Electronic Work Diary for Heavy Vehicle Fatigue monitoring in Australia

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Agenda

1. Why an electronic work diary
2. Approach / project schedule
3. Requirements
4. PWD
5. Considerations
6. Next steps
A paper work diary:

<table>
<thead>
<tr>
<th>DRIVER</th>
<th>OPERATOR</th>
<th>AUTHORITY</th>
<th>COURTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS SINGLE USE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS NOT TRUSTWORTHY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN CONFLICT WITH ELECTRONIC DATA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS EVIDENTIARY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS PORTABLE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS STANDARDISED</td>
<td></td>
<td></td>
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</tbody>
</table>
PAPER WORK DIARY PROCESS

READABLE
WRITABLE
TECH-FREE
UNBREAKABLE
INTEROPERABLE
RELIABLE

1. Approve paper work diary
2. Apply for paper work diary
3. Issue paper work diary
4. Fill records in paper work diary

5. Driver keeps one copy
6. Provide a copy to Record Keeper
7. Provide a copy to Enforcement

DESIGN
PURCHASE
DELIVER
RETAIL
REPLACE
IDENTIFICATION
AUTHENTICATION

LOW INTEGRITY
## PAPER WORK DIARY vs ELECTRONIC WORK DIARY

<table>
<thead>
<tr>
<th>Feature</th>
<th>PAPER WORK DIARY</th>
<th>ELECTRONIC WORK DIARY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allocation</td>
<td>Allocation</td>
<td></td>
</tr>
<tr>
<td>Authentication (signature)</td>
<td>Authentication (signature)</td>
<td>Authentication (electronic)</td>
</tr>
<tr>
<td>Records – no deletion</td>
<td>Records – no deletion</td>
<td>Records – security</td>
</tr>
<tr>
<td>Records - difficult to change</td>
<td>Records - difficult to change</td>
<td>System - Tamper evident</td>
</tr>
<tr>
<td>Records duplication (paper)</td>
<td>Records duplication (paper)</td>
<td>Records duplication (electronic)</td>
</tr>
<tr>
<td>Always operational</td>
<td>Always operational</td>
<td>EWD is ‘looked after’</td>
</tr>
<tr>
<td>Interoperable – same for all users</td>
<td>Interoperable – same for all users</td>
<td>Interoperable - storage and format</td>
</tr>
<tr>
<td>Portable diary</td>
<td>Portable diary</td>
<td>Portable records</td>
</tr>
</tbody>
</table>
PWD vs EWD?

Equivalent

• Possible?
• What would this achieve?
• Each has strengths / weakness

Not Equivalent

• Recording of time
• Recording of location
Different Specifications

EWD
work and rest periods

IAP
access compliance
APPLICATIONS

- Access
- Fatigue
- Speed
- Mass

Core platform
Philosophy

- Performance based requirements (output driven)
- Prescribed only where necessary
- Available for industry
PRESCRIPTION?

MULTIPLE STATES
MULTIPLE AGENCIES
MULTIPLE OFFICERS
MULTIPLE OPERATORS
MULTIPLE VEHICLES
EWD

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PAPER WORK DIARY

COMMERCIAL ELECTRONIC SYSTEMS

TRANSITIONAL EWD

EWD

PILOT

REFINE
1. APPROVAL FROM AUSTROADS
2. CONSULTATION – IN EACH PARTICIPATING STATE
3. FINALISATION OF SPECIFICATION
Questions and discussion

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