

# REFERENCES

# EKE

EKE-Electronics



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EKE-Electronics' Train Control and Management System references split by train type: high speed trains, commuter trains, metros, trams, passenger coaches, locomotives and others. Selected references starting from 1990.

## High speed or long distance trains



Eurotunnel The Shuttle, UK/France

1990-1994 | 180 cars

- Train Control & Management System
- EKE-Trainnet Gateways



VR Pendolino, Finland

1995-2001 | 18 trains, 108 cars

- EKE-Trainnet Gateways
- Event recorders with Rugged Memory
- Speedometers

**ALSTOM**



Virgin Cross Country Trains, UK

1999-2001 | 352 cars

- Train Communication Network
- WTB-LON Gateway

**BOMBARDIER**



Spirit of Queensland, Australia

1999-2003 | 3 trains, 29 cars

- Train Control & Management System
- WTB-MVB Gateways
- Event Recorders
- Human-Machine Interfaces

**Downer EDI  
Rail**



Tilting train, China

2001

- Train Communication Network
- WTB-MVB Gateways

(CONFIDENTIAL)

High speed train, China

2001

- Train Communication Network
- WTB-MVB Gateways



**EKE**



G7 High Speed Train, Korea  
2002| 1 train (prototype)

- Event recorders with Rugged Memory



Hull Trains, UK  
2002-2004 | 4 trains

- Train Communication Network
- WTB Gateways



Midlands mainline, UK  
2002-2004 | 127 cars

- Train Communication Network
- WTB Gateways



Allegro Trains, Finland/Russia  
2008 | 4 trains, 28 cars

- Event recorders with Rugged Memory
- Control panels
- Speedometers



Talgo Dual Trains, Spain  
2010-2012| 15 trains, 30 cars

- Train Communication Network
- MVB-CAN Gateways



Talgo AVRIL High Speed Train, Spain  
2010-2014| 1 train (prototype)

- Train Control & Management System
- WTB-MVB-CAN-Ethernet Gateways
- I/O modules with SIL-2 functionalities





*Talgo*

Haramain High Speed Train, Saudi Arabia  
2014-2017 | 36 trains, 368 cars

- Train Control & Management System
- WTB-MVB-CAN-Ethernet Gateways
- I/O modules with SIL-2 functionalities



**CAF**

Flytoget Oslo Airport Link, Norway  
2016-2018 | 8 trains, 32 cars

- Onboard computer with SIL functions



**QueenslandRail**

Spirit of Queensland, Australia  
2018-2019 | 3 trains, 29 cars

- SmartVision™ RCMS
- Event recorders with Rugged Memory
- Ethernet Switches



*Talgo*

RENFE AVE AVRIL trains, Spain  
2019-2020 | 30 trains, 420 cars

- Train Control & Management System
- WTB-MVB-CAN-Ethernet Gateways
- I/O modules with SIL-2 functionalities



**EKE**



## Commuter trains



**VALMET**

VR Sm1 and Sm2 Trains, Finland  
1992-2000 | 100 trains, 200 cars

- Train Communication Network
- EKE-Trainnet Gateways
- Event Recorders with Rugged Memory
- Speedometers and Displays



**CAF ALSTOM**

SVR Sm4 Trains, Finland  
1998-2005 | 30 trains, 60 cars

- Event Recorders with Rugged Memory
- Speedometers
- Displays



**ŠKODA**  
TRANSPORTATION

VR Dm12 Trains, Finland  
2003-2005 | 16 trains, 16 cars

- Event Recorders with Rugged Memory
- Speedometers
- Displays



**kontron**

AGC Regional Trains (SNCF), France  
2003-2010 | 192 trains, 576 cars

- Train Communication Network
- WTB-MVB Gateways



**UGL**

Hunter Rail Cars, Australia  
2004-2006 | 7 trains, 14 cars

- Train Control & Management System
- WTB-CAN Gateways
- Event Recorders with Rugged Memory
- Displays



**ALSTOM**

Storstockholms Lokaltrafik X60, Sweden  
2004-2006 | 71 trains, 426 cars

- Train Communication Network
- WTB-MVB Gateways



**EKE**

## Commuter trains



**STADLER**

FLIRT, Finland

2007-2014 | 32 trains, 128 cars

- Event recorders with Rugged Memory
- Speedometers
- Displays



**STADLER**

EW60 Commuter Trains, Poland

2007 | 1 train (prototype)

- Human-Machine Interfaces



**ALSTOM**

Skånetrafiken X61 Trains, Sweden

2008-2010 | 49 trains, 196 cars

- Train Communication Network
- WTB-MVB Gateways



**Dowcor-EDI  
Rail**

Sydney Waratah Trains, Australia

2008-2013 | 78 trains, 626 cars

- Train Control & Management System
- Ethernet gateways and HMIs
- Event Recorders with Rugged Memory
- PIS/PA system and Radio link interface



**STADLER**

Regio Shuttle, multiple countries

2009-2011 | multiple trains and operators

- Train Communication Network
- WTB-CAN Gateways



**ŠKODA  
TRANSPORTATION**

Slovakian Railways Škoda EMU, Slovakia

2010-2015 | 19 trains, 57 cars

- Train Communication Network
- WTB-CAN Gateways



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## Commuter trains



**CNR**  
中国北车

Bangladesh Railway DMU, Bangladesh  
2011-2012 | 20 trains, 60 cars

- Train Communication Network
- WTB-MVB Gateways



**ŠKODA**  
TRANSPORTATION

Czech Railways Škoda EMU, Czech Republic  
2012-2015 | 28 trains, 84 cars

- Train Communication Network
- WTB-CAN Gateways



**KONČAR**

HZ KONČAR DMU-EMU, Croatia  
2014 | 44 trains, 164 cars

- Train Communication Network
- WTB-CAN Gateways



**CAF**

TransPennine Express EMU, UK  
2017-2019 | 25 trains, 125 cars

- Onboard computer with SIL functions and GPS positioning system
- Human-Machine Interfaces



**CAF**

Arriva Northern DMU-EMU, UK  
2017-2019 | 98 trains, 281 cars

- Onboard computer with SIL functions and GPS positioning system
- Human-Machine Interfaces



**CAF**

West Midlands Trains, UK  
2018-2020 | 26 trains, 80 cars

- Onboard computer with SIL functions and GPS positioning system
- Human-Machine Interfaces



**EKE**



## Metros



  
**ADtranz**

London Underground, UK

1990-1995 | 87 trains, 700 cars

- Train Control & Management System
- EKE-Trainnet Gateways
- Brake controller interfaces



 **MTR 港鐵**

MTR Hong-Kong Metro, China

2005-2007 | 348 cars

- Train Control & Management System
- WTB Gateways
- Event Recorders



**ALSTOM**

São Paulo Metro Line 2, Brazil

2008-2010 | 96 cars

- Event Recorders with Rugged Memory



  
**COMSA  
EMTE**

Barcelona Metro, Spain

2009-2010 | 10 trains, 50 cars

- Train Communication Network
- Ethernet-MVB Gateways



**MTTREN**S Consortium

São Paulo Metro Line 3, Brazil

2010-2013 | 25 trains, 150 cars

- Train Control & Management System
- Ethernet Gateways
- Event Recorders with Rugged Memory
- PIS/PA, Emergency phones, CCTV etc.



**BOMBARDIER**

São Paulo Metro Line 15 Monorail, Brazil

2012-2013 | 54 trains, 378 cars

- Event Recorders with Rugged Memory



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## Metros



**STADLER**

Berlin Metro, Germany  
2014 | 2 trains, 8 cars (prototypes)

- Train Communication Network
- WTB-CAN Gateways



**MEDCOM**  
AC & DC POWER SOLUTIONS  
TRACTION CONVERTERS

Kiev Metro, Ukraine  
2014 | 1 train, 5 cars (prototype)

- Train Control & Management System
- WTB-MVB-CAN Gateways
- Event Recorders with Rugged Memory



**CSR 南车时代**

Nanjing Metro, China  
2014 | 13 trains, 78 cars

- Train Control & Management System
- MVB Gateways



**CSR 南车时代**

Shenzhen Metro Line 3, China  
2014-2015 | 33 trains, 198 cars

- Train Control & Management System
- MVB Gateways



**BOMBARDIER**

Riyadh Metro, Saudi Arabia  
2014 | 47 trains, 94 cars  
Event Recorders with Rugged Memory



**中国中车  
CRRC**

Izmir Metro, Turkey  
2016-2017 | 17 trains, 85 cars  
• Event Recorders with Rugged Memory



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## Metros



Hefei Metro Line 2, China

2016-2017 | 28 trains, 168 cars

- Train Control & Management System
- MVB Gateways



Esfahan Metro, Iran

2016-2017 | 3 trains, 15 cars

- Train Control & Management System
- MVB-CAN Gateways
- Event Recorders with Rugged Memory



London Underground, UK

2017-2023 | 85 trains, 680 cars

- Train Control & Management System (Data Transmission System)
- Brake controller interfaces
- Event Recorders with Rugged Memory



Melbourne HCMT, Australia

2018-2019 | 65 trains, 455 cars

- Train Control & Management System
- TCN Gateways
- Event recorders with Rugged Memory



São Paulo Metro Line 13, Brazil

2018-2019 | 8 trains, 64 cars

- Train Control & Management System
- MVB-WTB Gateways



LUL Bakerloo and Central Lines, UK

2018-2023 | 121 trains, 932 cars

- PIS/PA





## Trams



Sevilla CAF URBOS 3 Trams, Spain  
2009-2011 | 5 trams

- Event Recorders with Rugged Memory



Zaragoza CAF URBOS 3 Trams, Spain  
2009-2011 | 21 trams

- Event Recorders with Rugged Memory



Granada CAF URBOS 3 Trams, Spain  
2011-2013 | 13 trams

- Event Recorders with Rugged Memory



Stuttgart Trams, Germany  
2012-2014 | 20 trams, 40 cars

- Train Communication Network
- WTB-CAN Gateways



Astra Imperio Trams, Romania  
2014-2015 | 6 cars

- Passenger Information System (PIS)



Wuhan Supercapacitor Trams, China  
2016 | 21 trams, 84 cars

- Train Communication Network
- MVB Gateways



## Trams



 中国中车  
CRRC

Suzhou Trams Line 2, China  
2016-2017 | 18 trams, 90 cars

- Train Communication Network
- MVB Gateways



 SELLA  
CONTROLS

London Trams, UK  
2019 | 35 trams

- Physical Prevention of Over-Speeding
- Event Recorders with Rugged Memory
- Train to wayside communication



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## Passenger Coaches



**VR** TRANSTECH

VR Intercity Coaches, Finland

1992-1994 | 80 cars

- Train Control & Management System
- EKE-Trainnet Gateways
- Displays



**VR**

VR Regional Coaches, Finland

1992-2002 | 57 cars

- Train Control & Management System
- EKE-Trainnet Gateways
- Displays



**VR**

VR Express Coaches, Finland

1994-1999 | 490 cars

- Train Control & Management System
- EKE-Trainnet Gateways
- Displays



**TRANSTECH**

VR Double Deck Intercity Coaches, Finland

1996-2012 | 152 cars

- Train Control & Management System
- EKE-Trainnet Gateways
- Displays



**BOMBARDIER**

IR Double Deck Coaches, Israel

2000-2019 | 496 cars

- Train Control & Management System
- WTB-MVB Gateways
- Displays



**TRANSTECH**

VR Sleeping Coaches, Finland

2005-2011 | 40 cars

- Train Control & Management System
- EKE-Trainnet Gateways
- Displays



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## Passenger Coaches



SIEMENS

IR Low Floor Push-Pull Coaches, Israel  
2007-2010 | 87 cars

- Train Control & Management System
- WTB-MVB Gateways
- Displays



TEHMIN

CFR Double Deck Coaches, Romania  
2007-2012 | 133 cars

- Train Control & Management System
- WTB-CAN-S/L Gateways
- Passenger Information System (PIS)
- W-LAN radio link to maintenance depot



TEHMIN

CFR Intercity Coaches, Romania  
2007-2012 | 158 cars

- Train Control & Management System
- WTB-CAN-S/L Gateways
- Passenger Information System (PIS)
- W-LAN radio link to maintenance depot



TEHMIN

SC Remarul 16 Februarie Coaches, Romania  
2009-2010 | 58 cars

- Train Control & Management System
- WTB-CAN-S/L Gateways
- Passenger Information System (PIS)



TEHMIN

CFR Sleeping Coaches, Romania  
2009-2012 | 8 cars

- Train Control & Management System
- WTB-CAN-S/L Gateways
- Passenger Information System (PIS)
- W-LAN radio link to maintenance depot



RAILTEC  
SYSTEMS

MOB Golden Pass Coaches, Switzerland  
2009-2012 | 77 cars

- Ethernet Switches/Gateways



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## Passenger Coaches



**TEHMIN**

ArenaWays Passenger Coaches, Italy

2010-2012 | 6 cars

- Train Control & Management System
- WTB-CAN-S/L Gateways
- Passenger Information System (PIS)



**TEHMIN**

Slovakian Rail Push-Pull cars, Slovakia

2011-2013 | 10 trains, 30 cars

- Train Communication Network
- WTB-CAN Gateways



*Talgo*

KTZ Hotel Train, Kazakhstan

2011-ongoing | 338 cars

- Train Control & Management System
- MVB Gateways



**TEHMIN**

VALE Passenger Coaches, Brazil

2013-2014 | 95 cars

- Train Control & Management System
- WTB-CAN Gateways
- Passenger Information System (PIS)



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Talgo Berlin-Moscow Coaches, Russia

2013-2014 | 7 trains, 140 cars

- Train Control & Management System
- MVB Gateways



**TRANSTECH**

VR Double Deck Intercity Coaches, Finland

2013-2015 | 51 cars

- Train Control & Management System
- WTB-MVB-CAN-Ethernet Gateways
- Event Recorders with Rugged Memory
- Displays



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## Passenger Coaches



**CAF**

Caledonian Sleeper, UK

2016-2018 | 75 cars

- Onboard computer with SIL functions and GPS positioning system
- Human-Machine Interfaces



**TRANSTECH**

VR EDI Intercity Coaches, Finland

2018-2019 | 20 cars

- Train Control & Management System
- EKE-Trainnet Gateways
- Displays



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# Locomotives



VR Sr1 Locomotives, Finland  
1990-1998 | 112 locomotives

- Event Recorders with Rugged Memory
- Speedometers
- Displays



VR Sr2 Locomotives, Finland  
1995-1999 | 46 locomotives

- Event Recorders with Rugged Memory
- Speedometers
- Display



VR Dv12, Dr14, and Dr16 Locomotives, Finland  
1999-2001 | 239 locomotives

- Event Recorders with Rugged Memory
- Speedometers
- Displays



New Jersey Locomotives PL-42, USA  
2003-2005 | 33 locomotives

- Train Communication Network
- WTB-MVB Gateways



China Railway Corp. Locomotives, China  
2003-2006 | 100 locomotives

- Train Communication Network
- WTB-MVB Gateways



ÖBB Locomotives 1044, Austria  
2008-2011 | 119 locomotives

- Train Communication Network
- WTB Gateways



## Locomotives



- CLW WAP-7 Locomotives, India  
2009-2014 | 1 locomotive (prototype)
- Train Control & Management System
  - WTB-MVB-CAN Gateways



- PKP Cargo Locomotives, Poland  
2011 | 38 locomotives
- Train Communication Network
  - WTB-CAN Gateways



- IR Vossloh Locomotives, Israel  
2011-2013 | 15 locomotives
- Train Communication Network
  - WTB Gateways
  - Human-Machine Interfaces (HMI)



- Slovakian Railways Škoda Locomotives, Slovakia  
2011-2013 | 10 locomotives
- Train Communication Network
  - WTB-CAN Gateway



- Škoda Trailer Cars, Czech Republic  
2011-2013 | 34 cars
- Train Communication Network
  - WTB-CAN Gateway



- VR Vectron Locomotives, Finland  
2015-2025 | 80 locomotives
- Train Communication Network
  - WTB-CAN-Trainnet Gateway



## Locomotives



Shunting locomotives, Tunisia  
2016-2017 | 7 locomotives

- Event Recorders



## Other vehicles



VR Track Maintenance Machines, Finland  
1999-2003 | 135 vehicles

- Event Recorders with Rugged Memory
- Speedometers



Škoda WTB tester  
2013-2014 | 3 systems

- WTB-CAN Gateway





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