

Index

Table of Contents

Table of Contents i

List of Figures iv

Executive summary 1

1 Fleet management solutions 2

 1.1 Fleet management infrastructure 2

 1.1.1 Vehicle segment 3

 1.1.2 GNSS segment 7

 1.1.3 Network segment 7

 1.1.4 Backoffice segment 9

 1.2 Vehicle management 10

 1.2.1 Vehicle diagnostics and maintenance planning 10

 1.2.2 Security tracking 11

 1.3 Driver management 11

 1.3.1 Driving data registration and analysis 11

 1.3.2 Video-based driver monitoring 12

 1.3.3 Eco-driving schemes 12

 1.3.4 Insurance risk management 13

 1.4 Operations management 14

 1.4.1 Routing and navigation 14

 1.4.2 Transport management 14

 1.4.3 Mobile workforce management 15

 1.5 Regulatory compliance and reporting 16

 1.5.1 Fatigue management and Electronic Work Diaries (EWD) 16

 1.5.2 Intelligent Access Program (IAP) and Intelligent Speed Compliance (ISC) 18

 1.5.3 Road User Charges (RUC) 20

 1.5.4 Health and safety regulations 21

 1.5.5 Other applications 22

 1.6 Business models 23

- 2 Market forecasts and trends 25
 - 2.1 Market analysis 25
 - 2.1.1 Commercial vehicle fleets in Australia and New Zealand 25
 - 2.1.2 Fleet management installed base and unit shipments 28
 - 2.1.3 Fleet management vendor market shares 28
 - 2.1.4 Local market characteristics in Australia and New Zealand 29
 - 2.2 Market drivers and barriers 31
 - 2.2.1 Macroeconomic environment 31
 - 2.2.2 Regulatory environment 32
 - 2.2.3 Competitive environment 33
 - 2.2.4 Technology environment 34
 - 2.3 Value chain analysis 35
 - 2.3.1 Telematics industry players 35
 - 2.3.2 Automotive industry players 39
 - 2.3.3 Telecom industry players 44
 - 2.3.4 IT industry players 46
 - 2.4 Future industry trends 48
- 3 Company profiles 50
 - 3.1 International aftermarket solution providers 50
 - 3.1.1 Ctrack 53
 - 3.1.2 Fleet Complete 55
 - 3.1.3 Fleetmatics (Verizon) 58
 - 3.1.4 Garmin and partners 62
 - 3.1.5 Geotab 64
 - 3.1.6 MiX Telematics 66
 - 3.1.7 Teletrac Navman 70
 - 3.1.8 Telogis (Verizon) 74
 - 3.1.9 TomTom Telematics 77
 - 3.2 Local aftermarket solution providers 80
 - 3.2.1 BIGmate 81
 - 3.2.2 BlackBox Control 82
 - 3.2.3 Blackhawk Tracking Systems 84

3.2.4 Coretex 84

3.2.5 Digital Matter 87

3.2.6 Directed Electronics Australia 88

3.2.7 EROAD 89

3.2.8 Ezy2c (Altech Netstar) 91

3.2.9 Future Fleet 92

3.2.10 GPSEngine 93

3.2.11 IntelliTrac 94

3.2.12 MTDData 96

3.2.13 MyFleet 98

3.2.14 Myionu 99

3.2.15 Netcorp GPS 99

3.2.16 Pinpoint Communications (Altech Netstar) 100

3.2.17 Procon Telematics 101

3.2.18 Smartrak (Constellation Software) 102

3.2.19 TrackIt 104

3.2.20 TurboTrack 104

Glossary 105

Index

List of Figures

Figure 1.1: Fleet management infrastructure overview 3

Figure 1.2: Examples of FM device form factors 4

Figure 1.3: Data interfaces used by FM devices 6

Figure 1.4: Examples of peripherals connected to FM devices 6

Figure 1.5: Example of FM backoffice segment 9

Figure 1.6: Paper-based Australian National Driver Work Diary..... 17

Figure 1.7: TCA Certified for IAP symbol 19

Figure 1.8: Hubodometer & electronic distance recorder approved by NZ Transport Agency 21

Figure 2.1: Commercial vehicles in use (Australia & New Zealand 2015)..... 25

Figure 2.2: New registrations of commercial vehicles (Australia & New Zealand 2016)..... 26

Figure 2.3: Market shares by truck brand (Australia 2016) 27

Figure 2.4: Active systems, shipments & penetration (Australia & New Zealand 2016–2021)..... 28

Figure 2.5: Top-10 FM providers, by installed base (Australia & New Zealand Q4-2016) 29

Figure 2.6: Financial data for telematics industry players (2016)..... 36

Figure 2.7: Mergers and acquisitions in the fleet telematics sector (2015–2017) 37

Figure 2.8: UD Trucks Fleet Max Plus Android app interface..... 41

Figure 3.1: The Android-based Ctrack On-The-Road (OTR) driver terminal 54

Figure 3.2: MiX Telematics’ 7” MiX Rovi, Android-based MiX Rovi II and RIBAS devices 68

Figure 3.3: Teletrac Navman DIRECTOR and DRIVE app suite 72

Figure 3.4: TomTom Telematics’ WEBFLEET, LINK 530 and PRO 8275 TRUCK 79

Figure 3.5: InControl GPS Tracking web interface from BlackBox Control..... 83

Figure 3.6: Coretex DRIVE tablet interface 86

Figure 3.7: EROAD’s Ehubo and Ehubo2 devices 90

Figure 3.8: Sensium’s ArmadaGPS vehicle tracking interface by GPSEngine..... 93

Figure 3.9: IntelliTrac GPS Tracking System software interface 95

Figure 3.10: MTData’s Talon in-vehicle driver solution..... 97