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Excellence in Connectivity Solutions

Fiber Optics in Trains

Project References

Australia



Railcorp fleet for Sydney suburb built by Downer EDI Rail

78 trains – 624 vehicles – New built

1st train in service: July 2011

Intercar jumper type: rectangular Harting



Scope of Supply: Fiber optics backbone for on board video surveillance system.

- Coach Harnesses
- Interverhicle (Jumper) cables

Czech Republik



RegioJet

40 vehicles – Retrofit

1st retro train in service: expected 2013

Intercar Jumper type: circular Souriau
MIL-DTL-38999 *Elio*

Scope of Supply: Fiber optics backbone for on board video surveillance system.

- Coach Harnesses
- Intervehicle (Jumper) cables

Norway



Flytoget Airport Express Oslo

16 trains – 64 vehicles – Retrofit

1st retro train in service: planned summer 2013

Intercar jumper type: feed-through with ODC fan-outs

Scope of Supply: Fiber optics backbone for on board video surveillance system.

- Coach Harnesses
- Interverhicle (Jumper) cables

Poland



SIEMENS

Metro of Warsaw Line 2

35 trains – 210 vehicles – New built

1st train in service: expected Q3/13

Intercar jumper type: rectangular
Harting

Scope of Supply: Fiber optics backbone for passenger information and entertainment system

- Intervehicle jumpers
- Vehicle harnesses

Sweden



BOMBARDIER

Bombardier X55 high speed trains for Swedish state railway, SJ AB

20 trains – 80 vehicles – New built

1st train service: Feb 2012

Intercar jumper type: feed-through with Q-ODC fan-outs

Scope of Supply: Fiber optics backbone for in- train internet, infotainment system (video on demand) and video surveillance.

- Coach Harnesses
- Intervehicle (Jumper) cables

Spain



CAF 900 Series. New fleet for Spanish operator EUSKOTREN

30 trains – 120 vehicles – New built

1st train in service: Feb 2011

Intercar jumper type: feed-through with Q-ODC fan-outs

Scope of Supply: Fiber optics backbone for in- train Passenger Information and video surveillance systems

- Coach Harnesses
- Intervehicle (Jumper) cables

Spain



Metro of Recife (Brazil)

15 trains – 60 vehicles – New built
1st train in service: 2012

Intercar jumper type: feed-through
with Q-ODC fan-outs

Scope of Supply: Fiber optics backbone for passenger information and entertainment system

- Intervehicle jumpers
- Vehicle harnesses

Switzerland



BOMBARDIER ALSTOM

ICN trains for Swiss operator SBB

44 trains – 308 vehicles – New built

1st train in service: 1999

Intercar jumper type: circular
Souriau 8038-series

Scope of Supply: Fiber optics cables for MVB network

- Intervehicle cables
- Vehicle cables

UK



Heathrow Express

14 trains – 61 vehicles – Retrofit

1st retro train in service: June '12

Intercar jumper type: feed-through
with Q-ODC fan-outs

Scope of Supply: Fiber optics backbone for passenger information and entertainment system

- Intervehicle jumpers
- Vehicle harnesses

UK



BOMBARDIER

London Underground

191 trains – 1395 vehicles – New built & retrofit

1st train in service with new ATC: expected 2017

Intercar jumper type: circular
Souriau MIL-DTL-38999 *Elio*

Scope of Supply: Fiber optics backbone for CBTC (train control system) train bus

- Interverhicle jumpers
- Vehicle harnesses

South Africa



TRANSNET



Scope of Supply: Fiber optics backbone for medical equipment and devices

- Vehicle harnesses
- Intervehicle jumpers

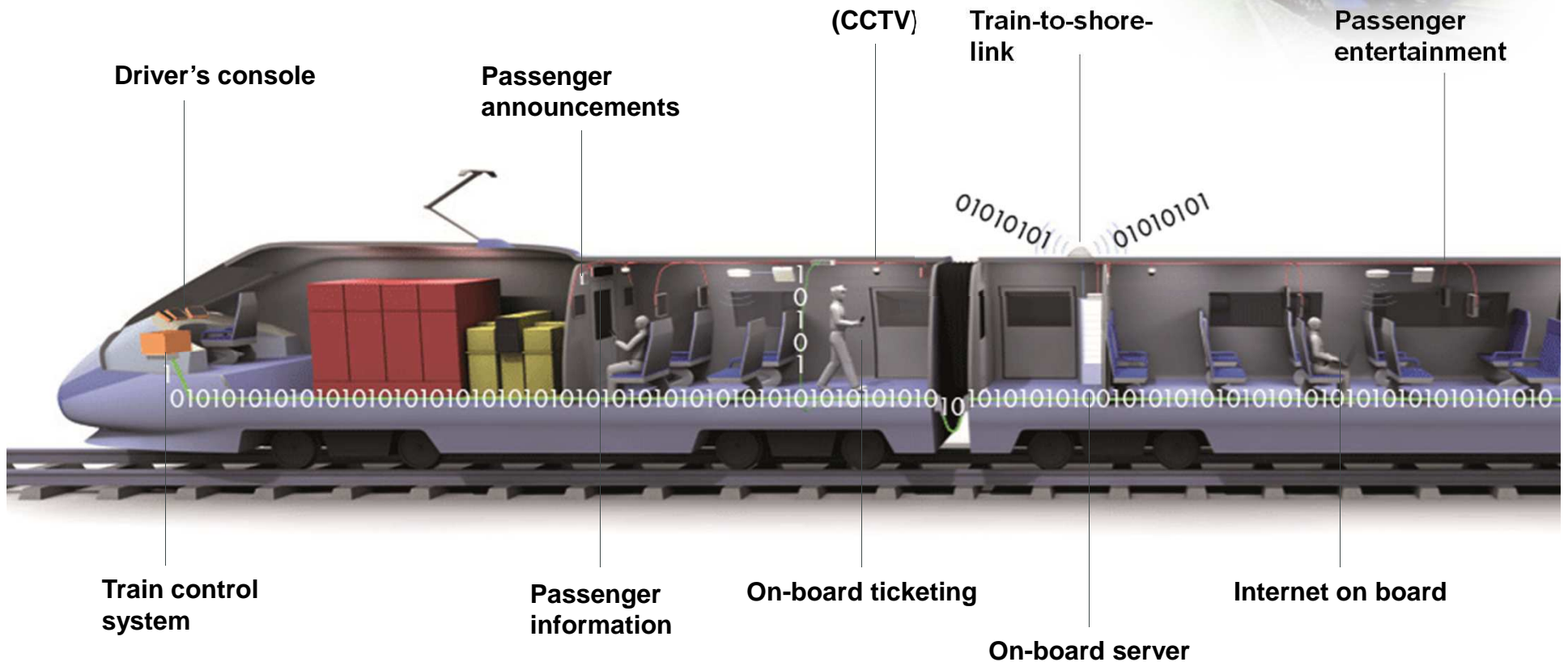
Phelophepa «Health Care Train»

1 train – 18 vehicles – Retrofit

Retro train in service since 2012

Intercar jumper type: rectangular Harting

Connect the train of tomorrow...



Thank you for your attention