new tasks.

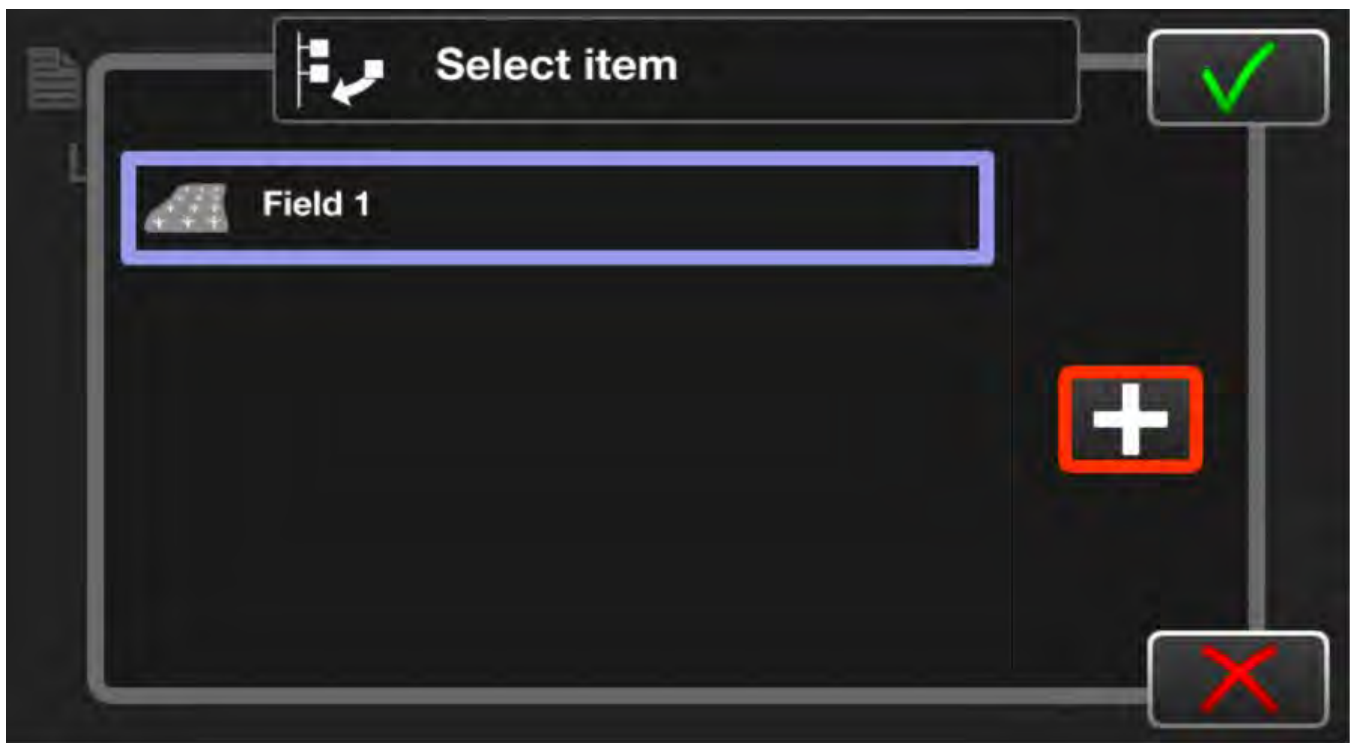
1. Task name
2. task status (new/rec/pause)
3. remove task (not sent to FIMS)
4. add new task



Opened by pressing add new item button next to current task. Operator can select the category of the new item.

Red cross returns operator to Task management main page. New item is not created.

Green tick opens select item popup.



Opened after operator has chosen category of the item. Operator can choose item or create new item inside the previously chosen category.

Green tick returns operator to Task management main page. New item is added to current task.

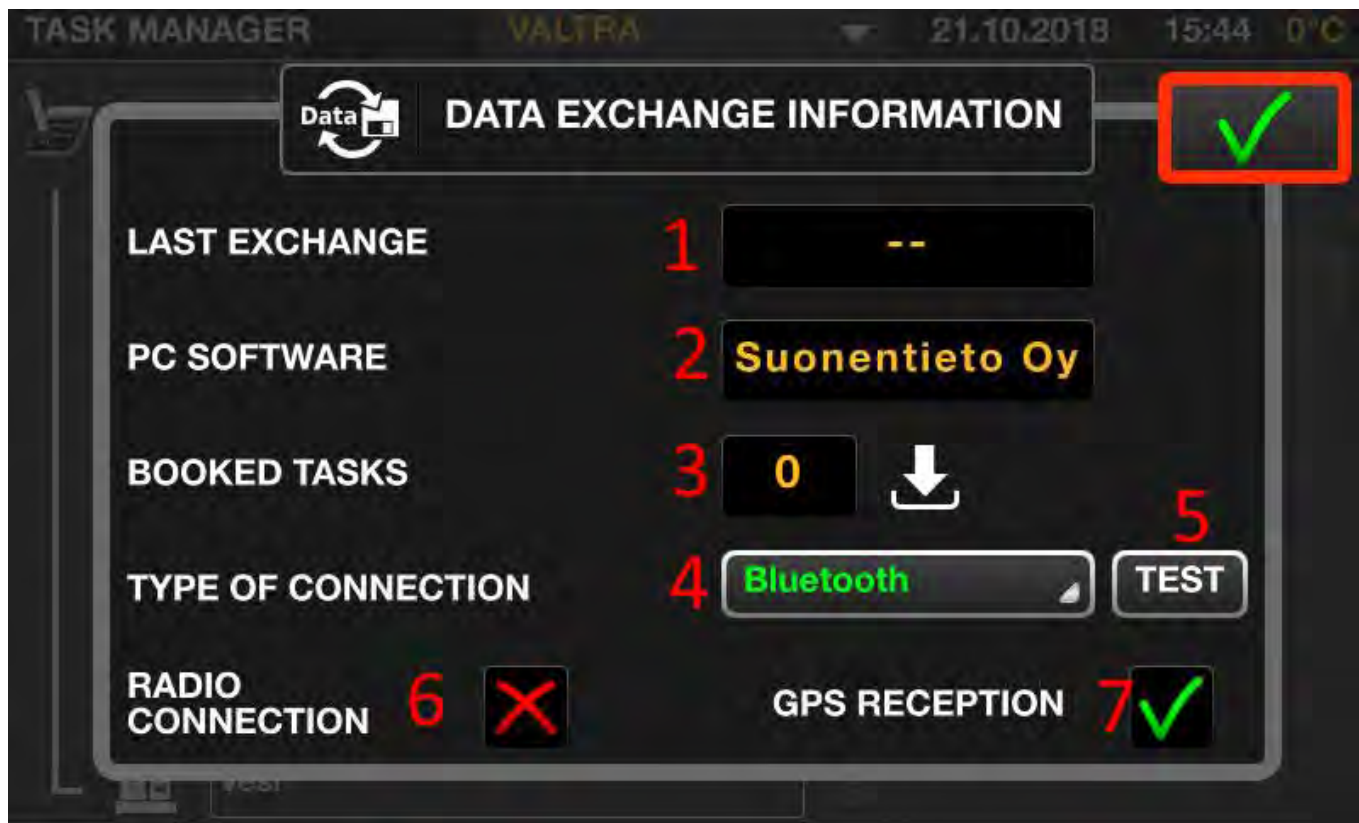
Red cross returns operator to Task management main page. New item is not added.



Accessed by pressing finish task button in task management main page. Shows summary of the task to operator

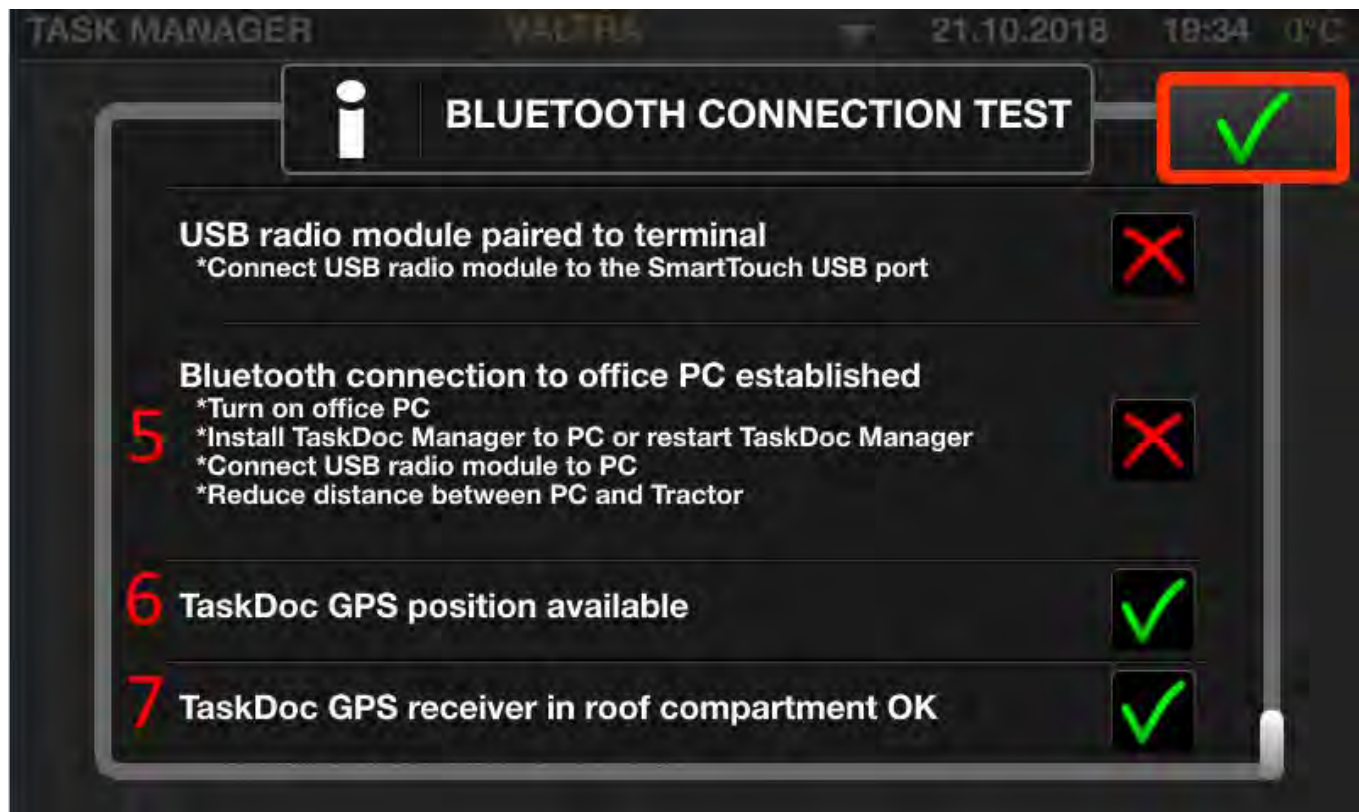
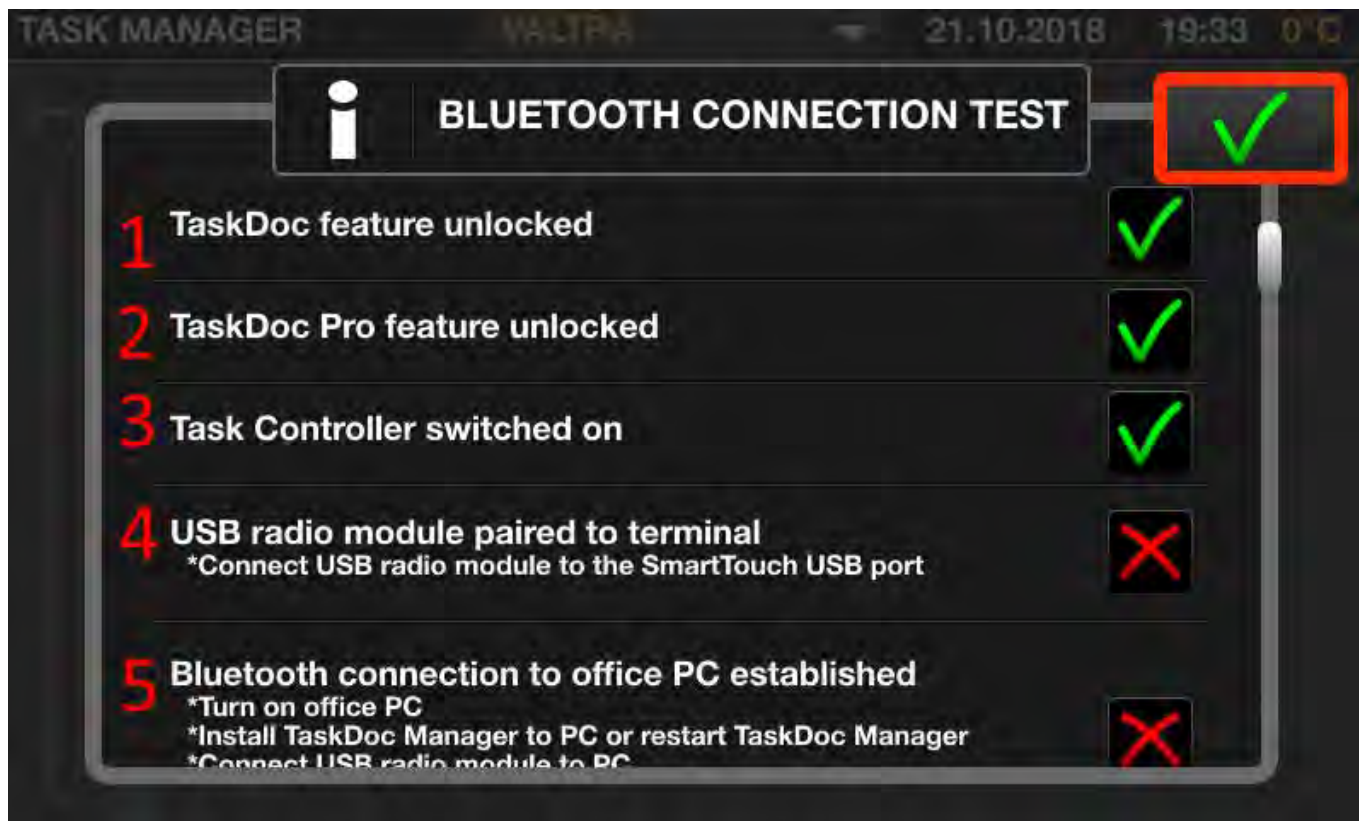
Green tick confirms the finish of the task. Task is sent and cannot be seen on the terminal anymore.

Red cross returns operator to Task management main page. Current task is not sent.

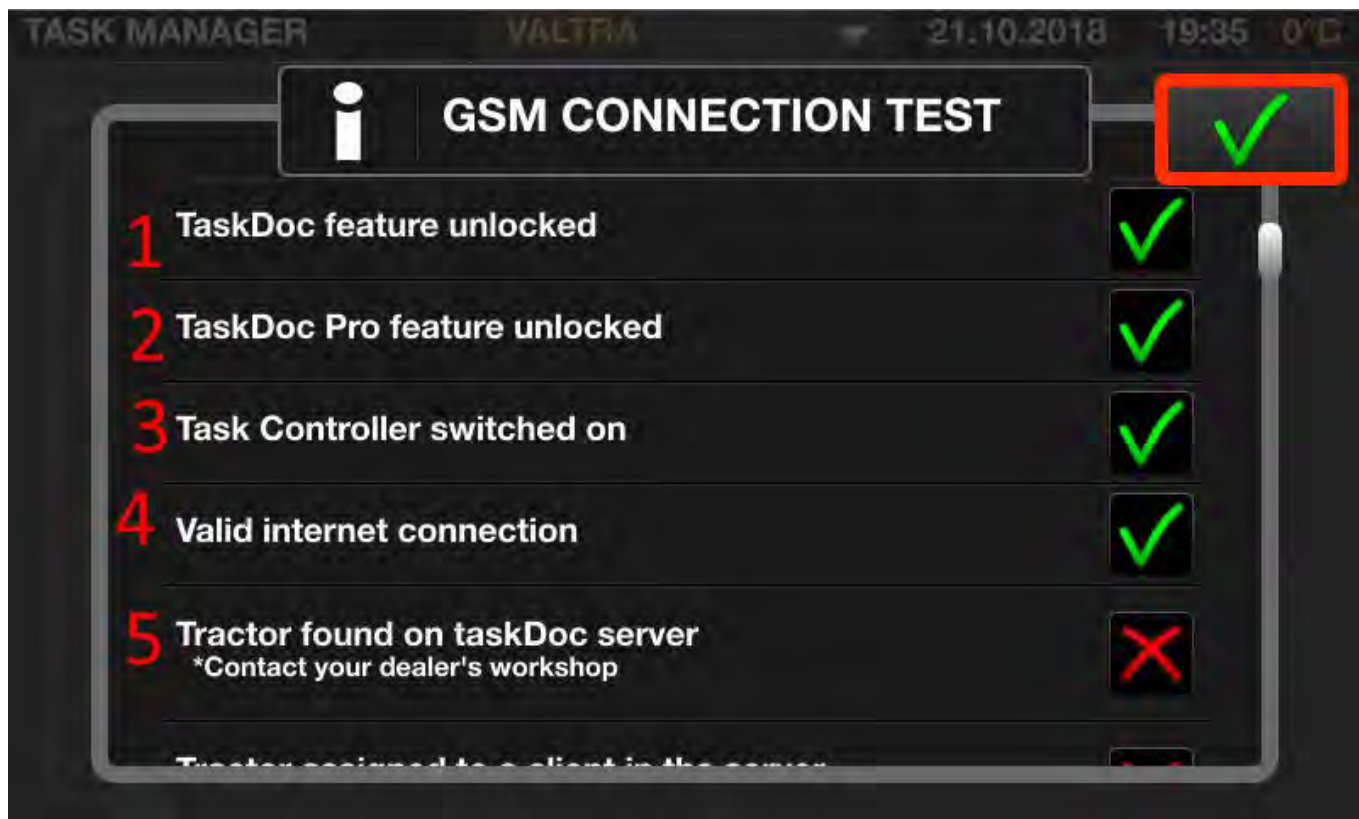


Accessed by pressing data information button on Task management main page.

1. timestamp from last data exchange with server
2. last used FMIS
3. Booked tasks shows the count of finished tasks, which are not yet sent from the vehicle.
4. Operator can choose the type of connection used to send tasks. Available connections are Bluetooth and gprs(TaskDoc Pro only).
5. Open test popup
6. Radio connection shows whether the tractor is connected to computer via Bluetooth or to the server via gprs.
7. gps status



Bluetooth test



GPRS test