UDOT Signal Performance Metrics: Configuration

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UDOT Statewide Signal Engineer
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### Signal Performance Metrics

<table>
<thead>
<tr>
<th>Metric Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purdue Phase Termination</td>
<td></td>
</tr>
<tr>
<td>Split Monitor</td>
<td></td>
</tr>
<tr>
<td>Purdue Coordination Diagram</td>
<td></td>
</tr>
<tr>
<td>Approach Volume</td>
<td></td>
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<tr>
<td>Approach Delay</td>
<td></td>
</tr>
<tr>
<td>Arrivals on Red</td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td></td>
</tr>
<tr>
<td>Turning Movement Counts</td>
<td></td>
</tr>
<tr>
<td>Yellow and Red Actuations</td>
<td></td>
</tr>
<tr>
<td>Purdue Split Failure</td>
<td></td>
</tr>
<tr>
<td>Pedestrian Delay</td>
<td></td>
</tr>
<tr>
<td>Transitions</td>
<td></td>
</tr>
<tr>
<td>Preemption Details</td>
<td></td>
</tr>
<tr>
<td>Transit Signal Priority Details</td>
<td></td>
</tr>
</tbody>
</table>
Configuration Utility – Basic Metrics

Signal Detectors
Configuration Utility – Basic Metrics
Configuration Utility – Basic Metrics

Detector Chann: 0

Detector ID: 700500

Enabled

IP Address: 0

Port: 0

Dist. From Stopbar: 0

Direction: Northbound

MPH: 0

PCD

Speed

Overlap

Split Fail

Decision Point: 0

Movement Delay: 0

Region: 2

Min Speed Filter: 0

TMC

RLM

Lane Type

Date Added: 15

Monitor Date: 15

Phase Only Added 11/26/2013

Save

Copy

Delete
Configuration Utility – Purdue Coordination Diagram
Configuration Utility – Purdue Coordination Diagram
Configuration Utility – Turning Movement Counts
Configuration Utility – Turning Movement Counts

Detector Chann: 3
Detector ID: 701403
Protected Phase: 5
Permitted Phase: 0
Direction: Westbound

IP Address: 0
Port: 0
Dist. From Stopbar: 0
MPH: 0

Descision Point: 0
Movement Delay: 0
Region: 2
Min Speed Filter: 0

TMC: added 5/19/2014

Save
Copy
Delete

Comments
Configuration Utility – Yellow & Red Actuations
Configuration Utility – Yellow & Red Actuations
Configuration Utility – Purdue Split Failure
## Configuration Utility – Purdue Split Failure

<table>
<thead>
<tr>
<th>Detector ID</th>
<th>Detector Chann</th>
<th>Protected Phase</th>
<th>Permitted Phase</th>
<th>Direction</th>
<th>Lane Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>735502</td>
<td>2</td>
<td>5</td>
<td>2</td>
<td>Northbound</td>
<td>L1</td>
</tr>
</tbody>
</table>

- **Detector ID**: 735502
- **Detector Chann**: 2
- **Protected Phase**: 5
- **Permitted Phase**: 2
- **Direction**: Northbound
- **Lane Type**: L1

**Split Fail**

**Date Added**: 11/24/2015

**Monitor Date**: 11/24/2015
Database Access
UDOT Configuration Stats

Detector Count by Metric

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number of Detectors Configured</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCD</td>
<td>Avg./Signal: 2.0</td>
</tr>
<tr>
<td>TMC</td>
<td>Avg./Signal: 12.2</td>
</tr>
<tr>
<td>YRA</td>
<td>Avg./Signal: 9.7</td>
</tr>
<tr>
<td>Split Fail</td>
<td>Avg./Signal: 11.3</td>
</tr>
<tr>
<td>Basic Metrics Only</td>
<td>(No Detectors)</td>
</tr>
</tbody>
</table>

Total: 5743 detectors + 1670 signals
Signal Numbering

- **Region 1**
  - UDOT: 5000 – 5499
  - Non-UDOT: 5500 – 5999

- **Region 2**
  - UDOT: 7000 – 7999
  - Salt Lake City: 1000 – 1999
  - Salt Lake County: 4000 – 4999

- **Region 3**
  - UDOT: 6000 – 6499
  - Non-UDOT: 6500 – 6999

- **Region 4**
  - UDOT: 8100 – 8599
  - Non-UDOT: 8600 – 8899

- **Other**
  - Ramp Meters: 8000 – 8099
  - Test controllers: 9000 – 9999
Signal Numbering

- **Region 1**
  - UDOT 5000 – 5499
  - Non-UDOT 5500 – 5999

- **Region 2**
  - UDOT 7000 – 7999
  - Salt Lake City 1000 – 1999
  - Salt Lake County 4000 – 4999

- **Region 3**
  - UDOT 6000 – 6499
  - Non-UDOT 6500 – 6999

- **Region 4**
  - UDOT 8100 – 8599
  - Non-UDOT 8600 – 8899

- **Other**
  - Ramp Meters 8000 – 8099
  - Test controllers 9000 – 9999