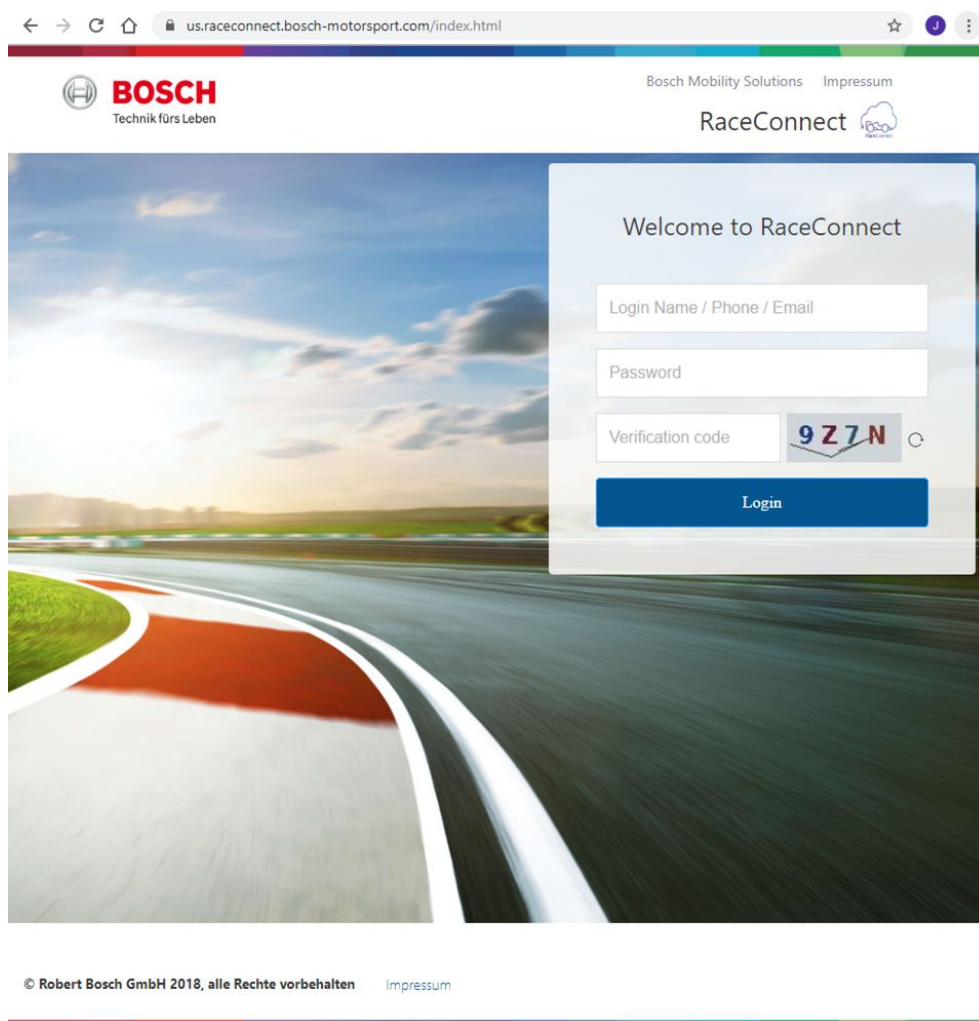




RaceConnect DirectLink

Quick Start Guide

Version 2.1 03/11/2022



Table of Contents

1	Introduction	3
2	Part List.....	4
3	Installation	5
4	Firewall and Proxy.....	6
5	Adding a Data Stream	7
6	Settings.....	10
7	Pit Network Setup.....	11



1 Introduction

RaceConnect DirectLink is a feature that exists within the RaceConnect cloud platform to transfer telemetry data without an LTE65 Modem as a receiver. Only a stable internet connection is required at the PC receiving the data. RaceConnect DirectLink uses the WDS-Server v3 program as the interface between RaceConnect and your PC.

The DirectLink data plan must be ordered from your Bosch dealer or sales representative prior to using receiverless telemetry. Each data stream is given a secure token that is used to identify the stream.

RaceConnect DirectLink works just like traditional telemetry with a receiver and WDS-Server.

- Only one laptop can receive and decode the data stream at a time.
- The decoded data stream can be networked to other PCs.
- The stream is secured by a seed and key file (INI).



2 Part List

EU

Part Number	Description
F02U.V02.929-01	Racer Subscription, 500 MB/20 h (1 year)
F02U.V02.930-01	Pro Subscription, 2 GB/60 h (1 year)
F02U.V02.931-01	Pro-High Subscription, 10 GB/100 h (1 year)

JP

Part Number	Description
F02U.V02.929-01	Racer Subscription, 500 MB/20 h (1 year)
F02U.V02.930-01	Pro Subscription, 2 GB/60 h (1 year)
F02U.V02.931-01	Pro-High Subscription, 10 GB/100 h (1 year)

US

Part Number	Description
F02U.V0U.355-01	Racer Subscription, 500 MB/20 h (1 year)
F02U.V0U.357-01	Pro Subscription, 2 GB/60 h (1 year)
F02U.V0U.358-01	Pro-High Subscription, 10 GB/100 h (1 year)



3 Installation

- Download and install the latest version of WDServer v3
- From the folder it was installed in, launch WDServer.exe (can also be found via the start menu)
 - A cmd prompt window will open when it launches, no interaction is needed
- A web browser will automatically open and navigate to the Direct Link portal. Log in using the following credentials:
 - Default User: admin
 - Default Pass: password

Note that this is only a local device login and does not impact device security settings. You are free to change the password. This is changed at *Global Settings / Login Name and Password*.
- To run WDServer v3, launch the WDServer app and open a web browser and navigate to <http://localhost:5000/>



4 Firewall and Proxy

Many companies use a proxy server to access the internet. In some cases, it may be necessary to contact your IT department in order to identify what other prerequisites may exist prior to taking in telemetry data over a public internet connection.

DirectLink is able to natively use your system proxy. Additionally, you can enter your proxy information manually if needed. All proxy settings are at *Global Settings / Proxy Settings*.

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Global Settings

Login name and password

Username:

Password:

[Apply](#)

Proxy settings

☒ Use system proxy for Raceconnect

Proxy URL:

If you need to use a proxy other than the System Proxy

Authentication: You will probably leave this area blank

Username:

Password:

[Apply](#)

Other settings

Keep files:

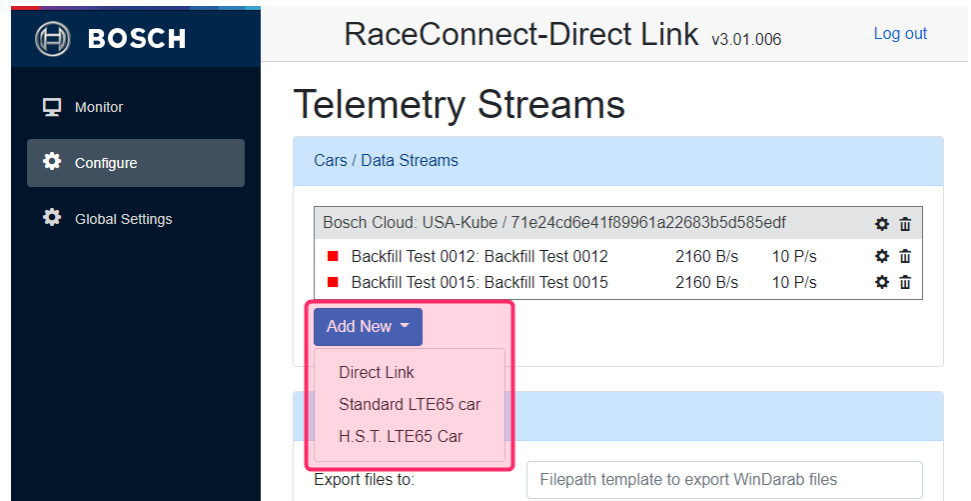
Enter the timespan to keep telemetry data files in



5 Adding a Data Stream

Set up the remote client in the *Configure* Menu.

1. Click on *Add New*. There are options for *DirectLink*, *Standard LTE65 car* and *HST LTE65 car*.



- **DirectLink:** Receiverless telemetry, you will have a secure token to identify the stream. Add your token and select the region for the transmitting device. Data streams will appear in the window.

Add Direct Link Connection

Region: USA-Kube

Token:

Raceconnect → Device, Device Token

Ok Cancel

Data streams will appear in the window. Click the green play button to configure the stream.

Telemetry Streams



LTE65 Car - Settings

Name:

Project Key:

Find this value in your Racecon project.

Ini File Folder:

Enter the folder path to your ini files for this car.
Copy this value from a file explorer.

Ok Cancel

Bytes / sec (B/s) is the raw data stream.

Packets/ sec (P/s) is the decoded data. (If you have Bytes but not Packets, check the Project Key and .INI file)

- If the LTE65 is connected to the logger via Ethernet and the logger has the appropriate firmware, the .INI file will be passed automatically from the logger to WDServer on your PC. When the .ini file is passed automatically, the *INI-Folder* field will not be available. The *Key* still needs to be correct.

Telemetry Streams

Cars / Data Streams

Bosch Cloud: USA-Kube / 71e24cd6e41f89961a22683b5d585edf			⚙️	🗑️
■ Backfill Test 0015: Backfill Test 0015	4380 B/s	25 P/s	⚙️	🗑️

Direct Link ▾

LTE65 Car: A receiver is being used to receive data from the car.

Configure the Project Key and .INI File. The .INI file must be on the local machine with receiver based telemetry.

LTE65 Car - Settings

Name:

Project Key
Find this value in your Racecon project.

Ini File Folder
Enter the folder path to your ini files for this car.
Copy this value from a file explorer.

Ok

Cancel

Enter the Port Settings and LAN IP of the receiver.

Ethernet/UDP Port - Settings

Ethernet/UDP Port:
Enter the port defined in Raceconnect.

LTE65 Keep-Alive IP:
Enter the LAN IP of your LTE65 Receiver. (Probably 10.10.0.235)

Ok

Cancel



To change stream properties later, simply click on the gear to re-enter the Settings menu.

Telemetry Streams

Cars / Data Streams

Bosch Cloud: USA-Kube / 71e24cd6e41f89961a22683b5d585edf			⚙️	🗑️
■ Backfill Test 0015: Backfill Test 0015	4385 B/s	25 P/s	⚙️	🗑️
■ Test (LTE65)			⚙️	🗑️
UDP - Port: 15001		0 B/s	0 P/s	⚙️

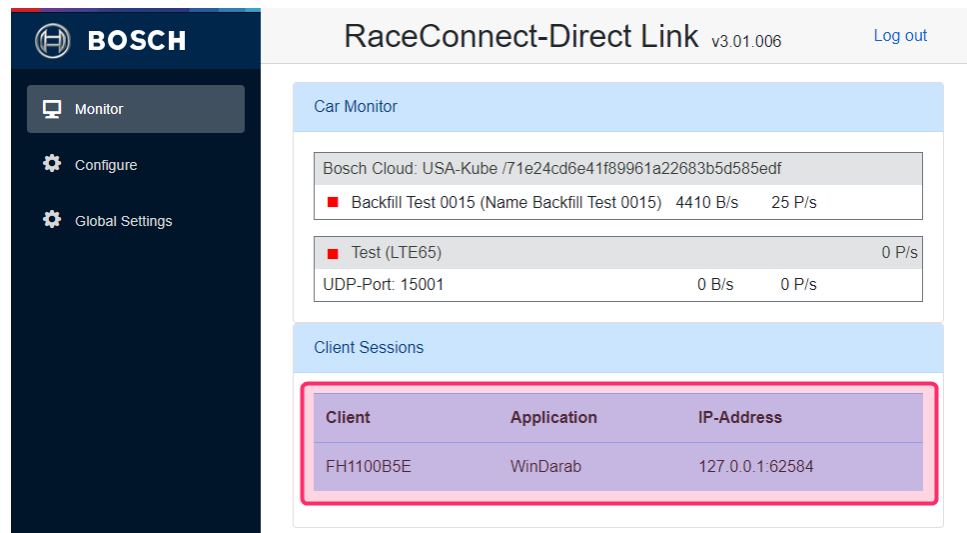
+ Add Datasource

Standard LTE65 car ▾



6 Settings

To view the client PCs that are viewing decoded telemetry data from your DirectLink session, go to *Monitor / Client Sessions*.



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Monitor

Car Monitor

Bosch Cloud: USA-Kube / 71e24cd6e41f89961a22683b5d585edf

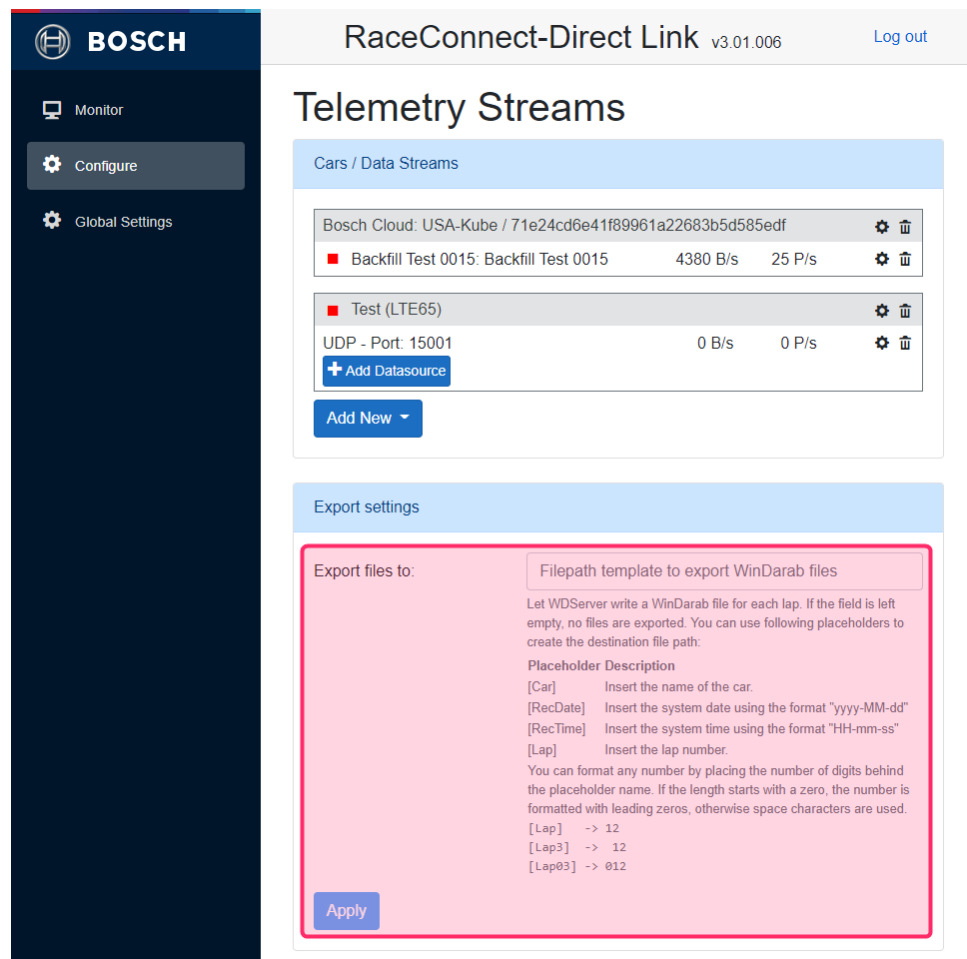
■ Backfill Test 0015 (Name Backfill Test 0015)	4410 B/s	25 P/s
--	----------	--------

■ Test (LTE65)		0 P/s
UDP-Port: 15001	0 B/s	0 P/s

Client Sessions

Client	Application	IP-Address
FH1100B5E	WinDarab	127.0.0.1:62584

To write a WinDarab file at the end of each lap of the telemetry data, configure the Export Settings. This is under *Configure / Export Settings*.



BOSCH RaceConnect-Direct Link v3.01.006 [Log out](#)

Configure

Telemetry Streams

Cars / Data Streams

Bosch Cloud: USA-Kube / 71e24cd6e41f89961a22683b5d585edf

■ Backfill Test 0015: Backfill Test 0015	4380 B/s	25 P/s		
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■ Test (LTE65)				
UDP - Port: 15001	0 B/s	0 P/s		

[+ Add Datasource](#)

[Add New](#)

Export settings

Export files to:

Filepath template to export WinDarab files

Let WDServer write a WinDarab file for each lap. If the field is left empty, no files are exported. You can use following placeholders to create the destination file path:

Placeholder Description

[Car] Insert the name of the car.
 [RecDate] Insert the system date using the format "yyyy-MM-dd"
 [RecTime] Insert the system time using the format "HH-mm-ss"
 [Lap] Insert the lap number.

You can format any number by placing the number of digits behind the placeholder name. If the length starts with a zero, the number is formatted with leading zeros, otherwise space characters are used.

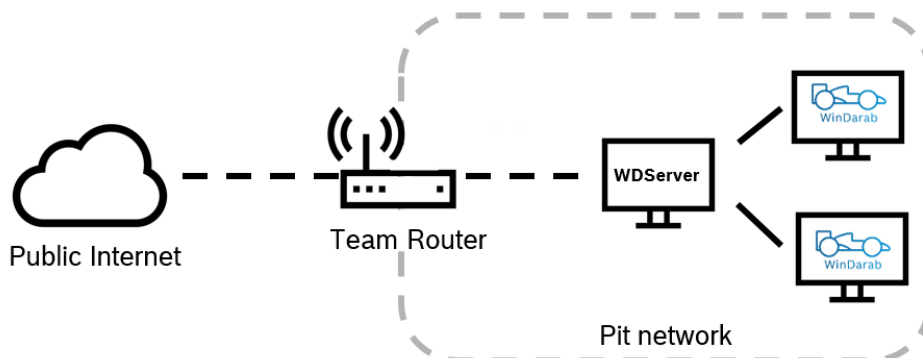
[Lap] -> 12
 [Lap3] -> 12
 [Lap03] -> 012

[Apply](#)



7 Pit Network Setup

Bosch recommends using a private pit network with router for connection to online telemetry. WinDarab searches the connected networks of a PC for active data streams created by WDServer. When using an internet-connected network to receive data from WDServer and Direct Link, please ensure that the network is protected from public internet.



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