Field Operations Management (FOM)

June 12, 2018
• Web based program with mobile application
  – Role based access
  – Allows for custom user settings

• Provides functionality for managing information related to the operation, maintenance, and repair of traffic sites.
  – Report and track issues through tickets and tasks
  – Provide and track inventories
  – Store specifications, characteristics and products such as serial number, model number, and purchase information
  – Reporting feature
  – Integration with other TDS Modules
Deadline Management

QA# 9543 Site: 840 / 96 (CAVC)
Assigned to: josharp
Deadline: 06/15/2018

Review# 9544 Site: 840 / 96 (CAVC)
Assigned to: josharp
Deadline: 06/15/2018

Task# 9706 Ticket# 9686 Site: 810 / 710 (CAVC)
Assigned to: matthochen
Description:
- Category: Cellular Modem
- Description: Cycle Modem Power
- Details: Remove power from the modem for at least 5 seconds and then restore the power. Reset modem - IP was changed to private and Todd cannot access counter.
Number of Attachments: 0
Deadline: 04/27/2018

*Is Past Due
Task Status: Work Assigned
### My Work

**Task# 10263 Ticket# 10185 Site: 393 / 4541 (ATR)**

- **Assigned to:** josharp
- **Description:**
  - Category: Construction
  - Details: ECMS# 31180
- **Number of Attachments:** 0
- **Deadline:** 10/31/2018
- **Task Status:** Work Assigned

### QA# 9543 Site: 840 / 96 (CAVC)

- **Assigned to:** josharp
- **Deadline:** 06/15/2018

### Review# 9544 Site: 840 / 96 (CAVC)

- **Assigned to:** josharp
- **Deadline:** 06/15/2018
<table>
<thead>
<tr>
<th>#</th>
<th>Ticket#</th>
<th>Site:</th>
<th>(WIM)</th>
<th>Creator</th>
<th>Description of the Problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10006</td>
<td>710 / 879</td>
<td>(WIM)</td>
<td>brock</td>
<td>Unable to poll data for last several days and unable to connect to the modem.</td>
</tr>
<tr>
<td>0</td>
<td>10183</td>
<td>505 / 2618</td>
<td>(WIM)</td>
<td>andonelli</td>
<td>Kister needs to be replaced EB and four loops sealed WB. IRD/Bruce &amp; Merrilee to repair between 7/2/18 and 9/30/18</td>
</tr>
<tr>
<td>1</td>
<td>10185</td>
<td>393 / 4541</td>
<td>(ATR)</td>
<td>trotlet</td>
<td>Noticed no data in EBD lane. Set counter up for Volume only using loops 1,3,5,7. When trying to restart, i was getting an error message. Tried “Cold Restart” and the counter was still getting hung up. Please check on loop 2 and if loop is good, replace counter. Site within 200 miles. Thanks, Todd.</td>
</tr>
<tr>
<td>1</td>
<td>10247</td>
<td>206 / 1663</td>
<td>(ATR)</td>
<td>trottlet</td>
<td>RNC. Since cabinet was moved on 5/30, i’m unable to connect to counter. Checked with Matt yesterday and made sure we could connect and we were able to. Unfortunately we cannot connect this morning. Site within 200 miles. Thanks, Todd.</td>
</tr>
<tr>
<td>1</td>
<td>3766</td>
<td>801 / 1692</td>
<td>(CAVC)</td>
<td>trotlet</td>
<td>Plezo in Southbound lanes 3 &amp; 4 appear bad. I believe Dave Madden took a reading and found the same in the recent past. As of 12/2/2016 the site is now only collecting speed data.</td>
</tr>
<tr>
<td>0</td>
<td>8287</td>
<td>387 / 4252</td>
<td>(CAVC)</td>
<td>trotlet</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#</th>
<th>QA#</th>
<th>Site:</th>
<th>(CAVC)</th>
<th>Assigned to</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8287</td>
<td>387 / 4252</td>
<td>(CAVC)</td>
<td>trotlet</td>
<td>02/23/2018</td>
</tr>
</tbody>
</table>

*Is Past Due*
FOM Menu – Ticket Priorities

- Immediate Response
- Safety Related Issues

- 48 Hour Response Time
- After 3 Days of Ring No Connect (RNC)
- High Level Data Issues

- 72 Hour Response Time
- Low Level Data Issues

- Construction at Site
- Damaged Equipment
Ticket# 47 Site: 1 / 803 (ATR)
Creator: brock

Ticket# 56 Site: 1 / 803 (ATR)
Creator: josharp

Ticket# 54 Site: 101 / 208 (ATR)
Creator: josharp

Ticket# 51 Site: 101 / 208 (ATR)
Creator: josharp
### Task #9706 Ticket #9686 Site: 810 / 710 (CAVC)

**Assigned to:** matthocken  
**Description:** Category: Cellular Modem  
*Details:* Remove power from the modem for at least 5 seconds and then restore the power. Reset modem - IP was changed to private and Todd cannot access counter.  
**Number of Attachments:** 0  
**Deadline:** 04/27/2018  
*Is Past Due*  
**Task Status:** Work Assigned

### Task #9724 Ticket #9723 Site: 391 / 1258 (ATR)

**Assigned to:** matthocken  
**Description:** Category: RNC  
*Details:* RNC  
**Number of Attachments:** 0  
**Deadline:** 04/27/2018  
*Is Past Due*  
**Task Status:** Work Assigned

### Task #3768 Ticket #3766 Site: 801 / 1692 (CAVC)

**Assigned to:** joskeller  
**Description:** Category: Construction  
*Details:* Installation included as part of ECMS 90204 with completion date of 6/20/18  
**Number of Attachments:** 0  
**Deadline:** 06/20/2018  
**Task Status:** Work Assigned
FOM Ticket/Task Process

Site Issue Develops

Traffic Analyst Creates Ticket

Field Supervisor Assigns Task(s)

Field Tech Troubleshoots Site

Issue Resolved or Task Reassigned

Task is Closed by Field Tech

Field Supervisor Evaluates Resolution

Field Supervisor Completes Final Task Close Out

Ticket is Closed
FOM Menu - Reviews

Site Review

Review# 1650 Site: 393 / 4541 (ATR)
Assigned to:

Review# 9544 Site: 840 / 96 (CAVC)
Assigned to: josharp
Deadline: 06/15/2018

Review# 1064 Site: 803 / 1 (CAVC)
Assigned to: matthochen

Review# 1066 Site: 1 / 1945 (CAVC)
Assigned to: peellis

Review# 1068 Site: 207 / 1983 (ATR)
Assigned to: peellis

Review# 1105 Site: 385 / 4510 (CAVC)
Assigned to: peellis
**FOM Review Process**

1. **Winter Work**
2. **1 or 3 Year Cycle and New Installs**
   - **Field Supervisor Schedules and Assigns**
   - **Field Tech Performs Review and Inventory**
3. **Field Supervisor Analyzes**
4. **Results Entered into FOM**
5. **Field Supervisor Reassigns or Closes**

---

**Pennsylvania Department of Transportation**
QA

QA# 9543 Site: 840 / 96 (CAVC)
Assigned to: josharp
Deadline: 06/15/2018

QA# 43 Site: 210 / 1629 (ATR)
Assigned to: joskeller
Deadline: 07/01/2018

QA# 8287 Site: 387 / 4252 (CAVC)
Assigned to: trottet
Deadline: 02/23/2018
*Is Past Due

QA# 9365 Site: 205 / 4760 (CAVC)
Assigned to: davimadden
Deadline: 04/06/2018
*Is Past Due
### FOM Menu – QAs

**QA# 9543 Site: 840 / 96 (CAVC)**

**Deadline:** 06/15/2018  
**Date Collected:** 04/13/2018  

#### Counts:

<table>
<thead>
<tr>
<th>Hour</th>
<th>Passenger Cars</th>
<th>Motorcycle</th>
<th>Single Rear Tires</th>
<th>Dual Rear Tires</th>
<th>3 Axes</th>
<th>4 Axes</th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>Class 1</td>
<td>Class 2</td>
<td>Class 3</td>
<td>Class 4</td>
<td>Class 5</td>
<td>Class 6</td>
</tr>
<tr>
<td></td>
<td>65</td>
<td>6</td>
<td>30</td>
<td>0</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>64</td>
<td>3</td>
<td>37</td>
<td>0</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>79</td>
<td>5</td>
<td>36</td>
<td>0</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>208</td>
<td>14</td>
<td>103</td>
<td>0</td>
<td>14</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hour</th>
<th>Passenger Cars</th>
<th>Motorcycle</th>
<th>Pickup</th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>65</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>10</td>
<td>64</td>
<td>3</td>
<td>37</td>
</tr>
<tr>
<td>11</td>
<td>79</td>
<td>5</td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td>208</td>
<td>14</td>
<td>103</td>
</tr>
</tbody>
</table>

**Import from spreadsheet:**  
Choose File: No file chosen  
Upload: Warning: this will over-write any data.

**QA Status:** Work Assigned  
Step User Login: joshrpa
FOM QA Process

Winter Work

1 or 3 Year Cycle and New Installs

Field Supervisor Schedules and Assigns

Field Tech Performs 3-4 Hour Manual Count

Results Entered into FOM

Traffic Analyst Reviews Data

Field Supervisor Analyzes and Reviews Comments

Field Supervisor Reassigns or Closes QA
Site List
- Pulls read-only information from TMS information
- Use this page to
  - Create a new Ticket
  - Schedule a site review
  - Schedule a QA
  - View or Modify some site information
- Search by Various items
TMS Site No.: 101

County: 02 ALLEGHENY
Segment: 0794 / 0795
Direction: EW
Lanes: 4
Location: 0.7 mi W of PA 791 (Monroeville)
Lat/Long: 40.44354373123350, -79.84006769869880
Phone Number: 717-512-9266
IP Address: 010.013.002.181
Power Type: AC
Review Frequency: 1 Year

Site 208 / 101 (ATR)

Route: 0376
Offset: 1442 / 1297
District: 11
Open Tasks: 0
Open Tickets: 0
Tickets Total: 4

Actions:
- 0 Attachments
- View Tickets
- View Site Reviews
- View Site QAs
- Go To Inventory
- Select this Site
## FOM Menu – Daily Product Requisition

### Daily Product Requisition

Pull or return a product.

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity on-hand</th>
<th>Quantity pulled</th>
<th>Quantity returned</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M Gaffer's Tape 2&quot; x 160'</td>
<td>42</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>AA Battery</td>
<td>65</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Adjustable Band (6&quot;)</td>
<td>14</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Air Filter (Cabinet Door)</td>
<td>407</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Battery 12v</td>
<td>36</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Blade (Utility Knife)</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cascade Modem</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Chain</td>
<td>13</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Craftsman Multimeter</td>
<td>24</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>DC/AC Power Inverter</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
## Master Inventory

Edit an inventory product or add a new product to the inventory

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity on-hand</th>
<th>Quantity Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M Gaffer's Tape 2'' x 164'</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3M Gaffer's Tape 4'' x 165'</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3M Splice Kit (Waterproof)</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>4-Tool Cordless Combo Kit</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Adjustable Band (2'')</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Adjustable Band (3'')</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Adjustable Band (4'')</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>Adjustable Band (6'')</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Adjustable Band (8'')</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>Air Compressor</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
### Task Management

**Task Category:** Cellular Modem

**Task Description:** Check Antenna

Verify that the cellular antenna is properly connected to the modem.

<table>
<thead>
<tr>
<th>Resolution Name</th>
<th>Requires Comment?</th>
<th>Next Step?</th>
<th>Default?</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Antenna is connected properly</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Antenna is missing</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Antenna cable is missing or damaged</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Reconnected an unconnected antenna</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Unable to perform test</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Work Assigned</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Replaced cable from modem to counter</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Replace antenna</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Add Resolution
## Personnel Management

<table>
<thead>
<tr>
<th>Type</th>
<th>Login/Role Name</th>
<th>Email</th>
<th>Last Login</th>
<th>Authentication Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Traffic Analysts</td>
<td></td>
<td>12/2/2014</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>Inventory Control</td>
<td></td>
<td>12/2/2014</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>Field Technicians</td>
<td></td>
<td>12/2/2014</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>IRD</td>
<td></td>
<td>12/2/2014</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>Phone Company</td>
<td></td>
<td>12/2/2014 2014-04-25T07:53:54</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>Electric Company</td>
<td></td>
<td>12/2/2014 2014-09-18T08:10:47</td>
<td>Local</td>
</tr>
<tr>
<td>![user]</td>
<td>andoneill</td>
<td><a href="mailto:andoneill@pa.gov">andoneill@pa.gov</a></td>
<td>12/2/2014 2018-05-10T09:21:24</td>
<td>Local</td>
</tr>
<tr>
<td>![user]</td>
<td>abahoric</td>
<td><a href="mailto:abahoric@pa.gov">abahoric@pa.gov</a></td>
<td>12/2/2014 2018-05-08T07:24:12</td>
<td>Local</td>
</tr>
<tr>
<td>![user]</td>
<td>josharp</td>
<td><a href="mailto:josharp@pa.gov">josharp@pa.gov</a></td>
<td>12/2/2014 2018-05-25T14:34:24</td>
<td>Local</td>
</tr>
<tr>
<td>![user]</td>
<td>jfreeland</td>
<td><a href="mailto:jfreeland@pa.gov">jfreeland@pa.gov</a></td>
<td>12/2/2014 2018-04-17T14:10:24</td>
<td>Local</td>
</tr>
<tr>
<td>![user]</td>
<td>joskeller</td>
<td><a href="mailto:joskeller@pa.gov">joskeller@pa.gov</a></td>
<td>12/2/2014 2018-05-24T11:59:39</td>
<td>Local</td>
</tr>
</tbody>
</table>
FOM Menu – Product Management

Product Management
Home ➔ Non Serializable
Serializable

+ Add New Product type
Banding Tools and Supplies
Battery
Cable
Cartridge
Chemical
Clothing
Connector
Electronic Module
Fastener
Field Tool
Filter
First Aid
Hardware

+ Add New Product type
Camera
Counter
GPS
Hilti Gun
Meter
Modem - cell
Modem - landline
Power Inverter

Pennsylvania
Department of Transportation
• **Inactive Sites Report** – provides a list of the permanent traffic counting devices with an inactive status
  – Assists in the development of future maintenance, repair, and installation needs

• **Inventory (Consumables)** – list of all items removed from the inventory between a date range.
  – Assists in the development of annual supply budget
• **Inventory (Non-Consumables)** – list of all items removed from the inventory.
  – Assists in the development of annual supply budget
  – Tracking of managed serialized inventory

• **Quality Assurance Schedule** – list of all permanent traffic counting sites, the review frequency, deadline for the review, and the scheduled date of the review
  – Documentation, if needed, of the accuracy of the sites
  – Interstate sites on an annual review cycle
  – All other sites – three year cycle
• **Review Frequency Missing** – Report that list all sites that do not have Review Frequency set for 1 – 3 years

• **Site Review Schedule** – Report that list Review Frequency, Review Deadline, and Scheduled Date for sites that falls between a date range
## Task Details Report

<table>
<thead>
<tr>
<th>Site #</th>
<th>Ticket #</th>
<th>Task #</th>
<th>Create Date</th>
<th>Last Action</th>
<th>Deadline</th>
<th>Task Status</th>
<th>Priority</th>
<th>Current Step</th>
<th>Currently Assigned To</th>
<th>Task Assigned To</th>
<th>Task Description</th>
<th>Task Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 / 4297</td>
<td>4346</td>
<td>4383</td>
<td>01/05/2017</td>
<td>01/25/2017</td>
<td>02/06/2017</td>
<td>Closed</td>
<td>High</td>
<td>1</td>
<td>davimadden</td>
<td>Rings No Connect error</td>
<td>Replace 12 V Battery</td>
<td></td>
</tr>
<tr>
<td>48 / 4297</td>
<td>7604</td>
<td>7644</td>
<td>12/05/2017</td>
<td>12/06/2017</td>
<td>12/11/2017</td>
<td>Closed</td>
<td>High</td>
<td>2</td>
<td>eomoregie</td>
<td>Rings No Connect error</td>
<td>Replace 12 V Battery</td>
<td></td>
</tr>
<tr>
<td>48 / 4297</td>
<td>7823</td>
<td>7844</td>
<td>12/18/2017</td>
<td>12/21/2017</td>
<td>12/22/2017</td>
<td>Closed</td>
<td>High</td>
<td>3</td>
<td>matthoeken</td>
<td>Rings No Connect error</td>
<td>Replace 12 V Battery</td>
<td></td>
</tr>
<tr>
<td>48 / 4297</td>
<td>7923</td>
<td>7905</td>
<td>12/28/2017</td>
<td>12/28/2017</td>
<td>12/28/2017</td>
<td>Closed</td>
<td>High</td>
<td>4</td>
<td>anchiodo</td>
<td>Battery Voltage</td>
<td>Battery voltage is between 11 and 13 volts</td>
<td></td>
</tr>
<tr>
<td>48 / 4297</td>
<td>7923</td>
<td>8007</td>
<td>01/02/2018</td>
<td>01/03/2018</td>
<td>01/04/2018</td>
<td>Closed</td>
<td>High</td>
<td>5</td>
<td>eomoregie</td>
<td>Install Modem</td>
<td>Installed modem</td>
<td></td>
</tr>
<tr>
<td>48 / 4297</td>
<td>8247</td>
<td>8293</td>
<td>01/22/2018</td>
<td>01/22/2018</td>
<td>01/24/2018</td>
<td>Closed</td>
<td>High</td>
<td>6</td>
<td>anchiodo</td>
<td>Rings No Connect error</td>
<td>Replace 12 V Battery</td>
<td></td>
</tr>
<tr>
<td>48 / 4297</td>
<td>8664</td>
<td>8785</td>
<td>02/27/2018</td>
<td>02/28/2018</td>
<td>02/28/2018</td>
<td>Closed</td>
<td>High</td>
<td>7</td>
<td>eomoregie</td>
<td>Rings No Connect error</td>
<td>Reset Counter/Modern Connection</td>
<td></td>
</tr>
</tbody>
</table>
### FOM Table

<table>
<thead>
<tr>
<th>Site</th>
<th>Maximum Priority</th>
<th>Open Tickets</th>
</tr>
</thead>
<tbody>
<tr>
<td>208 / 101</td>
<td>High</td>
<td>1</td>
</tr>
<tr>
<td>324 / 1798</td>
<td>Medium</td>
<td>1</td>
</tr>
<tr>
<td>334 / 4732</td>
<td>Medium</td>
<td>1</td>
</tr>
<tr>
<td>393 / 4541</td>
<td>Medium</td>
<td>1</td>
</tr>
<tr>
<td>505 / 26182</td>
<td>Low</td>
<td>1</td>
</tr>
<tr>
<td>506 / 568</td>
<td>Medium</td>
<td>1</td>
</tr>
<tr>
<td>710 / 879</td>
<td>Medium</td>
<td>1</td>
</tr>
<tr>
<td>801 / 1692</td>
<td>Low</td>
<td>1</td>
</tr>
</tbody>
</table>

Last Updated On: 5/29/2018 01:37 PM

---

TDS Dashboard - FOM

![TDS Dashboard Screenshot](image-url)
<table>
<thead>
<tr>
<th></th>
<th>2015 (Partial Year)</th>
<th>2016</th>
<th>2017</th>
<th>2018 (YTD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tickets Created</td>
<td>87</td>
<td>182</td>
<td>264</td>
<td>133</td>
</tr>
<tr>
<td>Tasks Completed</td>
<td>113</td>
<td>215</td>
<td>292</td>
<td>147</td>
</tr>
<tr>
<td>Reviews Completed</td>
<td>4</td>
<td>18</td>
<td>42</td>
<td>30</td>
</tr>
<tr>
<td>QA’s Completed</td>
<td>8</td>
<td>15</td>
<td>43</td>
<td>29</td>
</tr>
</tbody>
</table>
Conclusion

- Advantages of FOM System
  - Work Assignments
  - Maintaining Site History
  - Inventory Controls
  - Data Repository
Questions?

Joni K Sharp
Transportation Planning Manager
PA Department of Transportation
(717) 787-0186
josharp@pa.gov