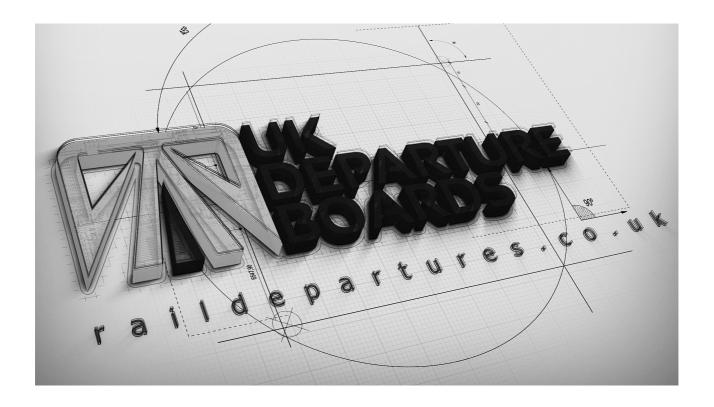
Desktop Departures getting started guide V1



WHAT'S INCLUDED

Desktop Departures board	x1
USB Cable	x1
USB Micro SD card adaptor	x1

OLED DISPLAY WARRANTY: Any OLED display with a severe defect will be replaced under warranty within 2 months from the delivery date.

OLED DISPLAY LIFESPAN: The OLED displays have a 4 year lifespan. Over the 4 years they can drop in brightness by 50% These displays can also suffer from 'pixel burn' This is where pixels which remain lit for a long time appear to 'burn in' on the display when unlit. All of the above can be significantly reduced by using some simple lifespan saving features built into the board's firmware. These features can be found in the 'Power/Display lifespan saving' section under the 'Desktop' tab on the web configuration app. These features DO NOT have to be enabled but will help prolong the life of the display.

Warning: THIS IS A 5V DEVICE. DO NOT EXCEED THIS VOLTAGE.

INITIAL SETUP

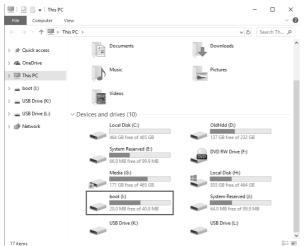
(Step1) Remove the Micro SD card from the side of the desktop departure board.



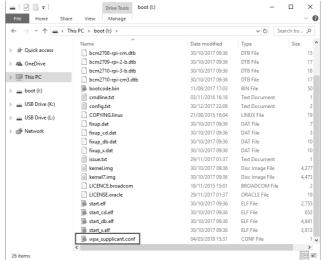
(Step2) Insert the Micro SD card into your pc/laptop via a built in SD card reader(preferred option) or using the supplied USB SD card adaptor.

Note: Ignore/Cancel any notifications asking you to format the disk.

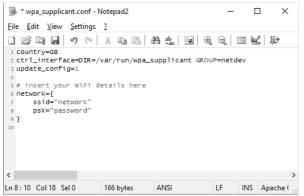
(Step3) Navigate to the boot drive (it will be labelled 'boot')



(Step4) Navigate the boot drive and open the file named 'wpa supplicant.conf' via a text editor (**read below notes!**)



(Step5) Replace 'network' and 'password' with your own WiFi details and save. (**DO NOT REMOVE QUOTE MARKS**)



You can support multiple networks by simply duplicating the network section inside this configuration file. If tethering to an iPhone you need to remove any apostrophes from your name.

(Step6) Remove the SD card from your pc/laptop and place back into the board's SD card slot.

(Step7) Plug the supplied usb cable into the **BACK** of the board and wait 15 seconds for the system to boot.

WARNING: Window's users!

Do not use Wordpad for editing this file. Use a proper text editor instead!

Recommended: Notepad2, VSCode, Atom,

SublimeText.

WARNING: Mac users!

If you use Textedit make sure to use "plain text format"

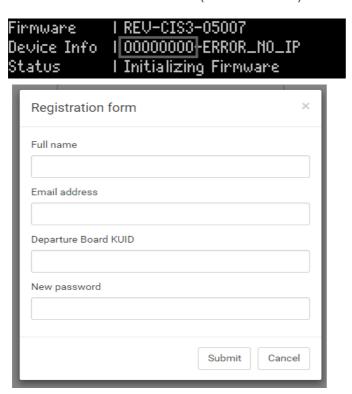
Also "disable smart quotes" in "Textedit > Preferences"

Note: The display will always be completely blank for the first 15seconds when the system boots from cold.

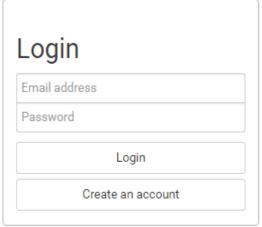
CONFIGURATION TOOL (WEB APPLICATION)

The web configuration can be found here.

(Step1) Register your account. You will need your boards serial. This can be found on the boards boot screen (when first turned on).

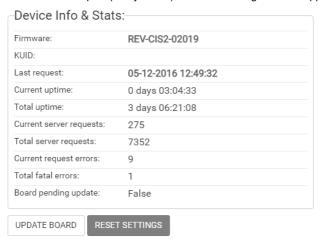


(Step2) Log In.



(Step3) Edit the configuration and click "UPDATE BOARD" (at the bottom) to submit your changes to the board.

- Changes are not instant. You will need to wait for your board to make its next request(every 10sec) before the changes will be applied.



API COMPARISON TABLE

This table describes what features different API's support. As more API's come available they will be added to the list. In the future the API's can hopefully be merged, so all features of each individual API can be available.

	National Rail Enquires (LDBWS)	Realtime Trains
Delayed services	Yes	Yes
Cancelled services	Yes	Yes
Station information	Yes	Yes
Delay reason	Yes	Yes
Cancelled reason	Yes	No
Service seating information	No	Yes
Service carriages length	Yes (very rare)	No
Service in reverse formation	Yes (very rare)	No
Service Via destination text	Yes	No
Service approaching station	No	Yes
Service at station	No	Yes

FAQ

Problem: Board does not boot (no lit leds on controller / blank display).

Solution: Check the power supply is connected correctly.

Problem: Board keeps resetting.

Solution: Check the power supply is connected correctly. If using an extension cable check

cable is of good quality and under 2 meters.

Problem: Board display does not display text but controller pcb leds are lit.

Solution: Make sure controller pcb ribbon cable seated well on display connector.

Problem: Board displays ERROR_NO_IP / EAI_AGAIN

Solution: - Check you have entered your correct WiFi credentials (ie SSID / PASSWORD).

- Check your internet connection is working correctly.

- Check your WiFi supports 2.4ghz

- Make sure 'wpa supplicant.conf' is not named 'wpa supplicant.conf.txt'

- If tethering to an iPhone remove any apostrophes from your name.

Problem: Board displays JSON_PARSE_ERROR

Solution: This is most likely a server issue and will resolve by it self.

Email contact@ukdepartureboards.co.uk if you require more information / additional help.

ACKNOWLEDGEMENTS

API Feeds:

http://www.realtimetrains.co.uk/ http://www.nationalrail.co.uk/46391.aspx https://api.tfl.gov.uk/

Special Thanks:

Kris Baillie Firmware / web config testing / Station name renaming. **Andy Carter** Firmware / web config testing / Station name renaming. Danny Cox Firmware / web config testing / Promo video / media. Firmware / web config testing / TFL data expert. Ross Muggeridge

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