



## VDS240 Wireless Vehicle Detection System SNAPS Professional - Release 2.20.11

### Release Notes

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#### Scope

Required for all Sensys Networks customers wanting to use the new functionality provided in SNAPS 2.20.11.

#### Bug Fixes and Feature enhancements

##### **[13460] Diag report with email and excel spreadsheet fails for multiple Aps**

If the emailed diag report has no sensor data during time of report, it will create an error in the output.

This bug has now been fixed.

##### **[13583] Relaunching of data service snapdragon leads to permanent data service interruption**

This bug caused traffic data reception via Poll Services to stop working in some instances.

This bug has now been fixed.

##### **[13850] Add XML Inventory feed that dumps all devices [13850]**

This enhancement enables a full inventory dump of all APs, Repeaters, and Sensors in a REST XML data feed. Only a pull feed is implemented.

Usage:

REQUEST URL

=====

/snaps/dataservice/inventory.xml?username=[username]&password=[password]

username - snaps user name

password - password for user name

NOTE: the user must have permissions to read real time data. (View list of Real Time Data Services)

RETURNED XML

=====

<ap id="AP666" desc="Hwy82" lat="37.8733968" lon="-122.3018861" active="false">

<repeater id="05de" type="FLEX\_1"/>

<sensorZone id="58317" name="WBAS0" lat="0.0" lon="0.0">

<sensor id="2744" type="MAG"/>

</sensorZone>

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</ap>  
where:  
ap-id = name of access point, may be used for XML diag feed request  
ap-desc = description of access point  
ap-lat/lon - coordinates as setup in SNAPS GUI  
ap-active - active|inactive as setup in snaps GUI  
repeater-id - short id of repeater  
repeater-type - type of repeater hardware  
sensorZone-id - db id of sensor zone, matches TMDD device id  
sensorZone-name - name of sensor zone from dot tables  
sensorZone-lat/lon - coordinates as setup in SNAPS GUI  
sensor-id - short sensor id  
sensor-type - sensor type as seen in snp packets

### **[13415] Add 20sec interval to push/poll stat feed**

This enhancement adds a 20 sec reporting interval option for the Push and Pull Service supported as part of the Real Time Data Services provided by SNAPS.

### **[13418] Update TMDD feed with Average Vehicle Length**

This enhancement adds Average Vehicle Length to the Detector Data Response in the TMDD Web Services supported as part of Real Time Data Services provided by SNAPS.

### **[14005] SnapDragon needs to support all transmit intervals**

This enhancement enables traffic and diagnostic reports to be available for all settings of the wireless sensor transmit intervals: .03125, .0625, .125, .25, .5, 1, 2, 3, 5, 6 secs.

### **[14243] Proxy port 443 for SensConfig connection via SNAPS**

This enhancement adds port 443 to the proxy ports for Access Points to allow for SensConfig1 traffic to pass. SensConfig can be launched from SNAPS->Configuration->Access Points -> <AP Name>->Configure Access Point with SensConfig for Access Points that are directly connected or VPN connected provided the VDS version is  $\geq 4.2.1.20$ .

The Configure Access Point with SensConfig option is grayed out for Access Points with VDS version  $< 4.2.1.20$ . This proxy support is also available for Access Point connections through another SNAPS server. .

### **[15169] Poll XML Stat data feed returns Speed Median while SNAPDRAGON returns Speed Average**

When speedAverageMethod is not specified or equals MEDIAN, Poll XML Stat data feed returns Speed Median while SNAPDRAGON returns Speed Average. Logic that outputs SpeedAverage and SpeedMedian to the XML data Feed has been added, independently if the request has the speedAverageMethod parameter or not.

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### [15170] Poll XML Stat data feed returns speed median in Imperial units when user has metric units

Now the XML Data feeds output the units in metric or imperial depending on the User's own settings.

### [7957] Add speed averages and speed avg options to XML feeds

Currently, statistic feeds return Volume, Occupancy, and Speed Average information for Sensors Zone Groups. The data may be optionally aggregated.

Statistic feeds can be accessed via Web services as follows:

`http://[snaps_server_ip_address]/snaps/dataservice/stats.xml?userName=[valid user name]&password=[valid password]&startTime=[start time of stat report, in Unix Epoch seconds]&period=[report period in seconds]&locationGroup=[sensor zone group name]`

A new parameter "speedAverageMethod" has been added to provide averages by one of following:

- MEDIAN
- AVERAGED\_BY\_CAR
- AVERAGED\_OVER\_TIME
- OCCUPANCY\_BASED

"speedAverageMethod" parameter can be added to query URL to get speed averages based on the value of the parameter. An example using MEDIAN value for this parameter is:

`http://[snaps_server_ip_address]/stats.xml?userName=admin&password=admin&startTime=1331242276&period=60&locationGroup=Main&Street&speedAverageMethod=MEDIAN`

Note that these values correspond to the values for "Speed Averages" in the Traffic Statistics GUI. "Disabled" in the GUI corresponds to "MEDIAN" and/or "speedAverageMethod" being omitted from the feed query. The other options are named similarly between the GUI and the feed option, so they are self-explanatory.

The default values for Traffic Statistics reports in the SNAPS GUI is: "Averaged by car".

So, trying to match feed data to a default traffic report, user needs to use this example query:

`http://[snaps_server_ip_address]/stats.xml?userName=admin&password=admin&startTime=1331242276&period=60&locationGroup=Main&Street&speedAverageMethod=AVERAGED_BY_CAR`

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