

Inhalt

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TODO Chapter on Cloud usage?	Fehler! Textmarke nicht definiert.

ISOconnect

The ISOconnect box is an ISOBUS compliant telemetry device, including a complete task controller (TC), which connects to your Cloud and to your ISOBUS system.

Abbreviations:

GSM: Global System for Mobile Communications (= mobile communication module)

OTG: On The Go (=USB Host/Device, here: internal memory)

SC: Section Control

SK: Soft Key ("Buttons" that are in a separate area, not on the mask)

TC: Task Controller

VR: Validation Request

VT: Virtual Terminal

If the following screen is displayed, press the 'Alarm Acknowledge' button on your VT.



Status/info bar

At the Top of each Mask, we see the info bar, showing the current status:



- **H1** Notifications (currently 0)
- **H2** Errors (further information accessible via 'Error List' soft key)
- **H3** Internet available
- **H4** Signal Quality of mobile communication
- **H5** Cloud (synchronizing if flashing, else not displayed)

Home mask



Buttons:

- **B1** Task Controller
- **B2** DataLogger
- **B3** GPS only

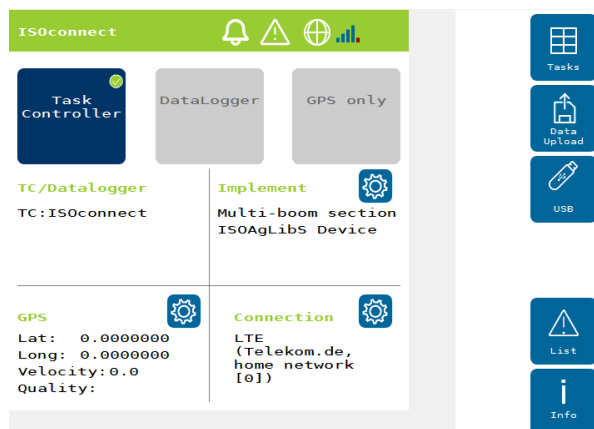
In GPS only state, the logged files will only contain GPS data

1 TC/Datalogger: shows TCs that are currently available on the ISOBUS (example below)

2 Implement: shows up to 3 implements at a time | Press on gear: open Implement mask

3 GPS: Current position, speed, quality of the GPS source that is selected | Press on gear: open GPS mask

4 Connection of mobile communication module | Press on gear: open Connection mask



Soft Keys:

- **SK1** go to mask 'Task list'
- **SK2** go to 'Data Upload' mask
- **SK3** Export data to USB
- **SK4** go to mask 'Error list'
- **SK5** go to mask 'Info page'

Data Upload

[To get here, press “Data Upload” on the Home mask] Select one of the checkboxes **1** or **2**.



Soft Keys:

- **SK1** go to 'Home' mask
- **SK2** go to mask 'Error list'



Log Data Upload:

Datalogger ¹ ☒

GPS only ² ☐

³ ☐ delete

B1
upload

B2
Export to
USB Stick

upload failed!

Data upload/export can only be executed for an inactive mode. Please switch to another mode if necessary.

Buttons:

- **B1** Upload task to cloud
- **B2** Export task to USB stick

Connection mask

[Get here by pressing the gear wheel at “Connection” on the Home mask]



The screenshot shows the ISOconnect Connection mask interface. At the top, there is a green header bar with the text "ISOconnect" and four icons: a bell, a warning triangle, a globe, and a bar chart. Below the header, there is a label "Cloud ID / TAN (input):" followed by a text input field. Below the input field, there is a label "Cloud Key:" followed by the text "39c2f961-9aeb-4f7c-8d3f-600a06e7327c" and a green checkmark. To the right of the main content area, there is a vertical sidebar with two blue buttons: "Home" (with a left arrow icon) and "List" (with a warning triangle icon).

During onboarding:

In case you use Agrirouter:

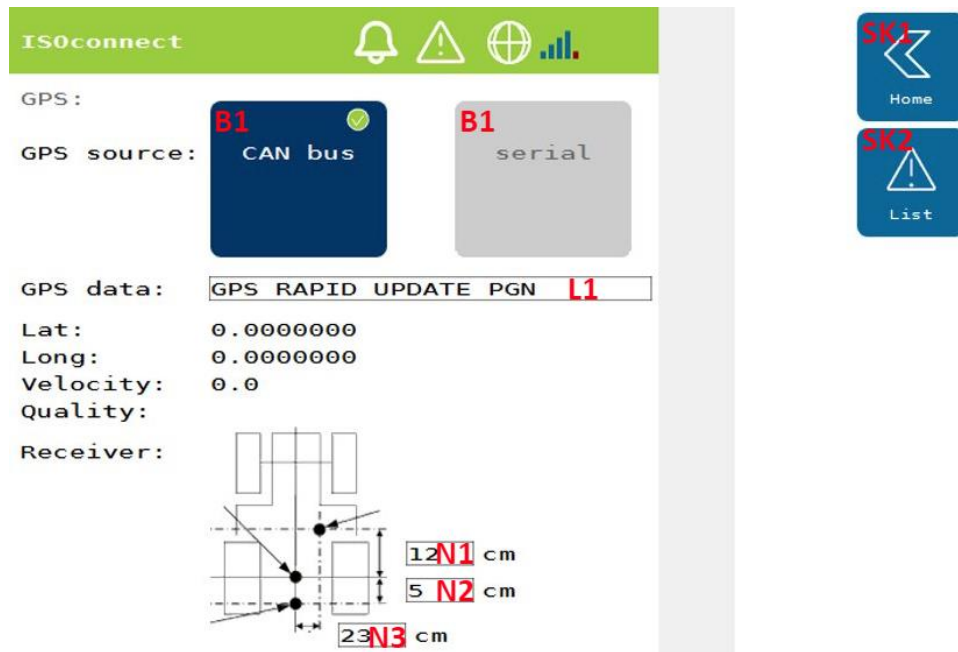
Generate a TAN in the portal, enter the TAN on this mask (after ~10 seconds, the Cloud Key and a green check mark should appear, if it was successful).

In case you use iXmap/Agravis:

Enter the ID you got from iXmap (there will not be any confirmation of success)

GPS mask

[Get here by pressing the gear wheel at “GPS” on the Home mask]



Use the input list (**L1**) to select the GPS mode.

Buttons:

- **B1** GPS signal will be taken from messages on the ISOBUS
- **B2** GPS signal will be taken from an antenna that has to be attached to the upper adapter at the right side of the ISOconnect box

Input numbers: Distances between

- **N1** Tractor reference point | GPS antenna (distance in direction of driving)
- **N2** Tractor reference point | Implement
- **N3** Tractor reference point | GPS antenna (offset to the side)

Soft keys:

- **SK1** go to 'Home' mask
- **SK2** go to mask 'Error list'

Implement mask

[Get here by pressing the gear wheel at "Implement" on the Home mask] Press SK 'Home' to go to 'Home mask'. Press the gear wheel next to an Implement, to go to the Implement SUBmask.

ISOconnect



Implements:

Multi-boom section control TC



Implement SUBmask:

ISOconnect



FUN 1

	Implement		ISOconnect	
SC turn on	150	B1	N1	B2
		☒	0	
SC turn off	150	B3	N2	B4
		☒	11	
Overlap (%)		N3	50	

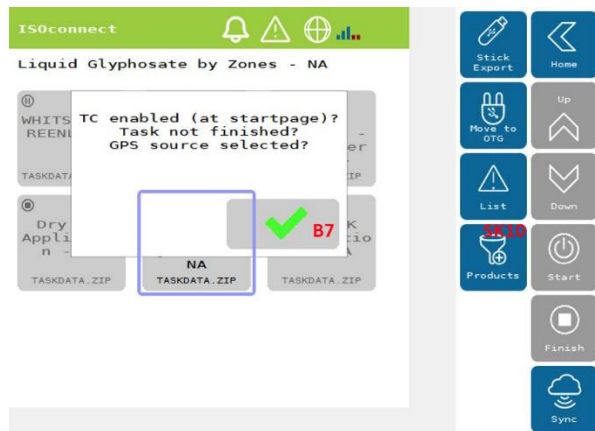


Task list

This mask shows the tasks that are currently loaded on the ISOconnect box. Tasks can be loaded from the cloud. A file (e.g. "TASKDATA.ZIP") can contain multiple tasks. Finished tasks will only be removed from the list, after all tasks from its file have been finished.



Select any or all tasks by pressing the buttons (B1- B6). Press a task again to deselect it. Click on a disabled (grey) soft key, if you think its action should be executable (might open a window with information, see below). Start a task (by pressing SK4) to add SK10 to the soft keys.



(info on Task mask after selecting B5, then pressing SK5; SK10 has been added after some task has been started.)

Buttons:

- B1 - B6 (can be fewer, or more) tasks (press to select, press again to de-select)

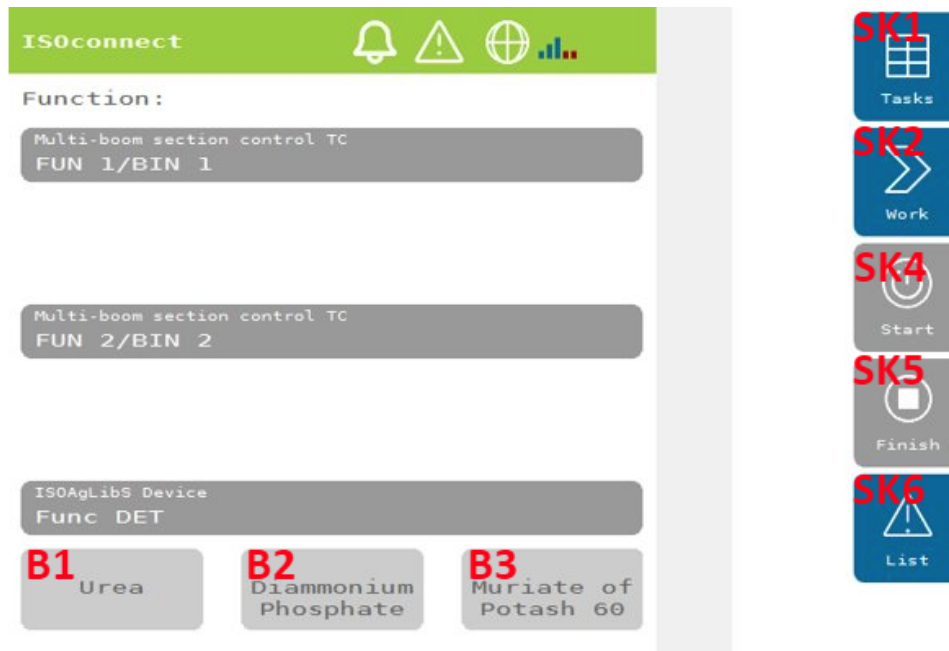
- **B7** acknowledge the information

Soft Keys:

- **SK1** go to mask 'Home mask'
- **SK2** scroll up/previous entries in the task list
- **SK3** scroll down/next tasks in the list
- **SK4** start selected task (soft key only enabled if exactly one of the selected tasks can be started)
- **SK5** sets selected active (not paused!) task to finished
- **SK6** send data of selected tasks to cloud
- **SK7** Exports data (using the file name, that was used for importing the task) to a USB stick that is inserted to the USB-C port on the right side of the box
- **SK8** move task to OTG partition and remove from task list permanently (after a short dialog)(Only possible if only one task is selected)
- **SK9** go to mask 'Error list'
- **SK10** only appears after a task has been started. Go to 'Products' mask

Products mask

[Get here by Task list -> start task, so this mask opens or press “Products” soft key (that SK only appears after a task has been started)]



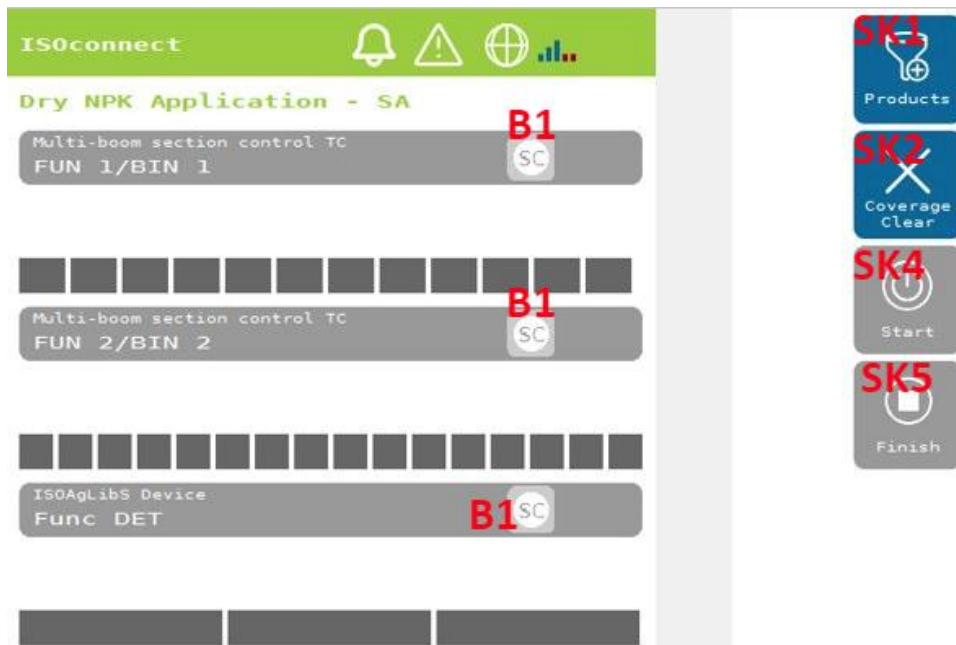
Soft keys:

- **SK1** go to mask 'Task list'
- **SK2** go to mask 'Working page'
- **SK4** pause started task (shows disabled “Start” SK, if there is no task running)
- **SK5** sets selected active (not paused!) task to finished
- **SK6** go to mask 'Error list'

Buttons: Each function of a selected task may have multiple buttons: **B1 - B3**: press to select, press again to de-select

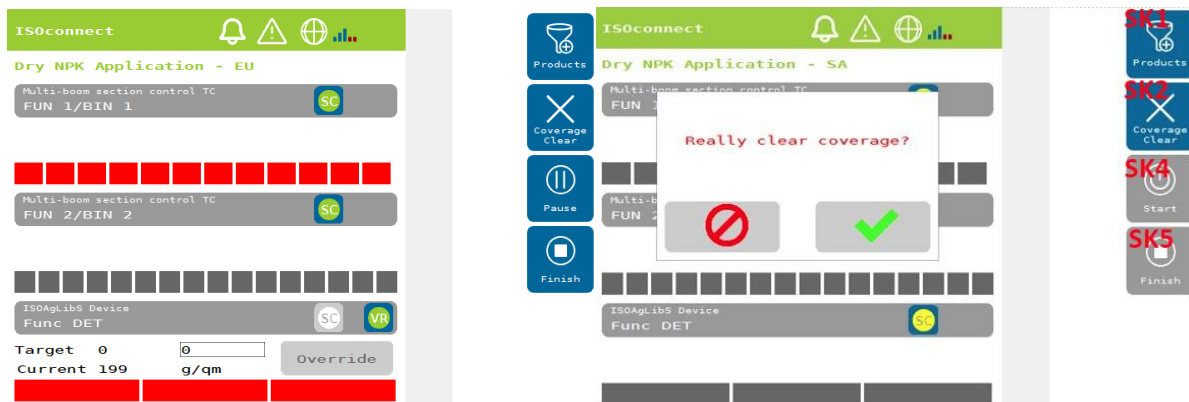
Working page

[Navigation to this page: Home -> Task list -> Products -> Work] On this mask, we see functions of the selected task.



Soft Keys:

- **SK1** go to 'Products' mask
- **SK2** clear coverage (so the sprayers will work even if they already sprayed the area)
- **SK4** pause started task (shows disabled "Start" SK, if there is no task running)
- **SK5** sets selected active (not paused!) task to finished



Next screenshots: When a function is not ready, the buttons **B1**, **B2** have yellow background, when they are ready, the background is green.

ISOAgLibS Device
Func DET

B1 SC B2 VR

Target 0 0

Current 199 g/qm

Override

ISOAgLibS Device
Func DET

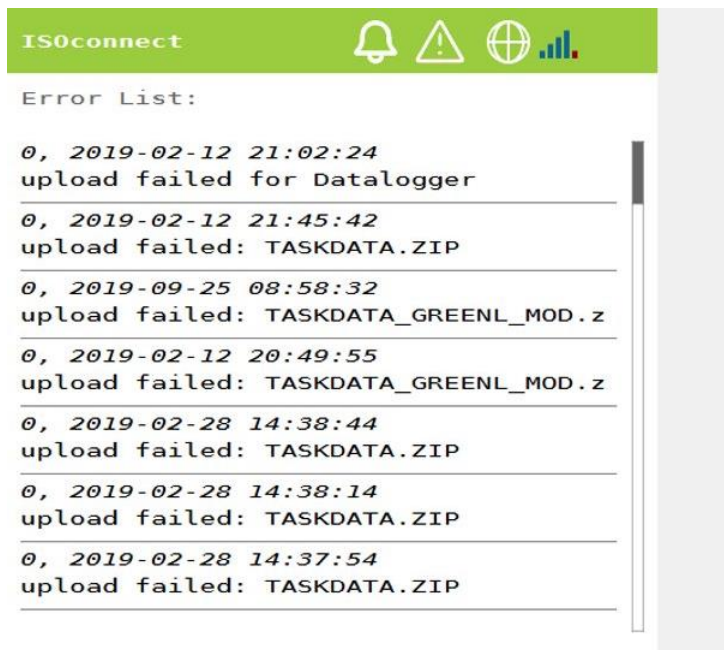
B1 SC B2 VR

Target 0 0

Current 199 g/qm

Override

Error list



The screenshot shows the IS0connect application interface. At the top is a green header bar with the text "IS0connect" and four icons: a bell, a warning triangle, a globe, and a bar chart. Below the header, the text "Error List:" is displayed. A list of error messages follows, each separated by a horizontal line. The errors are as follows:

Timestamp	Error Message
0, 2019-02-12 21:02:24	upload failed for Datalogger
0, 2019-02-12 21:45:42	upload failed: TASKDATA.ZIP
0, 2019-09-25 08:58:32	upload failed: TASKDATA_GREENL_MOD.z
0, 2019-02-12 20:49:55	upload failed: TASKDATA_GREENL_MOD.z
0, 2019-02-28 14:38:44	upload failed: TASKDATA.ZIP
0, 2019-02-28 14:38:14	upload failed: TASKDATA.ZIP
0, 2019-02-28 14:37:54	upload failed: TASKDATA.ZIP



SK1 go to mask Home

SK2 scroll up

SK3 scroll down

SK4 go to Task list

SK5 delete all saved error messages!

Info page

ISOconnect

SW-Version: 1.0.37

Task Start/Stop/Sync:

Is only one task selected, this task can be started. At the following page, the booms of the implement are shown together with the matching products (depending on task and implement capabilities). The next page shows the target and actual rate and gives a possibility to override the rate. A running task can be paused or finished. Finished tasks can not be restarted. After selecting one or more tasks and having Internet connection, the tasks can be uploaded to the cloud server. Transmission errors are reported in the error log ('list'). A finished task is deleted after successful transmission.

USB stick Export/Import:

A selected task can be copied to an USB stick via 'Stick Export'. Is there a TASKDATA.ZIP (capital letters!) file on the USB stick, this file can be imported at the 'USB' page (accessible from the main page). Hitting 'Start Import' imports the tasks and they are placed at the beginning of the task list.

ISOconnect as USB stick with Internet connection:

A selected task can be copied to an internal OTG medium (On-The-Go) via 'Move to OTG'. Attention: this task will be removed from the task list! After this, you can select the 'DEVICE' mode at the 'USB' page. When connected to the tractor terminal using an appropriate USB cable the terminal can now use the OTG partition

