

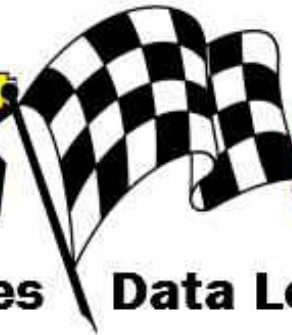
The SOLAS treaty and, how do I weigh my containers accurately?

*by Roger Sack, Managing Director,
Tramanco Pty Ltd.*

One weigh or the other it's

CHEK

Electronic Scales



WAYTM

Data Logging Systems

Designed and manufactured in Australia since 1982.



Tramanco's **CHEK-WAY®** *Eliminator* series of electronic scales are *modular, user friendly* and *tested* in both Australia and overseas.

CHEK-WAY® CWE-5000 Series

Australian Government
IP Australia

LETTERS PATENT

STANDARD PATENT

2004264997

I, Fatima Beattie, the Commissioner of Patents, grant a Standard Patent with the following particulars:

Name and Address of Patentee(s):
Tramanco Pty Ltd
21 Shoobury Street, Rocklea, QLD, 4106, Australia

Name of Actual inventor(s):
Doug, Peter James and Sack, Roger Philip

Title of invention:
A method for logging the performance of a vehicle

Term of Letters Patent:
Twenty years from 19 August 2004

Priority Details:

Number	Date
2003804423	19 August 2003

LETTERS PATENT
Number 54467

BEFOREME THE SECOND, by the State of Queensland and the Other States and Territories, of the Commonwealth, Defender of the Faith, To all to whom these presents shall come, Greeting WHEREAS pursuant to the Patents Act 1953 an application has been made for a patent of an invention for **A method for logging the performance of a vehicle suspension system** (more particularly described in the complete specification relating to the application)

AND WHEREAS

Tramanco Pty Ltd, 21 Shoobury Street, Rocklea, Queensland, 4106, Australia (hereinafter together with its or their successors and assigns or any of them called "the patentee") is entitled to be registered as the proprietor of the patent hereunder granted.

Address for service: CALLEN & CO., Level 2B, 236 George Street, Brisbane, QLD 4001, Australia

NOW, THEREFORE, We by these letters patent give and grant to the patentee our special favour, full power, sole privilege, and authority, that the patentee for himself, his agents, or nominees and no others, may subject to the usual of any statute or regulation for the time being in force making, use, vend, lease and vend the said invention within New Zealand and its dependencies during a term, of twenty years from 19 August 2004 and that the patentee shall have and enjoy whole profit and advantage from time to time according to the tenor of the said invention during the said term.

AND We do hereby command all our subjects whatsoever within New Zealand and its dependencies that they do not any time during said term either directly or indirectly make use of or put into practice the said invention, nor do they or enable the said invention without the consent, licence, or agreement of the patentee in writing, under his hand, or if having such permission as are prescribed by law and of being answerable to the patentee according to law for the damages thereby occasioned.

PROVIDED ALWAYS:

- That these letters patent shall operate and remain void if the patentee does not have been to take any step to be named, as required by law in respect of the patent.
- That these letters patent are revocable on any of the grounds authorized by the Patents Act 1953 as regards the true nature of the invention.
- That nothing in these letters patent shall prevent the granting of licences in the manner in which and for the purposes or objects then or hereinafter provided.
- That these letters patent shall be construed in the most beneficial sense for the advantage of the patentee.

IN WITNESS whereof We have caused these letters patent to be signed and sealed on 12 December 2007 with which 19 August 2004.

Neville Harris
Neville Harris
Commissioner of Patents, Trade Marks and Designs

REPUBLIC OF SOUTH AFRICA
REPUBLIEK VAN S



PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is

Tramanco Pty Ltd

has been granted a patent in respect of an invention described and claimed in a specification deposited at the Patent Office under the number

2006/00543

A copy of the complete specification is annexed, together with the

In testimony thereof, the seal of the Patent Office has been affixed at

from the **31st** day of **January 2007**



Reginald
Reginald

The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.


Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.



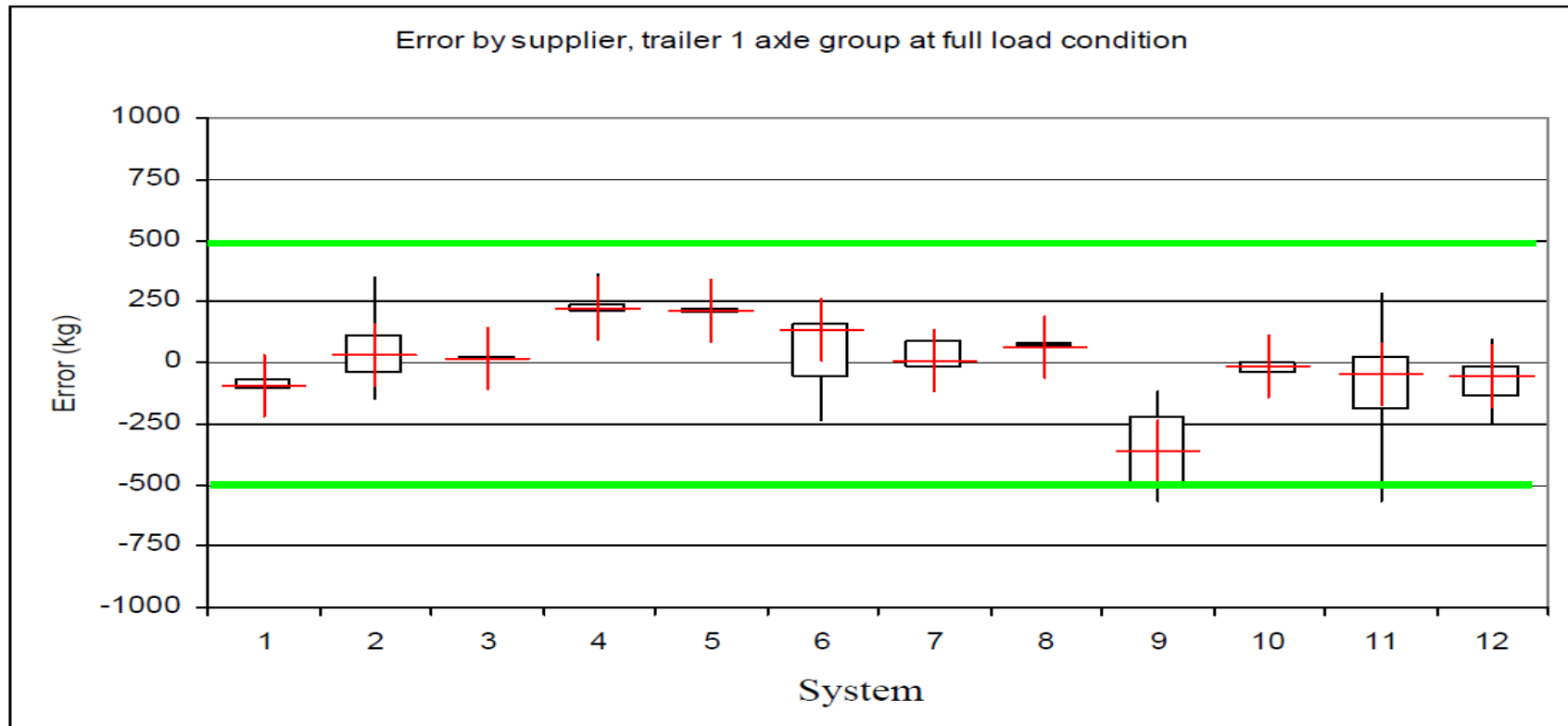
John Doll
John Doll
Acting Director of the United States Patent and Trademark Office



Introduction

- **Topics to be covered:**
 - Tramanco Pty Ltd – who we are, what we do
 - In business since **May 1975** (41 years next month)
 - Totally Australian owned – write software in-house
 - **Accuracy, Repeatability, Interoperability, Tamper Evidency, A.R.R.B. tests in 2008/09 for the T.C.A.'s Industry Reference Group**
 - The NHVR, C.O.R., O.H.&S. and Reasonable Steps
 - Applications - Transport Reform - Last Mile Access
 - Questions?

ACCURACY - Box and Whisker chart.



- *Figure 1. Indicative kg error findings for typical 20,000kg trailer group across the 12 OBM systems available and tested in Australia in 2008 (from Karl, Davis, Cai et al, 2009).*

Accuracy - Explanation

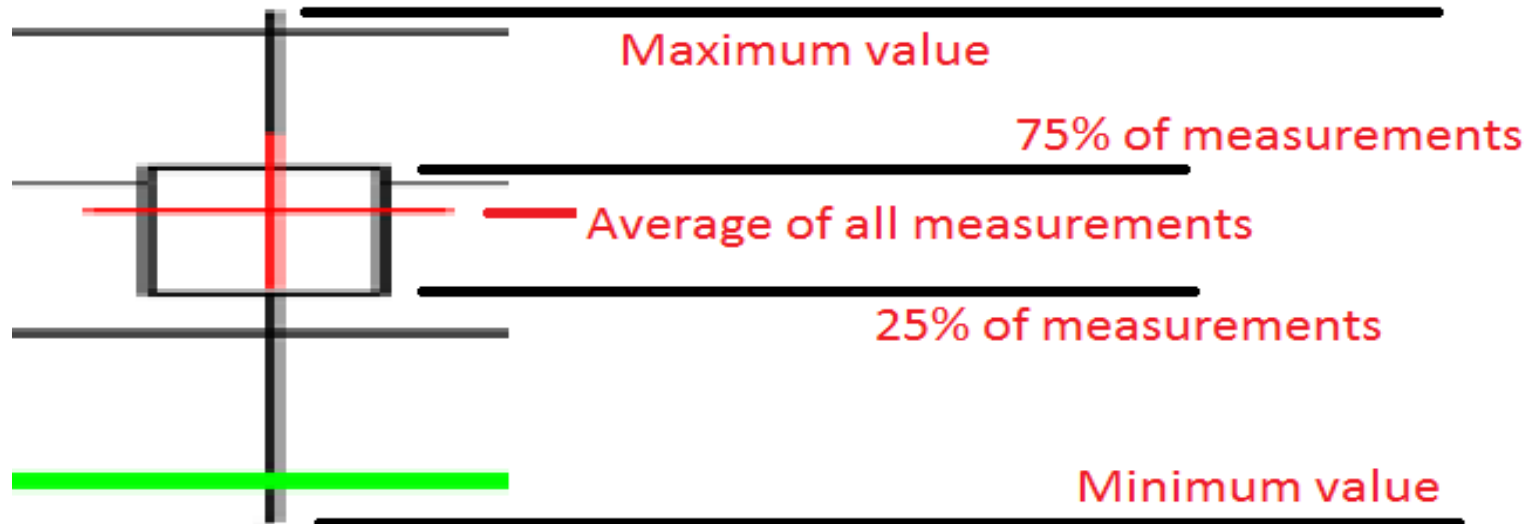


Figure 2. Detail of each “box-and-whisker” entry from Figure 1. The range of all measurements for the OBM system being measured is indicated by the length of the vertical line going through each box corresponding to that system’s measurements. The 75th and 25th percentile values are shown by the top and bottom of the box respectively. **The average of all measurements is indicated by the value at the centre of the red cross.**

Results of the A.R.R.B. tests for T.C.A.

Regarding Figure 1 and taking in the box-and whisker plot explanations of Figure 2, it may be seen that the rigorous testing undertaken for the OBM system report showed that the CHEK-WAY® OBM systems reported (at worst) readings that were in error, on average, by 50kg in 20,000 kg over the 110 or so readings taken across all the tests covered in the report.

In other words, the CHEK-WAY® OBM systems read (say) an average of 19,950 kg whenever 20,000kg was present on the test axle group.

Further, 50% of measurements across the 110+ test readings were (at worst) corresponding to an error of 200kg for an axle group reading equivalent to 20,000kg. ***This means that the CHEK-WAY® OBM systems*** read an average of 19,800 kg when 20,000kg was present on the test axle group ***which translates to a 1% error reading or an effective “legal for trade” status for CHEK-WAY® OBM systems.***



TRAMANCO Pty Ltd
Phone: +61 7 3892 2311 Fax: +61 7 3892 1819
A.B.N. 62 010 101 872 A.C.N. 010 101 872
Email: info@tramanco.com.au



STATEMENT OF ACCURACY

February 2016

Tramanco Pty Ltd guarantees its Australian designed **CHEK-WAY® ELIMINATOR** and **KWIK-CHEK® Electronic Weighing & Data Logging Systems** which we design and manufacture at our premises at 21 Shoebury St, Rocklea, Qld 4106, Australia, to have an installed or operating accuracy range of +/- 0.75% (or better) of applied load if used and maintained as recommended.

This means that a load of 20,000 kgs will be weighed and displayed as either 19,850 kgs or as 20,150 kgs (or better).

These percentages are variations and are not accumulative. In other words, the weight will be displayed as accurate to within 0.75%, or better, of the correct or actual mass of each load.

System precision is available in the following selectable increments:

STATIC WEIGHING (i.e. Tramanco weighbridges):

- a) +/- 1.0 kg, or
- b) +/- 10.0 kg

ON-BOARD STATIC WEIGHING (i.e. installed on transport vehicles):

- (i) +/- 10.0 kg, or
- (ii) +/- 20.0 kg, or
- (iii) +/- 50.0 kg, or
- (iv) +/- 100.0 kg

ON-BOARD DYNAMIC WEIGHING (i.e. installed on transport vehicles):

- (i) +/- 20.0 kg, or
- (ii) +/- 50.0 kg, or
- (iii) +/- 100.0 kg

The values are interchangeable in either kilograms or pounds weight with the calibration software automatically allowing for the conversion.

Please refer to the appropriate Owner's or Operator's Manual for further details on the operation, calibration and maintenance of our **CHEK-WAY®** and **KWIK-CHEK® Australian designed and manufactured Electronic Weighing and Data Logging Systems**.

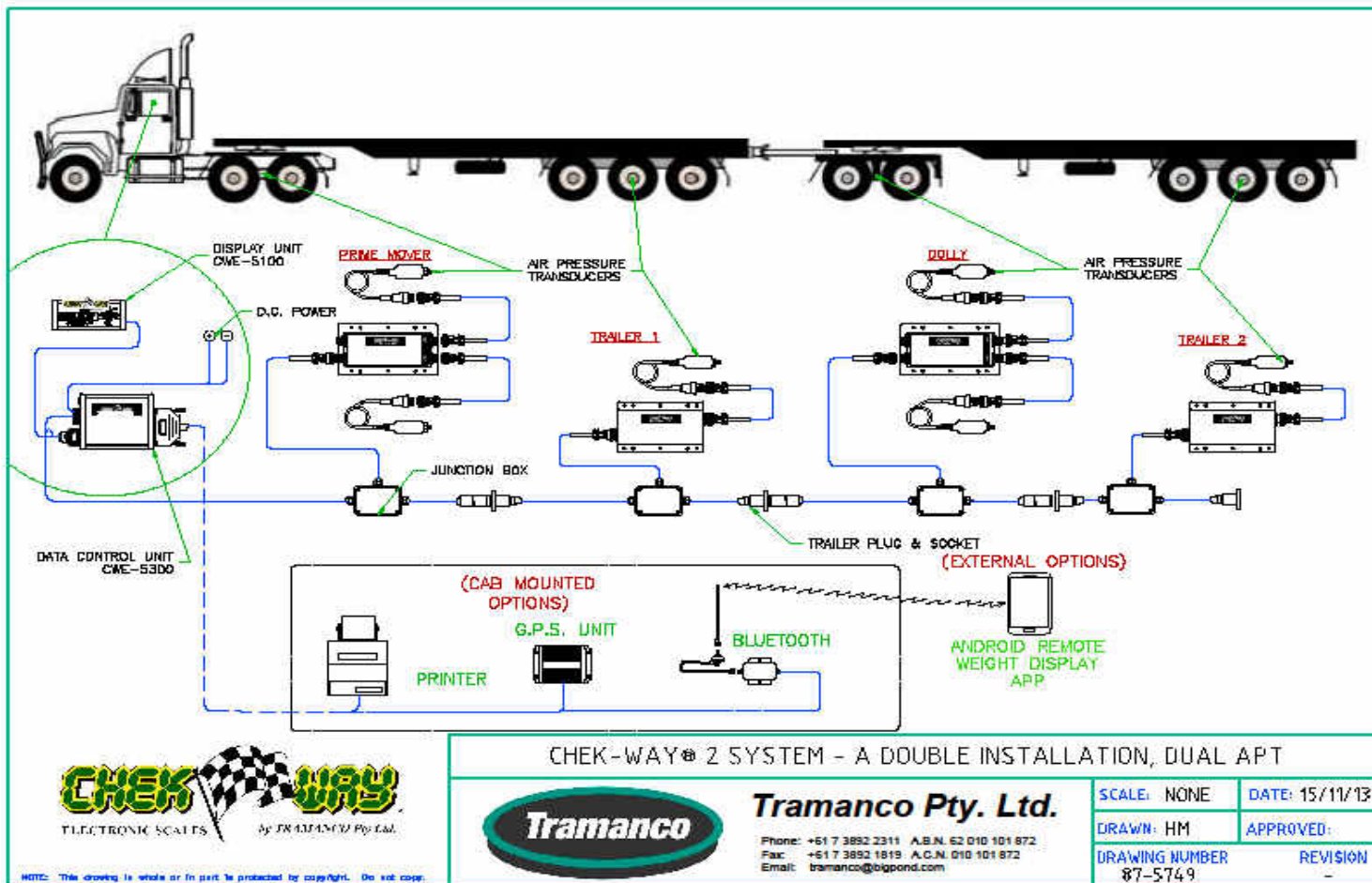
Roger Sack
Managing Director



TRANSPORT SOLUTIONS FOR TODAY AND TOMORROW

Shipping: 21 Shoebury Street, Rocklea, Qld 4106
Postal: P.O. Box 193, Indooroopilly, Qld 4068
Brisbane - Australia

TYPICAL A- DOUBLE with Options



NOTE: This drawing is whole or in part is protected by copyright. Do not copy.



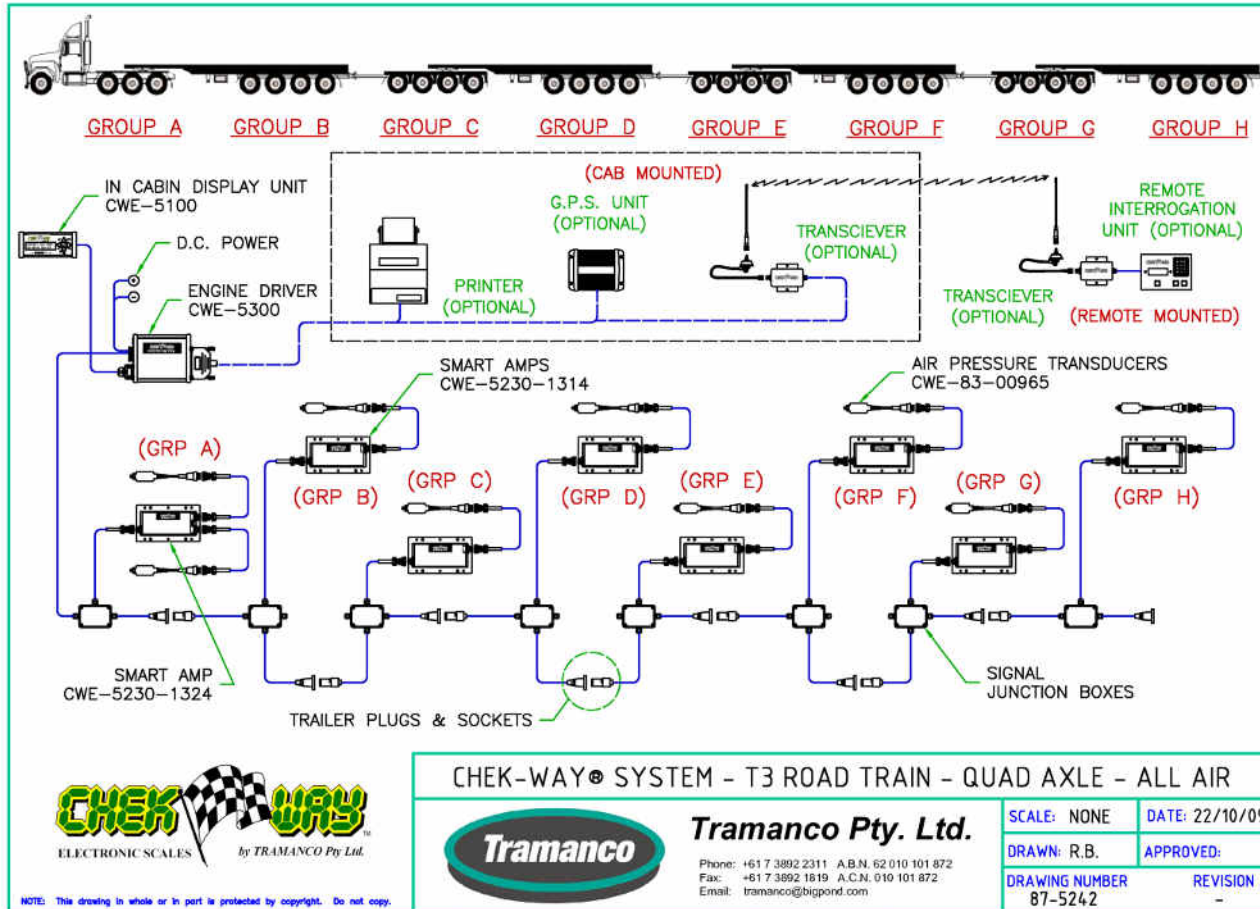
Tramanco Pty. Ltd.

Phone: +61 7 3852 2311 A.B.N. 62 010 101 872
 Fax: +61 7 3852 1819 A.C.N. 010 101 872
 Email: tramanco@bigpond.com

SCALE: NONE	DATE: 15/11/13
DRAWN: HM	APPROVED:
DRAWING NUMBER 87-5749	REVISION -



CHEK-WAY® CWE-5000 Series



CHEK-WAY® CWE-5000 Series Display

- Typical B-Double installation 3 channels
 - Dual line back-lit LCD display for day/night
 - Allows user input/output of the CHEK-WAY® system
 - Password protected
 - All weights and total on the one screen – no button pushing
 - Nett / Gross weight toggle
 - In-built Data-Log and Print functions



CHEK-WAY® CWE-5000 Series

- ***CWE-5000 Features***

- Anti-Tamper

- Password protection on all programmes and calibration
- Time Date Stamps – plus numeric log of all changes
- Lead Seals on all connectors on Smart Amps
- Warranty stickers on all components

- GPS Transmission

- Send weights and serial numbers of Smart Amp ID to GPS

- Data logging

- Record of weight by driver and/or automatically
- Print function (see sample print-out)
- R.F. and Blue Tooth interfaces

Typical Data String explanations

- The following extracts are strings of Data from an actual B-double Tanker operating in a fleet in Newcastle when it is loaded, unloaded, overloaded and has a trailer disconnected or is not communicating and in that order.
-
- **CWGS,A47321,+23320,B46454,+20720,C46798,+20260,PG,11480,+64300,301120**
15,070505,-32.868833, 151.533910,0118,3294,BA,DDD,081,049,081,049,1007,0152
-
- CWGS,A47321,<11560,B46454,<05760,C46798,<04580,PG,11480,+21900,3011201
5,062517,-32.868566, 151.534576,0007,2045,B0,DDD,154,000,155,000,1007,0152
-
- CWGS,A47321,+23260,B46454,%21340,C46798,+20780,**AG**,11480,+65380,301120
15,082550,-32.528108, 151.043988,0000,2987,5C,DDD,061,059,060,059,1007,0153
-
- CWGS,A47321,+11940,B46454,+06420,C46798,?00000,PG,11480,+18360,3011201
5,110719,-32.860830, 151.537600,0211,2241,0B,DDA,083,000,081,000,1003,0155

Typical Print-out

TEL Resources & Government Logistics
Level 9, 145 Eagle Street
Brisbane QLD 4000

Tel: 67 3295 1888
Fax: 67 3295 1891

PBR: 25 006 592 089

4 x CHANNELS

CHEK-WAY ON-BOARD SCALES *EMPTY*

WEIGHT DOCKET
Meter Identity: 11898
Submat T-06 760113 L-43 12915
Date: 24/10/2015 11:15:02

Channel	Identity	Weight	Mode
A	ID 91232	9569 Kg	Gr
B	ID 91241	7540 Kg	Gr
C	ID 91251	4120 Kg	Gr
D	ID 91265	7623 Kg	Gr
Total		21532 Kg	Gr

Signed: *John Driver*

TEL Resources & Government Logistics
Level 9, 145 Eagle Street
Brisbane QLD 4000

Tel: 67 3295 1888
Fax: 67 3295 1891

PBR: 25 006 592 089

4 x CHANNELS

CHEK-WAY ON-BOARD SCALES

WEIGHT DOCKET
Meter Identity: 11898
Secure: 1985 158115 C-4E 136812
Date: 24/10/2015 11:16:35

Channel	Identity	Weight	Mode
A	ID 91232	9569 Kg	Gr <i>OVER</i>
B	ID 91241	7540 Kg	Gr <i>LOAD</i>
C	ID 91251	4120 Kg	Gr <i>*</i>
D	ID 91265	7623 Kg	Gr
Total	RECD	27852 Kg	Gr

Signed: *Mary Harrison*



Typical B-Double print out with explanations

- ANYWHERE TRANSPORT + *YOUR COMPANY NAME AND OTHER DETAILS, AS REQUESTED*
- 1230 Lysaght Street
- Acacia Ridge QLD 4110
- Telephone: (07) 3075 4281
- Facsimile: (07) 3075 4440
- Email: awt@bigpond.com
- ABN: 01010101010
-
- CHEK-WAY **LOAD** REPORT * *TYPICAL B. TRAIN (3 channels)*
-
- VEHICLE ID 22311 * *Meter, Prime Mover & Both Trailer I.D.*
- A24187 B24198 C24176
- SECURE T-01 100613 C-02 120613 * *SECURITY DATA*
- PRINT DATE 15/06/2013 1654 (time)
-
- | DATE | TIME | CHN | DATA | TYPE | |
|------------|-------|-------|--------|--------------|---|
| ===== | ===== | ===== | ===== | | |
| 15/06/2013 | | 1654 | A G | +22550 | <i>* Date & Time of report for each channel in GROSS mode to show TOTAL LOAD.</i> |
| | | B G | +21400 | CHN WGT | <i>CHN WGT Weight is positive (+) so no tare offsets</i> |
| | | C G | +21550 | CHN WGT | |
| | | ABC | +65500 | TOTAL WEIGHT | |
-
- END: * *END OF DOCKET WITH SPACE FOR A SIGNATURE*
-



CHEK-WAY® CWE-5000 Series

- CWE-5000 Features
 - **INS-COM®**
 - Trials completed in 2006 in conjunction with **TMR** to prove Suspension Functionality and for Monitoring Road Degradation (M.R.D.) reports



CHEK-WAY® CWE-5000 Series

Replay a Day
Replay Activity Log for Rod Hannifey
on 10/09/2008

Ev...	Event Descrip...	Time	Ign	Sp...	Trip Location
🟢	Ignition On	11:03	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
🔴	Ignition Off	11:05	☐	0.00	0.0 Stradbroke Street, FOREST LAKE
🟢	Ignition On	11:12	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
⌚	Timed Update	11:17	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
⌚	Timed Update	11:22	✓	15.00	0.1 Logan Motorway, FOREST LAKE
🔴	Ignition Off	11:23	☐	0.00	0.1 Stradbroke Street, FOREST LAKE
🟢	Ignition On	12:16	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
⌚	Timed Update	12:21	✓	93.00	4.1 Logan Motorway, FOREST LAKE
⌚	Timed Update	12:26	✓	83.00	11.0 Centenary Motorway, RICHMOND
⌚	Timed Update	12:31	✓	93.00	16.6 Ipswich Motorway, ROCKLEA, BRISBANE
⌚	Timed Update	12:36	✓	32.00	20.1 57-70 Grindle Road, ROCKLEA, BRISBANE
🔴	Ignition Off	12:38	☐	0.00	20.5 1.71km / 1.07miles NW of Archer
🟢	Ignition On	12:54	✓	0.00	0.0 1.71km / 1.07miles NW of Archer
🔴	Ignition Off	12:55	☐	0.00	0.0 1.76km / 1.09miles NW of Archer
🟢	Ignition On	14:43	✓	0.00	0.0 1.76km / 1.09miles NW of Archer
🔴	Ignition Off	14:44	☐	0.00	0.1 57-70 Grindle Road, ROCKLEA, BRISBANE
🟢	Ignition On	14:51	✓	0.00	0.0 57-70 Grindle Road, ROCKLEA, BRISBANE
⌚	Timed Update	14:56	✓	0.00	1.8 Bening Street, ROCKLEA, BRISBANE
🚨	Serial 0 (RS232)	15:00	✓	82.00	2.9 Ipswich Motorway, OXLEY, BRISBANE
⌚	Timed Update	15:05	✓	82.00	8.5 Centenary Motorway, RICHMOND
⌚	Timed Update	15:10	✓	101.00	15.6 Logan Motorway, FOREST LAKE
⌚	Timed Update	15:15	✓	62.00	18.5 Stradbroke Street, HEATHWOOD
⌚	Timed Update	15:20	✓	0.00	19.0 Stradbroke Street, FOREST LAKE
🔴	Ignition Off	15:21	☐	0.00	19.0 Stradbroke Street, FOREST LAKE
🟢	Ignition On	16:06	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
🔴	Ignition Off	16:07	☐	0.00	0.0 Stradbroke Street, FOREST LAKE
🟢	Ignition On	16:53	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
⌚	Timed Update	16:58	✓	39.00	1.0 Stradbroke Street, HEATHWOOD
⌚	Timed Update	17:03	✓	97.00	6.8 Logan Motorway, CAROLE PARK
⌚	Timed Update	17:08	✓	27.00	10.5 Ipswich Motorway, GAILES, BRISBANE
🚨	Serial 0 (RS232)	17:09	✓	84.00	12.2 Ipswich Motorway, GOODNA, BRISBANE
⌚	Timed Update	17:14	✓	52.00	16.3 Ipswich Motorway, RIVERVIEW, BRISBANE
🚨	Serial 0 (RS232)	17:18	✓	101.00	19.2 Werrego Highway, DINMORE, BRISBANE
⌚	Timed Update	17:23	✓	86.00	27.3 Werrego Highway, NORTH IPSWICH
⌚	Timed Update	17:28	✓	84.00	34.3 Werrego Highway, WALLOON, BRISBANE
⌚	Timed Update	17:32	✓	100.00	42.1 Werrego Highway, MARLBOROUGH

View Auxiliary Data

ASCII	Hex
A32598 +18156 B32787 +15823 C32609	41 33 32 35 39 38 20
+13794 IG 210117 1A020501 6A DDD	2B
	31 38 31 35 36 20 42 33
	32 37 38 37 20 2B 31
	35
	38 32 33 20 43 33 32 36
	30 39 20 2B 31 33 37
	39
	34 20 49 47 20 32 31 30
	31 31 37 20 31 41 30 32
	30 35 30 31 20 36 41 20

Monitoring Road Conditions – 1.7g Bump at 82Kph

CHEK-WAY® CWE-5000 Series

The screenshot displays the 'Replay a Day' window for 'Rod Hannifey' on 10/09/2008. The event log table is as follows:

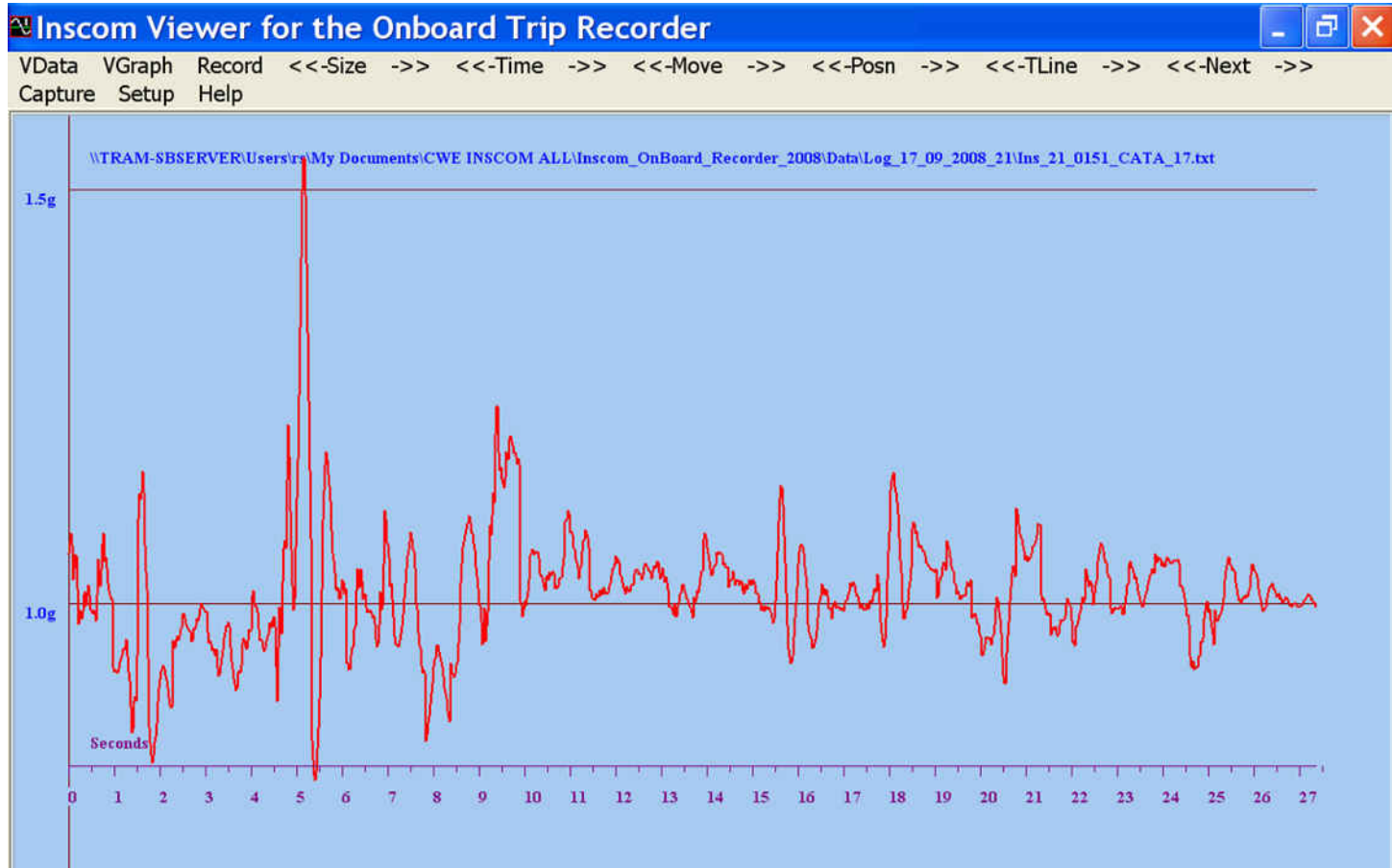
Ev...	Event Descrip...	Time	Ign	Sp...	Trip Location
Ignition On		11:03	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Ignition Off		11:05	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Ignition On		11:12	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Timed Update		11:17	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Timed Update		11:22	✓	15.00	0.1 Logan Motorway, FOREST LAKE
Ignition Off		11:23	✓	0.00	0.1 Stradbroke Street, FOREST LAKE
Ignition On		12:16	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Timed Update		12:21	✓	93.00	4.1 Logan Motorway, FOREST LAKE
Timed Update		12:26	✓	83.00	11.0 Centenary Motorway, RICHLAND
Timed Update		12:31	✓	93.00	16.6 Ipswich Motorway, ROCKLEA, BRISBANE
Timed Update		12:36	✓	32.00	20.1 57-70 Grindle Road, ROCKLEA, BRISBANE
Ignition Off		12:38	✓	0.00	20.5 1.71km / 1.07miles NW of Archerfield, ROCKLEA, BRISBANE
Ignition On		12:54	✓	0.00	0.0 1.71km / 1.07miles NW of Archerfield, ROCKLEA, BRISBANE
Ignition Off		12:55	✓	0.00	0.0 1.76km / 1.09miles NW of Archerfield, ROCKLEA, BRISBANE
Ignition On		14:43	✓	0.00	0.0 1.76km / 1.09miles NW of Archerfield, ROCKLEA, BRISBANE
Ignition Off		14:44	✓	0.00	0.1 57-70 Grindle Road, ROCKLEA, BRISBANE
Ignition On		14:51	✓	0.00	0.0 57-70 Grindle Road, ROCKLEA, BRISBANE
Timed Update		14:56	✓	0.00	1.8 Banting Street, ROCKLEA, BRISBANE
Serial 0 (RS232)		15:00	✓	82.00	2.9 Ipswich Motorway, OXLEY, BRISBANE
Timed Update		15:05	✓	82.00	8.5 Centenary Motorway, RICHLAND
Timed Update		15:10	✓	101.00	15.6 Logan Motorway, FOREST LAKE
Timed Update		15:15	✓	62.00	18.5 Stradbroke Street, HEATHWOOD
Timed Update		15:20	✓	0.00	19.0 Stradbroke Street, FOREST LAKE
Ignition Off		15:21	✓	0.00	19.0 Stradbroke Street, FOREST LAKE
Ignition On		16:06	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Ignition Off		16:07	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Ignition On		16:53	✓	0.00	0.0 Stradbroke Street, FOREST LAKE
Timed Update		16:58	✓	39.00	1.0 Stradbroke Street, HEATHWOOD
Timed Update		17:03	✓	97.00	6.8 Logan Motorway, CAROLE PARK
Timed Update		17:08	✓	27.00	10.5 Ipswich Motorway, GAILES, BRISBANE
Serial 0 (RS232)		17:09	✓	84.00	12.2 Ipswich Motorway, GOODNA, BRISBANE
Timed Update		17:14	✓	52.00	16.3 Ipswich Motorway, RIVERVIEW, BRISBANE
Serial 0 (RS232)		17:18	✓	101.00	19.2 Warrego Highway, DINMORE, BRISBANE
Timed Update		17:23	✓	86.00	27.3 Warrego Highway, NORTH IPSWICH, BRISBANE
Timed Update		17:28	✓	84.00	34.3 Warrego Highway, WALLON, BRISBANE
Timed Update		17:32	✓	100.00	42.1 Warrego Highway, MADBURY, BRISBANE

The 'View Auxiliary Data' window shows the following data:

ASCII	Hex
A32598 +18156 B32787 +15823 C32609	41 33 32 35 39 38 20
+13794 IG 210117 1A020501 6A DDD	2B
	31 38 31 35 36 20 42 33
	32 37 38 37 20 2B 31
	35
	38 32 33 20 43 33 32 36
	30 39 20 2B 31 33 37
	39
	34 20 49 47 20 32 31 30
	31 31 37 20 31 41 30 32
	30 35 30 31 20 36 41 20

Expanded view – dynamic weights and location

CHEK-WAY® CWE-5000 Series



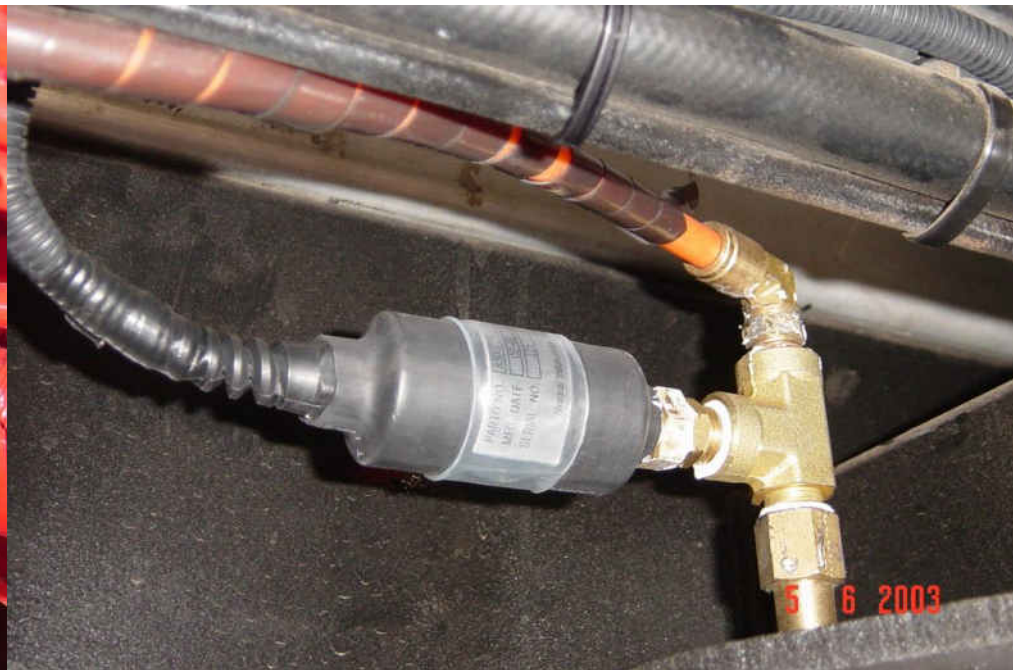
Impulsive loads generated by the 1.7g bump

Applications

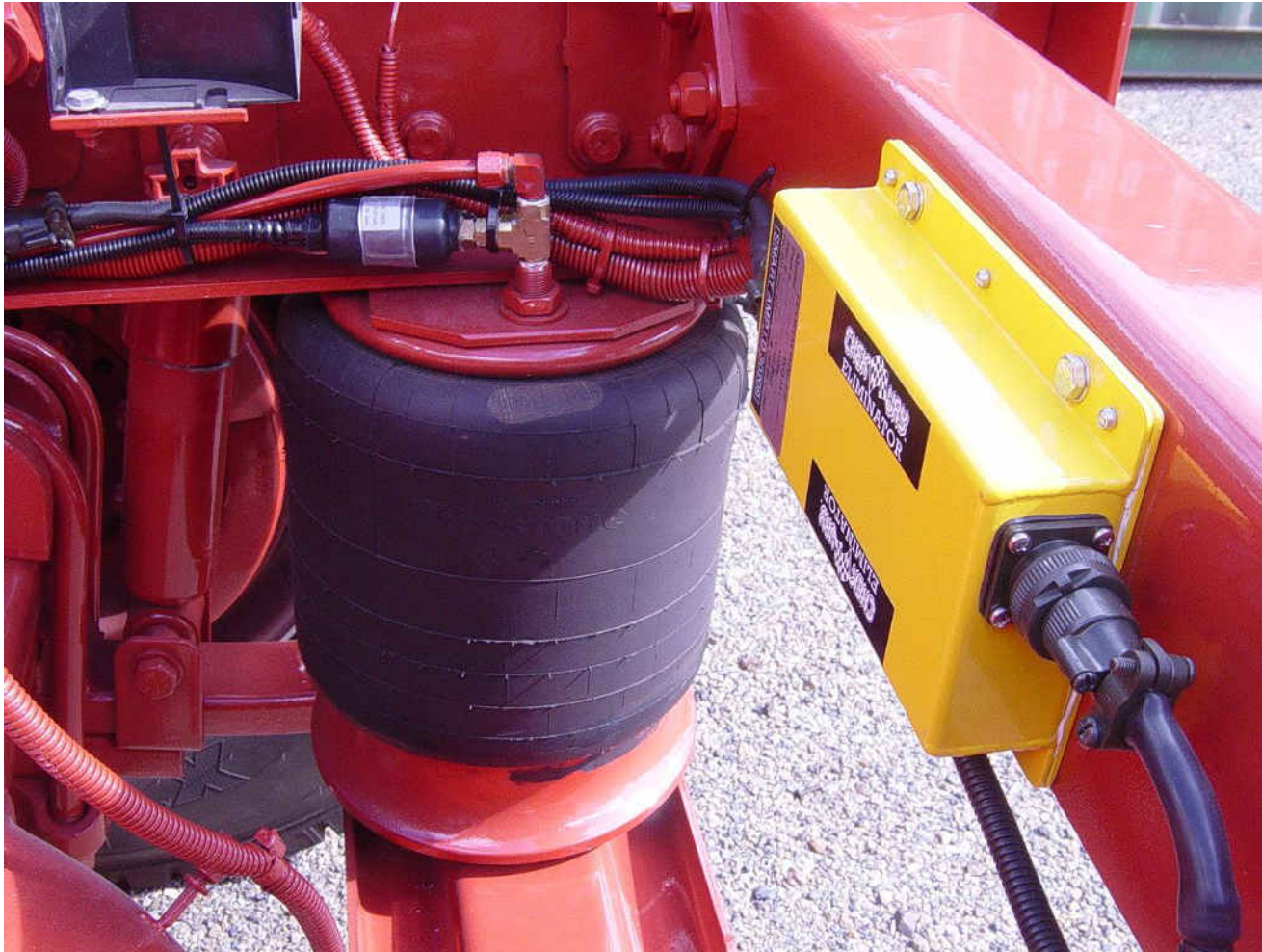


Applications

- Kenworth 8 air bag suspension with APT's – one each load sharing side



Applications



Applications



Research and Development



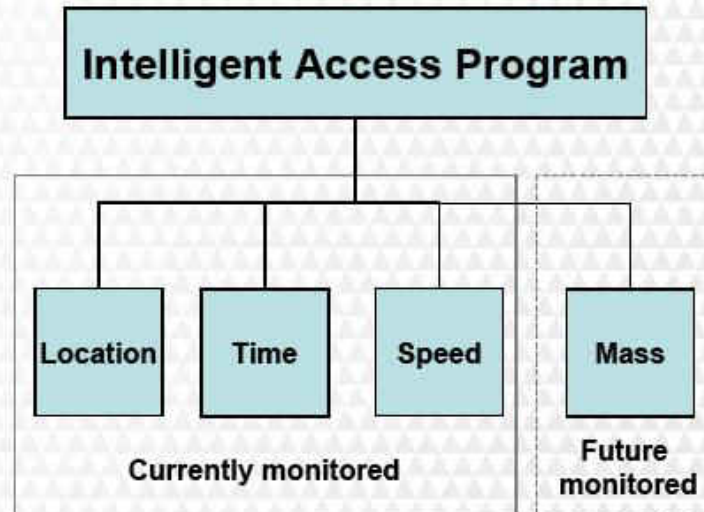
CHEK-WAY® in the Media



Transport Reform

Background

- ▲ The IAP is a voluntary program which provides heavy vehicles with access, or improved access, to the Australian road network in return for monitoring of compliance with access conditions.



IAP the road forward!

3

IAP
Intelligent Access Program

Transport Reform

Truck operators to pay for road repairs: ALGA

By Staff Writer

Councils across Australia have called for major road reform to ensure that local roads keep up with the demands of freight transport.

Speaking at the Australian Roads Summit 09 in Brisbane, the Australian Local Government Association (ALGA) president, Cr Geoff Lake, called on the Commonwealth and States to begin trialing incremental pricing.

“Local government supports the need for road funding reform and that is why we support the introduction of incremental pricing,” Cr Lake said.

“The Commonwealth and the states should now get on with finalizing the concept and commencing trials.”

Developed by the independent National Transport Commission, incremental pricing would enable truck operators to buy additional weight on a vehicle above the legal limit.

The Council of Australian Governments (COAG) agreed to pilot the initiative two years ago, but trials are yet to begin.

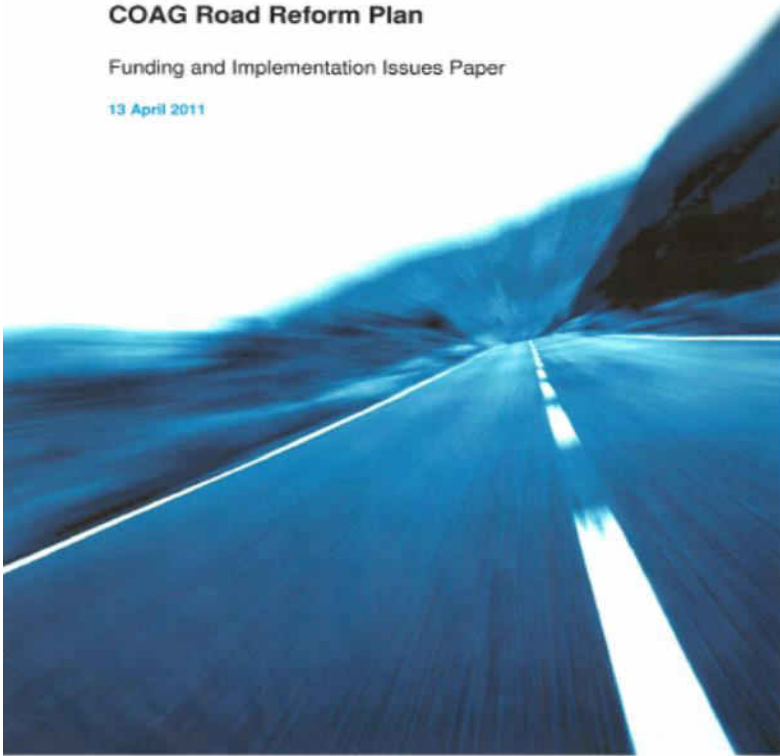
Transport Reform

CRRP

COAG Road Reform Plan

Funding and Implementation Issues Paper

13 April 2011



This document is available
now for public comment
DO NOT DELAY.

A-Double Project

- Pilot study by TMR, TransTech, Tramanco and South East Queensland Hauliers (SEQH) for new A-Double combinations
- CHEK-WAY® electronic scales used to provide weight data to TransTech GPS
- Woods Transport recently adopted CHEK-WAY® electronic scales for it's A-Double combinations also.

A-Double Project



20 September 2010

Mr Shaun Owen
Transtech Driven Partnership
993 Toorak Road
CAMBERWELL VIC 3124

Dear Mr Owen

Approved IAP-SP and QLD Interim OBM Supplier

The Department of Transport and Main Roads (the department) would like to advise that the Transtech Driven Partnership (TTD) (ABN 38 394 577 968) has been approved as a Queensland Interim On-Board Mass (OBM) supplier. This approval is granted as TTD has demonstrated that the combination of its certified IAP system and the Tramanco *CHEK-WAY-5000* OBM scales meet the requirements specified in the *Queensland Interim OBM Implementation Requirements*.

TTD is responsible for ensuring that the OBM system continues to meet the requirements outlined in the *Queensland Interim OBM Implementation Requirements*. The department reserves the right to audit the approved OBM system both on an ad hoc basis and periodically. Should the system no longer meet the requirements, the department may withdraw this approval in writing. Prior to this occurring, TTD will be given the opportunity to rectify the issue(s) and the results will be provided to the department in writing. Additionally, should an OBM system in a particular vehicle fail to meet the requirements, it will no longer be covered by this approval.

Should there be a change to either the certified IAP system or the OBM system it is required that the department be notified in advance. Depending on the level of change the department may require additional testing or information to retain approval of the system.

Should TTD wish to discontinue provision of approved interim OBM services, TTD is to give 30 days notice to the department in writing.

When a Transport Certification Australia (TCA) certified OBM becomes available as part of IAP, it will be a requirement that this replaces the interim OBM solution. When this occurs there will be consultation to identify suitable timeframes around requirements to upgrade to the TCA certified OBM.

Interim On-Board Mass (OBM) supplier. This approval is granted as TTD has demonstrated that the combination of its certified IAP system and the Tramanco *CHEK-WAY-5000* OBM scales meet the requirements specified in the *Queensland Interim OBM Implementation Requirements*.

Department of Transport and Main Roads
Road Safety and System Managers
Road System Operations
Spring Hill Office Complex
Spring Hill, 4001
GPO Box 1412 Brisbane QLD 4001

Our ref: 520756
Your ref:
Enquiries: Graham Taylor
Telephone: +61 7 3634 2172
Facsimile: +61 7 3201 2262
Website: www.tlv.qld.gov.au
Email: graham.taylor@trm.qld.gov.au

A-Double Project



A-Double Project

- SEQH A-Double
 - Mack Prime Mover
 - Haulmark Trailers and Dolly
 - TransTech Driven GPS
 - Tramanco **CHEK-WAY® Electronic Scales**
- Combination load
 - Maximum 4 x 20ft containers
 - Maximum 2 x 40ft containers
 - Any combination of above for 79.0 tonne up to 85.0 tonne with H.M.L.

A-Double Project

On-board mass (OBM) equipment checklist

1 Axle group readings

	OBM SYSTEM (KG)	WEIGH BRIDGE (KG)	ACTUAL VARIATION (KG)	VARIATION PERCENTAGE (TOLERANCE IS < 1.5%)	REASON FOR VARIATION (IF APPLICABLE)	ACTION TAKEN TO RECTIFY IF VAIATION IS < 1.5% (EG RECALIBRATION OR REPAIR)	OBM SYSTEM READING AFTER ACTION (KG)
Steer axle		5540					
Channel A	21700	16200	-100	-0.46%			
Channel B	20470	20460	10	+0.05%			
Channel C	15470	15460	10	+0.06%			
Channel D	20210	20160	50	0.25%			
Total Mass (TCM)	77850	77830	-30	-0.04%			

Name: R. Kuhlmann

Signature: 

Date: 25/10/10

A-Double Project



A-Double Project

- Woods Transport A-Double
 - Kenworth Prime Mover
 - O’Phee Trailers and Dolly
 - TransTech Driven GPS
 - Tramanco **CHEK-WAY® Electronic Scales**
- Combination load
 - Maximum 4 x 20ft containers
 - Maximum 2 x 40 ft. containers
 - Any combination of above

A-Double Project

On-board mass (OBM) equipment checklist

1 Axle group readings

	OBM SYSTEM (KG)	WEIGH BRIDGE (KG)	ACTUAL VARIATION (KG)	VARIATION PERCENTAGE (TOLERANCE IS < 1.5%)	REASON FOR VARIATION (IF APPLICABLE)	ACTION TAKEN TO RECTIFY IF VARIATION IS < 1.5% (EG RECALIBRATION OR REPAIR)	OBM SYSTEM READING AFTER ACTION (KG)
Steer axle		6100					
Channel A	19400	13300	0	0%			
Channel B	18260	18260	0	0%			
Channel C	13070	13060	+10	0.08%			
Channel D	18420	18420	0	0%			
Total Mass (TCM)	69150	69140	+10	0.01%			

Name: R. KUHMORGEN

Signature: 

Date: 11/11/10

Questions

