



The Trailer Company.

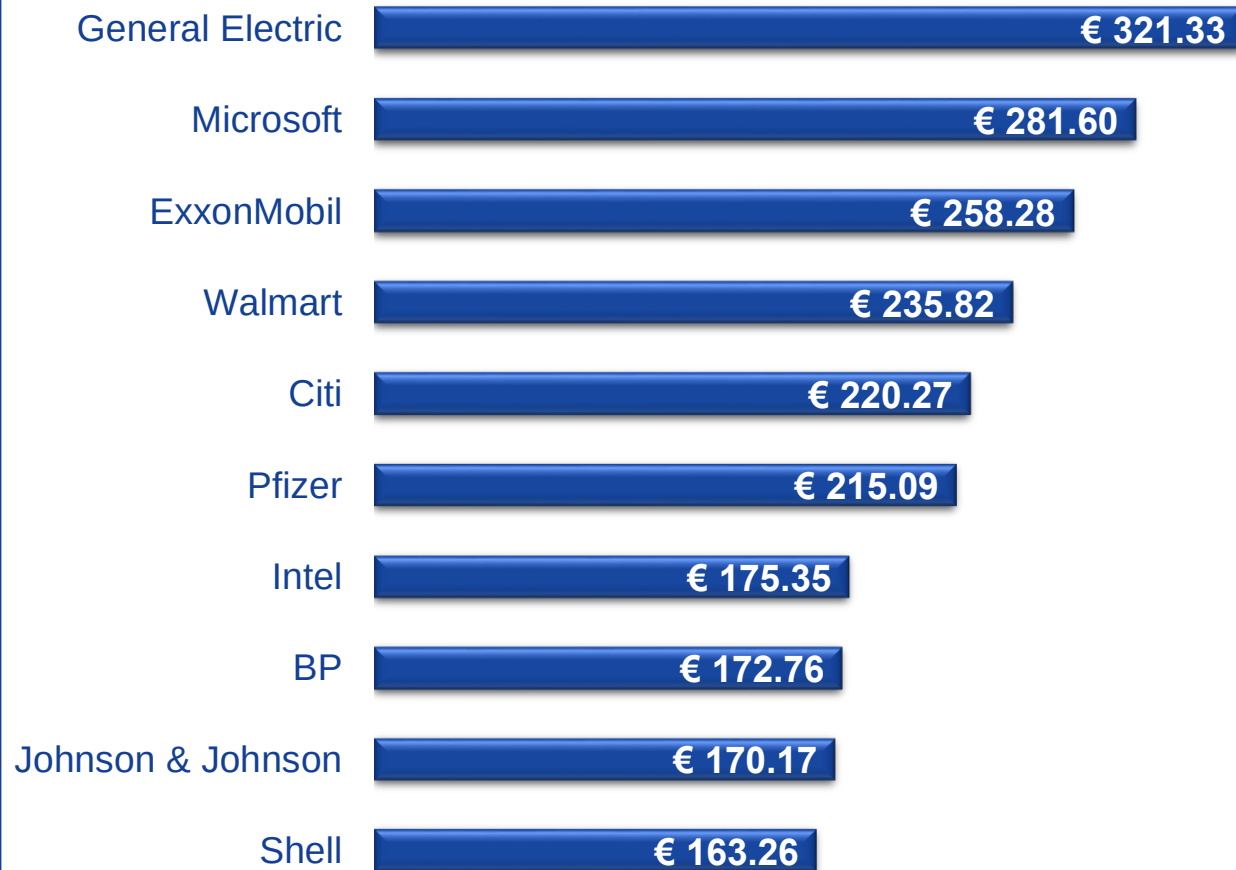
Trailer Technology – Today and Tomorrow



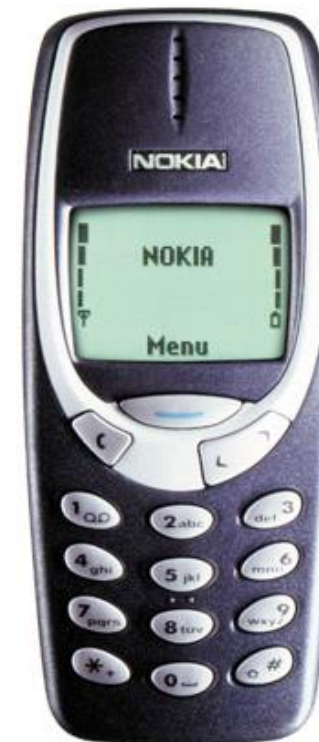
Steve Vincent

Head of Aftermarket UK & Ireland

Most valuable companies 2001*
by market cap in billion€



Technology in 2001*



Most valuable companies 2018*
by market cap in billion€



Technology in 2018*





“Box on wheels”





Temperature sensor 4



Temperature sensor 3



Temperature sensor 3



Temperature sensor 1



Tractor unit identification



Radio signal



Mileage



Route

SCHMITZ
CARGOBULL

The Trailer Company.



Speed



Tyre pressure



Axle load



Coupling sensor



Refrigeration unit control



Door sensor



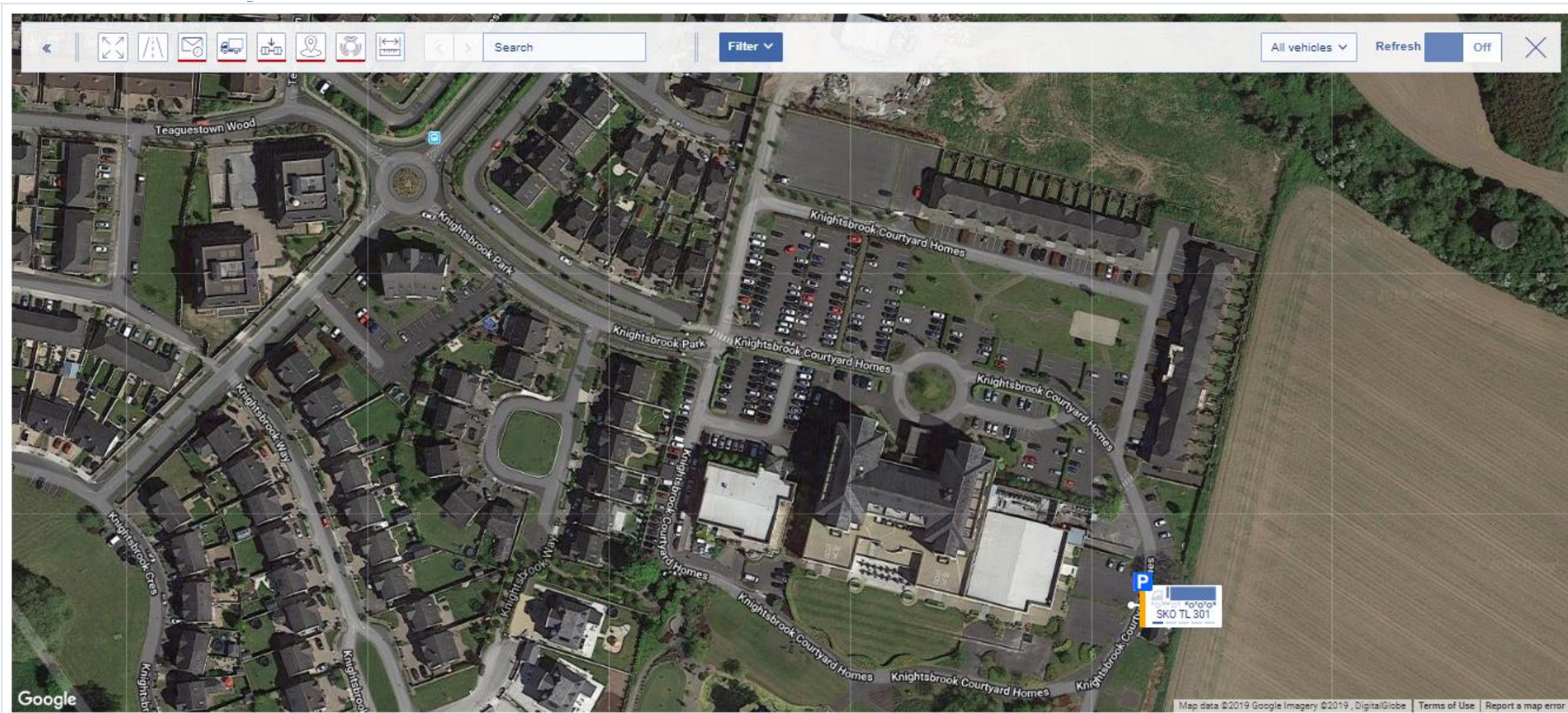
Brake pads



Fuel sensor



Battery





The Trailer Company.



Event log

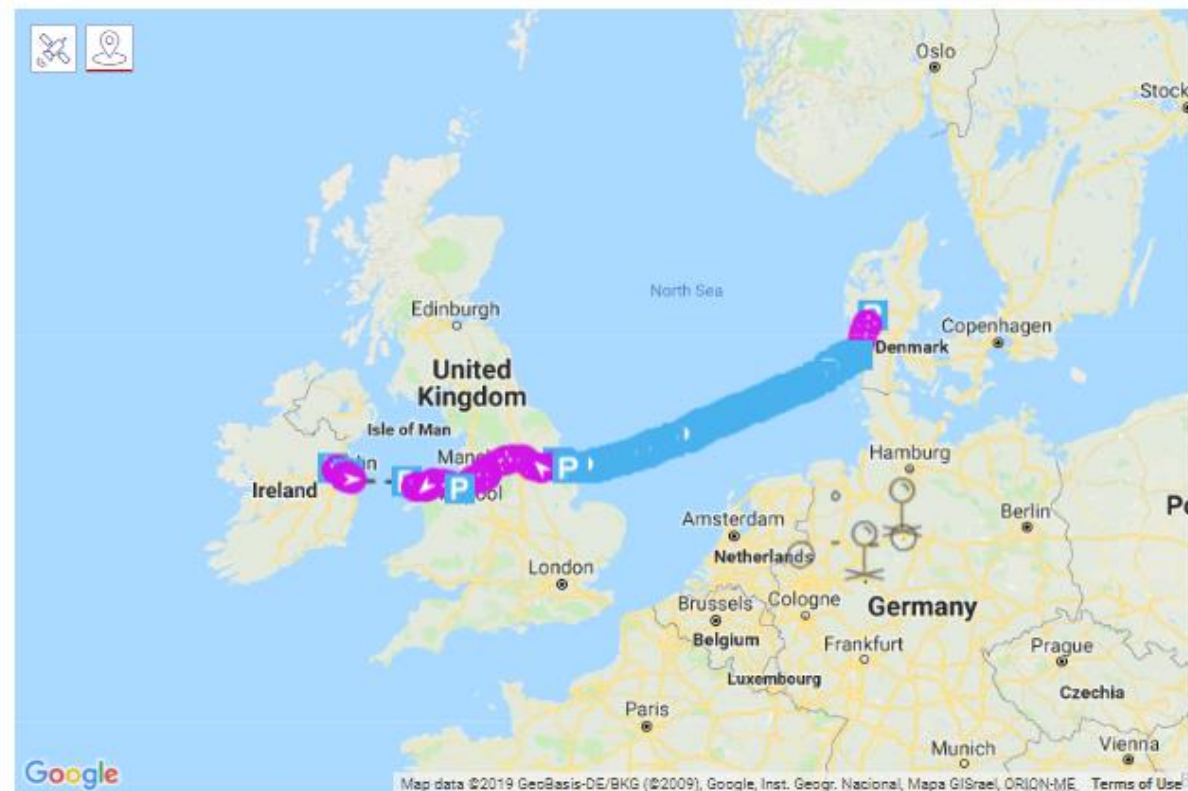
Position history



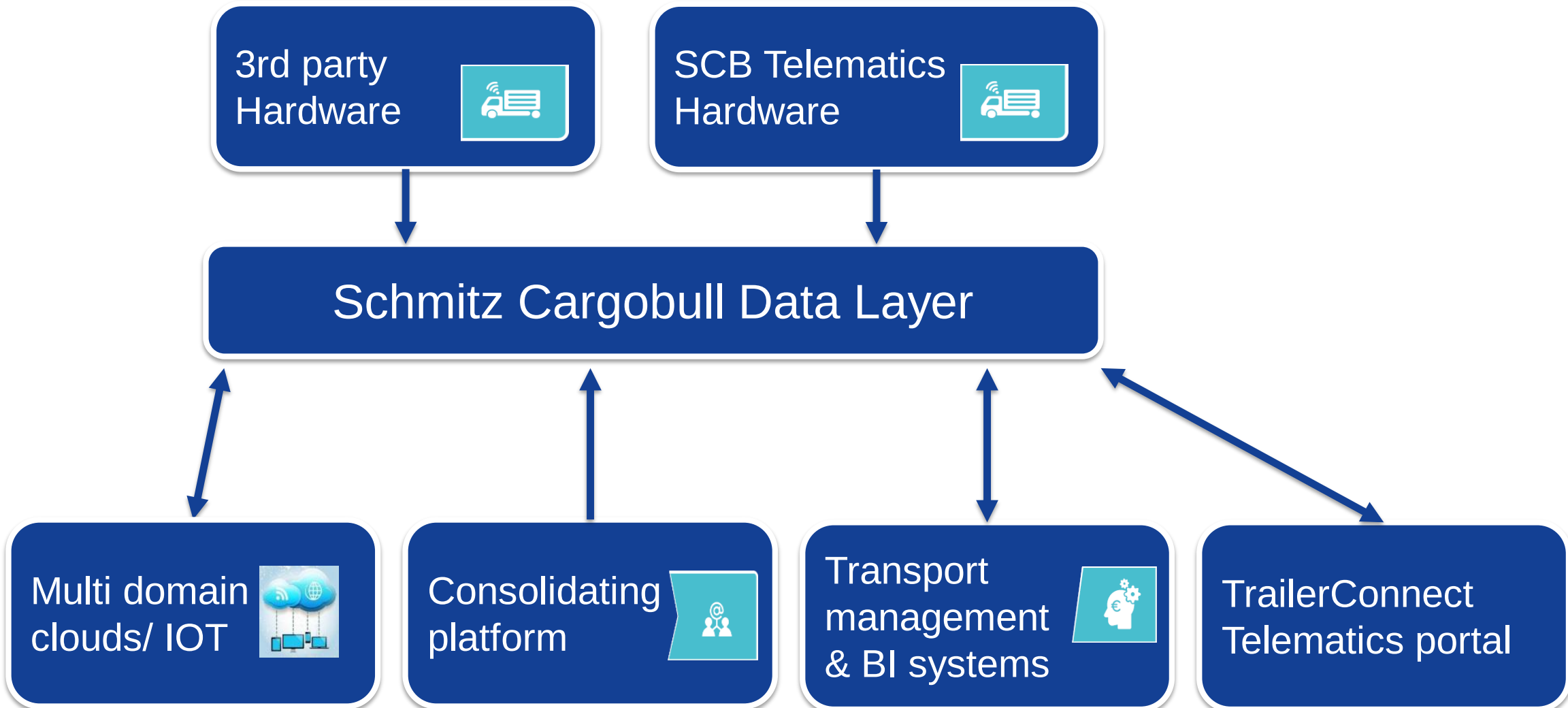
Default displ... ▾



▼ Date	Position					
28.03.2019 02:28:46	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		3,5	3,6		
27.03.2019 18:28:50	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		12,3	12,4		
27.03.2019 18:28:37	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		12,3	12,4		
27.03.2019 10:28:44	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		10,6	10,9		
27.03.2019 02:28:44	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		4,0	4,1		
26.03.2019 18:33:24	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		17,7	17,9		
26.03.2019 18:33:14	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		17,7	17,9		
26.03.2019 18:30:37	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		17,5	17,7		
26.03.2019 18:28:58	IE, C15 A7D0 Trim Knightsbrook Courtyard Home...		17,4	17,6		



Multiple solutions under one platform



REMOTE DIAGNOSTIC FUNCTION – FOR ALL SUPPLIERS AND SUBSYSTEMS

Vorfall	Behebung										
Datum	Position	Datum	Position								
12.12.2015 00:36	33613 Bielefeld, Jöllenbecker Str. 41	14.12.2015 09:35	Trailerservice UHB Altenberge	AUXIO2 elektrischer Fehler	006B00	125.121,0		Knorr TEBS G2.2	1045	343	
03.01.2016 20:09	49439 Steinfeld, Am Nordufer. 12a	04.01.2016 11:04	Trailerservice UHB Altenberge	Bremsbelag vorne links verschlissen	291	129.783,0		SCB Reifendruckkontrolle	1110	361	
03.03.2016 06:21	49451 Holdorf Brinkstrasse 23	03.03.2016 10:54	26135 Oldenburg Kanalstraße 67	Unterspannung in Motorversorgung	102	134.618,7		SCB Schließsystem TL3	1179	380	
27.03.2016 06:21	20354 Hamburg Neuer Jungfernstieg 12	02.04.2016 12:12	Trailerservice UHB Altenberge	Wartung Elektrobetrieb fällig	12	139.634,6		Carrier Vector 1550	1252	400	
28.03.2016 22:30		28.03.2016	Trailerservice UHB Altenberge	Drehzahlsensor S-A SW. nicht plausibel	001C00	144.837,4		Knorr TEBS G2.2	1329	422	
19.04.2016 00:30	Raststätte Münsterland			Reifendruck hinten rechts kritisch: 7,5 bar	121	150.234,0		Knorr TEBS G2.2		444	
07.05.2016 01:31	Carrier Service Hamburg			Alarm Abtausicherheitsschalter	45	155.831,8		Carrier Vector 1550			
06.09.2016 23:55	Carrier Service Hamburg			Alarm Batteriespannung	53	161.638,2		Carrier Vector 1550			
01.10.2016 00:23	33613 Bielefeld Jöllenbecker Str. 41			Unterbrechung Temperatursensor-1	102	167.660,7		SCB Temperatursensor			
07.10.2016 01:31	Carrier Service Hamburg			Glühkerze prüfen	40	173.907,7		Carrier Vector 1550			
06.09.2016 23:55	Carrier Service Hamburg			Glühkerze prüfen	40	180.387,5		Carrier Vector 1550			
01.10.2016 00:23	33613 Bielefeld Jöllenbecker Str. 41	04.10.2016 09:08	Carrier Service Hamburg	Abtau Thermistor 1 prüfen	124	155.831,8		Carrier Vector 1550			

Maintenance needed
Electric mode
Rev.sensor S-A

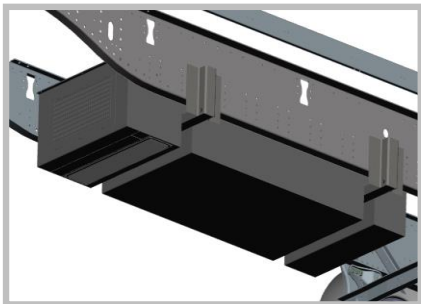
Carrier Vector 1550
Knorr TEBS G2.2



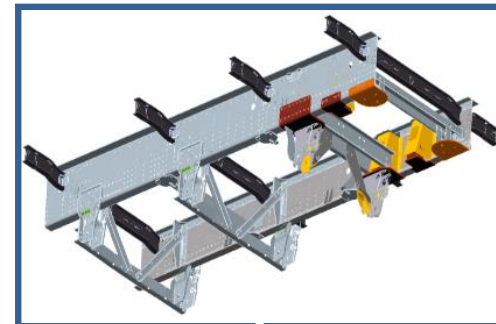
Schmitz Cargobull Electric Refrigeration unit



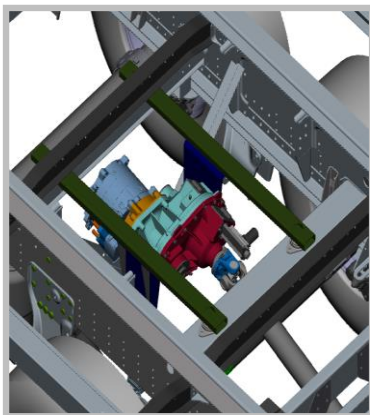
Battery Storage



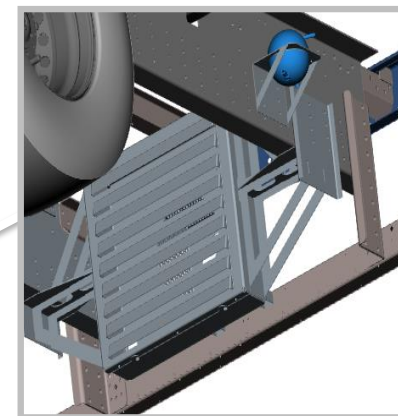
Integration of drive axle



Motor, Generator and Transmission

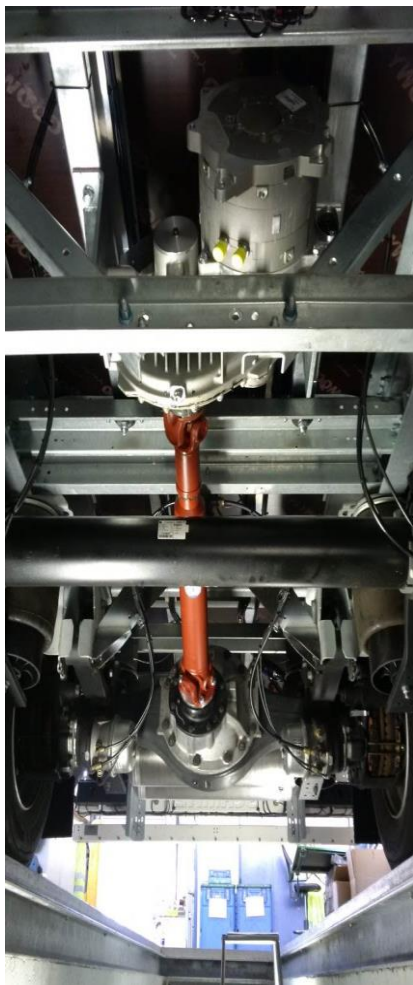


Cooling System





Power Regeneration



TRANSFORMERS

“Configurable and adaptable trucks
and trailers for optimal transport”



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