

## Release Notes

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### Scope

Required for all Sensys Networks customers interested in the new features and bug fixes incorporated in the VIMS addon 4.2.0 release.

The VIMS addon is an external addon and is downloaded to the Gateway (FlexAP, FlexControl Module, FlexControl Card (APCC)). The VIMS addon interfaces with a Wi-Fi radio (Order Code: APCC-WF) or Bluetooth Radio (Order Code: APCC-BT) connected to the USB port of the Gateway. The VIMS addon scans for Wi-Fi or Bluetooth (BT 2.0 or BT 4.0) MAC addresses in the coverage range of the Wi-Fi or Bluetooth radio. The MAC addresses are forwarded to a SNAPS or other server for processing by the SensID or other travel time application.

**The VIMS addon 4.2.0 release requires the VDS release v4.2.2 or later installed on the Gateway.**

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## VDS240 Wireless Vehicle Detection System

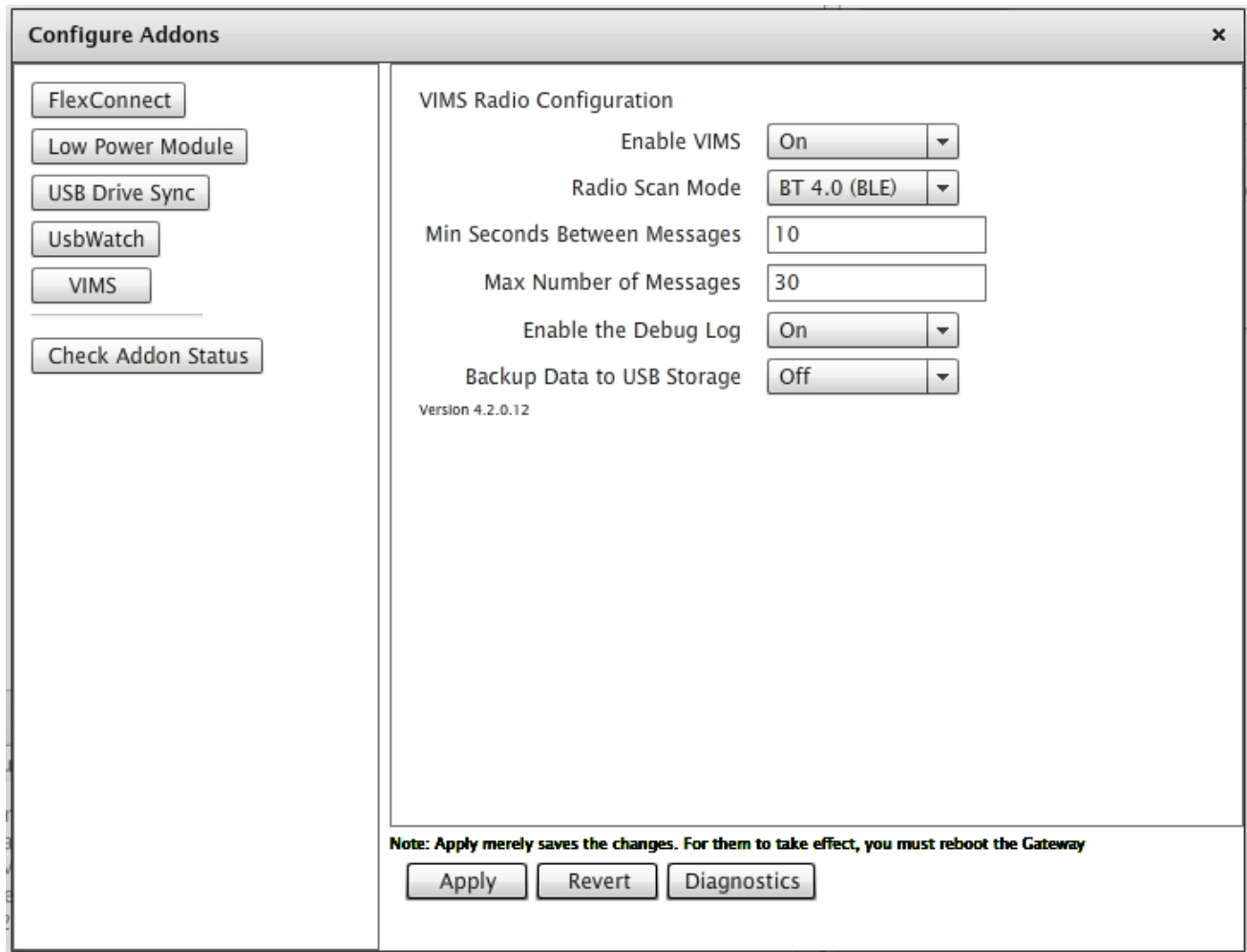
### VIMS 4.2.0

#### What's in this Release?

##### New Features

1. **Selectable Bluetooth Low Energy (BLE) Packet Capture Mode [14720].** Extend the VIMS Radio Scan Mode to include the capture and forwarding of BLE packets from the Sensys BT Radio. Also, this enhancement (i) constricts the packet rate on a combination of the unique MAC and maximum re-transmission rate, (ii) adds a logging function, and (iii) adds a backup USB storage capability.

The VIMS addon is configured through TrafficDot2 at Tools/Addons/VIMS. The VIMS configuration panel is shown below. Click *Apply* to make any configuration changes or *Revert* to cancel any configuration changes.



The screenshot shows a window titled "Configure Addons" with a close button (X) in the top right corner. On the left side, there is a vertical list of buttons: FlexConnect, Low Power Module, USB Drive Sync, UsbWatch, VIMS, and Check Addon Status. The main area is titled "VIMS Radio Configuration" and contains the following settings:

Enable VIMS	On
Radio Scan Mode	BT 4.0 (BLE)
Min Seconds Between Messages	10
Max Number of Messages	30
Enable the Debug Log	On
Backup Data to USB Storage	Off

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**Note: Apply merely saves the changes. For them to take effect, you must reboot the Gateway**

At the bottom of the panel are three buttons: Apply, Revert, and Diagnostics.

Figure 1: VIMS Radio Configuration Panel

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## VDS240 Wireless Vehicle Detection System

### VIMS 4.2.0

The VIMS Radio configuration options are described in the following table.

VIMS Addon Parameter	Values	Action
Enable VIMS	On	Enables the VIMS Radio (see NOTE below)
	Off	Disables the VIMS Radio
Radio Scan Mode	BT 4.0 (BLE)	Scan with Bluetooth 4.0 Low Energy (APCC-BT radio required)
	BT 2.0 (HCI)	Scan with Bluetooth 2.0 HCI (APCC-BT radio required)
	WiFi	Scan with WiFi (APCC-WF radio required)
Min Seconds Between Messages	<seconds>	The minimum time duration between messages forwarded from a unique device (0 = unlimited rate)
Max Number of Messages	<number>	The maximum number of messages forwarded from a unique device (0 = unlimited count)
Enable the Debug Log	On Off	Record “Debug Log” messages for diagnostic output (limited in size/duration)
Backup Data to USB Storage	On Off	Enable “workingFile” and “DebugLog” message archival to the external USB storage device

**Table 1 : VIMS Addon Configuration Parameters**

**NOTE:** Click *Check Addon Status* for status of each addon (see Figure 2 below). The VIMS addon will initially show *Status* as “yellow” and message as “vims usb device not active”. The startup time for the VIMS addon when Enabled can be up to 120 seconds. The usbwatch addon is responsible for starting all addon applications connected to the Gateway USB ports, including the VIMS addon. The startup time has to be long enough to accommodate all those add-on applications.

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## VDS240 Wireless Vehicle Detection System VIMS 4.2.0

Current Addon Status <span style="float: right;">x</span>				
Name	Enabled	Status	Time	Last Message
mlp	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 11:12:33 AM	mlp is enabled
thumb	<span style="background-color: red; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 12:00:03 PM	thumb drive not available
usbwatch	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 11:12:32 AM	usbwatch is enabled
vims	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: yellow; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 02:26:57 PM	vims usb device not active

Refresh

Figure 2: Current Addon Status Panel

After the VIMS addon is started, upon *Refresh* of the status panel, the VIMS addon status will show “green” and the message as “vims scanning bt4 ble” if BT 4.0 (BLE) is selected (see Figure 3 below).

Current Addon Status <span style="float: right;">x</span>				
Name	Enabled	Status	Time	Last Message
mlp	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 11:12:33 AM	mlp is enabled
thumb	<span style="background-color: red; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 12:00:03 PM	thumb drive not available
usbwatch	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 11:12:32 AM	usbwatch is enabled
vims	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 02:20:05 PM	vims scanning bt4 ble

Refresh

Figure 3: VIMS Addon Status Panel

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## VDS240 Wireless Vehicle Detection System VIMS 4.2.0

If there is mismatch between the VIMS Radio and the Radio Scan Mode configuration, the VIMS addon status will continue to show “yellow” and the message as “vims Radio Hardware “wifi” does not support Radio Scan Mode BT 4.0 (BLE)” if mismatch is caused by a VIMS Wi-Fi radio (APCC-WF) (see Figure 4 below).

Current Addon Status <span style="float: right;">x</span>				
Name	Enabled	Status	Time	Last Message
mlp	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 11:12:33 AM	mlp is enabled
thumb	<span style="background-color: red; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 12:00:03 PM	thumb drive not available
usbwatch	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: green; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 11:12:32 AM	usbwatch is enabled
vims	<span style="background-color: green; width: 15px; height: 10px;"></span>	<span style="background-color: yellow; width: 15px; height: 10px;"></span>	Tue Aug 30 2022 02:44:57 PM	vims Radio Hardware "wifi" does not support Rad

Refresh

Figure 4: Current Addon Status Panel

2. **Diagnostics now include information about memory, CPU, uptime, and dmesg usage statistics [14828].** Add memory, cpu, uptime, and dmesg usage statistics to diagnostic.

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