

VMM 0604/2404 Application Release Notes (836602)

Parker Vansco Software Product Number: 836602

Description: VMM Application Code (as described in the [VMM Embedded Software Topic](#)) for use with VMM 0604 and VMM 2404 hardware.

VMM System Version 7

Version 3.00 build 66 (July 15, 2010)

- ▶ VMM System Version 7.1.
- ▶ Black box interface version 7.
- ▶ Supports VMM 0604 hardware.
- ▶ Supports VMM 2404, VMM 2404-2 hardware.
- ▶ Minimum VMMS build number allowed: 700.

Production release.

Changes from V0.10 build 65:

- ▶ Version change: version reported changed to 3.00 build 66. (Case #5537)

Version 0.10 build 65 (May 11, 2010)

- ▶ VMM System Version 7.1.
- ▶ Black box interface version 7.
- ▶ Supports VMM 0604 hardware.
- ▶ Supports VMM 2404, VMM 2404-2 hardware.
- ▶ Minimum VMMS build number allowed: 700.

Prototype release (expected production release version 3.00).

Changes from V0.09 build 64:

- ▶ New feature: support for optional VMMS added. It is because of this feature that the VMM System Version increased to 7.1. (Ticket #164)
- ▶ Power LED change: blink power LED when an output is faulted. (Ticket #175)
- ▶ VMM diagnostic message change: no longer filters on priority when receiving VMM diagnostic messages. (Ticket #179)

Version 0.09 build 64 (November 30, 2009)

- ▶ VMM System Version 7.0.
- ▶ Black box interface version 7.
- ▶ Supports VMM 0604 hardware.
- ▶ Supports VMM 2404, VMM 2404-2 hardware.
- ▶ Minimum VMMS build number allowed: 700.

Prototype release.

Changes from V2.00 build 62:

- ▶ Added support for VMM 2404-2 hardware.

Version 2.00 build 62 (July 9, 2009)

- ▶ VMM System Version 7.0.
- ▶ Black box interface version 6.
- ▶ Supports VMM 0604 hardware.
- ▶ Supports VMM 2404 hardware.
- ▶ Minimum VMMS build number allowed: 700.

Changes from V1.3 build 55:

- ▶ VMM System Version 7.0
- ▶ Provides support for upto 20 received [J1939 Diagnostic Trouble Codes](#) (DTCs) per VMM.
- ▶ Built-in [slave](#) module support added.
- ▶ Blackbox interface changed from version 5 to 6 with the following services added:
 - ▶ [add_J1939_diagnostic_trouble_code_to_DM1_table](#)
 - ▶ [get_J1939_diagnostic_trouble_code_state_by_index](#)
 - ▶ [get_J1939_diagnostic_trouble_code_state_by_SA_SPN_FMI](#)
 - ▶ [add_slave_module](#)
 - ▶ [configure_slave_module_inputs](#)
 - ▶ [configure_slave_module_outputs](#)
 - ▶ [get_slave_module_status](#)
 - ▶ [get_slave_module_input_value](#)
 - ▶ [set_slave_module_output_value](#)
- ▶ Supports upto 16KB [J1939 table](#).
- ▶ [Master power](#) setting can be adjusted on a [VMM](#) by VMM basis.
- ▶ [Output](#) auto reset (OAR) can be set on an output by output basis.
- ▶ Short fault threshold (SFT) can be set on an [output](#) by output basis.
- ▶ Force present [flag](#) Fx-248 added.
- ▶ Corrected an issue that under certain circumstances prevented a corrupted module [count / duration](#) / [generic log](#) from being restored using it's backup copy in [eeprom](#) resulting in the log being set to it's default value.
- ▶ Plug and play response timeout increased to support large VMM systems.
- ▶ [VMM J1939 status message](#) optimization:
 - ▶ For all programmable inputs, only broadcast the primary type on change and once a second, and the rest just once a second.
 - ▶ Force status messages are only broadcast when the VMMS software is detected, or when a force of a particular type is present.
- ▶ Enhanced network error ([flag Fx-255](#)) detection to include the condition: master power is active, and one (or more) VMM that is defined in ladder logic is not available.
- ▶ Minimum VMMS build number enforced. Currently VMMS build 700 or higher is required.
- ▶ The VMM will accept address specific diagnostic commands from the instrument cluster J1939 address 0x17 (23).
- ▶ Supports default value configuration for [count/duration/generic logs](#).

VMM System Version 6

Not available.

VMM System Version 5

Version 1.3 build 55 (November 26, 2007)

- ▶ VMM System Version 5.0.
- ▶ Black box interface version 5.
- ▶ Supports VMM 0604 hardware.

- ▶ Supports VMM 2404 hardware.

Changes from V1.2 build 47:

- ▶ More than one [control block](#) supported. Previously on the first control block defined would execute.
- ▶ An issue with the VMM0604 programmable input maximum voltage settings where 0.75V and 1.5V were swapped, has been corrected.
- ▶ Blackbox interface changed from version 4 to 5 as one additional blackbox service is provided: `get_immediate_period`.

Version 1.2 build 47 (July 11, 2006)

- ▶ VMM System Version 5.0.
- ▶ Black box interface version 4.
- ▶ Supports VMM 0604 hardware.
- ▶ Supports VMM 2404 hardware.

Changes from V1.1 build 45:

- ▶ A2D issues corrected.
- ▶ Black box eeprom issue corrected.

Version 1.1 build 45 (March 17, 2006)

- ▶ VMM System Version 5.0.
- ▶ Black box interface version 4.
- ▶ Supports VMM 0604 hardware.
- ▶ Supports VMM 2404 hardware.

Changes from V1.0 build 44:

- ▶ J1939 PGN Option 1 issue corrected.

Version 1.0 build 44 (March 6, 2006)

- ▶ VMM System Version 5.0.
- ▶ Black box interface version 4.
- ▶ Supports VMM 0604 hardware.
- ▶ Supports VMM 2404 hardware.

First Release.