



SunGuide® Report Information



Last Updated: 2022/08/15 Version: 1.0

1. Report Name: WWD Report

2. Purpose of the Report:

To provide a list of the current state of various wrong way driving (WWD) devices managed by FDOT.

3. Report Sections:

The sections in the report provide a summary of the report generation with the associated district, the filter parameters selected from database fields in order to generate the displayed data, as well as details pertained to the WWD devices.

a. Filters for the report

Provides the date the WWD Report was generated, associated district, and filter parameters selected from database fields in order to display the corresponding WWD device attributes.

b. WWD Device List

Provides a list of WWD devices managed by FDOT with current state attributes including location, up and down time of device, and failure reason if applicable.

4. Report Field Definition:

Below are definitions of the primary report fields used and displayed in the report sections.

Device Number: Unique ID associated with WWD device.

Device Location: Location of WWD device including to and from ramp direction.

Device Type: FDOT device type.

Manufacturer: Manufacture of WWD device.

State: Current state of device (Online or Offline).

Up/Down Time: Amount of time device has been up/down.

Failure Reason: If device went down, reason for failure.

Uptime Percentage: Percentage of total time device has been up.

5. Report Filter Parameters Definition:

Below are definitions of the data fields used to produce the report fields above.

Device Type: Filter for specific device (vehicleAlertDevice).

From Date: Date Range (From).

6. Inclusion Criteria:

N/A

7. Database Tables and Fields:

8. The data in this report comes from the VW_RS_DEVICE_HISTORY views. The underlying data comes from the following tables and their associated fields.

DMS:

- **DMS_IDENTIFIER:** Name associated with device.

DMS_MANUFACTURERS:

- **MANUFACTURER_NAME:** Name of manufacturer of device.

EQUIP_LOCATION:

- **DESCRIPTION:** Device location.
- **RESOURCE_TYPE:** Type of device used.

DA_DEVICE_STATUS:

- **ONLINE_STATE:** Is Device online? (TRUE or FALSE)
- **REASON:** Reason for failure of device if applicable.

9. Appendix: Complete SQL Query:

FDOT_OWN.VW_RS_DEVICE_HISTORY

SELECT

REPORT_DATE_UTC AS REPORT_DATE,

STATUS_TIMESTAMP_UTC AS STATUS_TIMESTAMP,

DEVICE_TYPE,

DEVICE_NAME,

DEVICE_LOCATION,

MANUFACTURER_NAME,

ONLINE_STATE,

REASON,

CASE WHEN IDS_VEHICLE_ALERT_DEVICE.TYPE = 'WrongWayDriverDetection' THEN 'WWD'
ELSE 'OH' END as VEHICLE_ALERT_DEVICE_TYPE

FROM VW_RS_DEVICE_HISTORY

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JOIN IDS_VEHICLE_ALERT_DEVICE ON LEFT(VW_RS_DEVICE_HISTORY.DEVICE_ID, CHARINDEX(':',
VW_RS_DEVICE_HISTORY.DEVICE_ID) - 1) = IDS_VEHICLE_ALERT_DEVICE.RESOURCE_ID

WHERE CONVERT(DATETIME2, DATEADD(MI, -DATEDIFF(MI, '{?pf_dt_from_datetime_utc}',
'{?pf_dt_from_datetime}'), '{?pf_dt_from_datetime}')) <= STATUS_TIMESTAMP_UTC

AND VW_RS_DEVICE_HISTORY.DEVICE_TYPE = 'vehicleAlertDevice'

AND IDS_VEHICLE_ALERT_DEVICE.TYPE = 'WrongWayDriverDetection'

UNION ALL

SELECT
    REPORT_DATE_UTC AS REPORT_DATE,
    STATUS_TIMESTAMP_UTC AS STATUS_TIMESTAMP,
    DEVICE_TYPE,
    DEVICE_NAME,
    DEVICE_LOCATION,
    MANUFACTURER_NAME,
    ONLINE_STATE,
    REASON,
    CASE WHEN IDS_VEHICLE_ALERT_DEVICE.TYPE = 'WrongWayDriverDetection' THEN 'WWD'
    ELSE 'OH' END as VEHICLE_ALERT_DEVICE_TYPE
FROM VW_RS_DEVICE_HISTORY

JOIN IDS_VEHICLE_ALERT_DEVICE ON LEFT(VW_RS_DEVICE_HISTORY.DEVICE_ID, CHARINDEX(':',
VW_RS_DEVICE_HISTORY.DEVICE_ID) - 1) = IDS_VEHICLE_ALERT_DEVICE.RESOURCE_ID

JOIN (
    SELECT DEVICE_ID, MAX(CONVERT(DATETIME2, DATEADD(MI, -DATEPART(TZ,
STATUS_TIMESTAMP), STATUS_TIMESTAMP))) STATUS_TIMESTAMP
    FROM VW_RS_DEVICE_HISTORY
    WHERE CONVERT(DATETIME2, DATEADD(MI, -DATEDIFF(MI, '{?pf_dt_from_datetime_utc}',
'{?pf_dt_from_datetime}'), '{?pf_dt_from_datetime}')) > STATUS_TIMESTAMP_UTC
    GROUP BY DEVICE_ID
) TEMP

ON VW_RS_DEVICE_HISTORY.DEVICE_ID = TEMP.DEVICE_ID

AND VW_RS_DEVICE_HISTORY.STATUS_TIMESTAMP = TEMP.STATUS_TIMESTAMP

```

AND VW_RS_DEVICE_HISTORY.DEVICE_TYPE = 'vehicleAlertDevice'

AND IDS_VEHICLE_ALERT_DEVICE.TYPE = 'WrongWayDriverDetection'