

## 18.1 Viking Subscriber Software General Release

Effective Release: 04/30/18

FSN-0418-VIKING-05

This Field Software Notice (FSN) serves to announce KENWOOD Viking® radio software release of version 18.1. This release provides bug fixes and new features for Viking radios. This release supersedes KENWOOD Viking software release 17.2.

### Software Versions and Part Number

The following table captures the Viking Software version and corresponding part number.

Item	Version
VP400/600/900 Firmware	8.22.10
VM400/600/900 Firmware	8.22.10
VP5000/6000 Firmware	8.22.10
VM5000/6000/7000 Firmware	8.22.10
Armada	1.22.10
OTAP Server	1.22.2
Data Registration Server	1.16.0
Elite Battery Management Server	1.12.1

## Products Introduced

### VM7000

With the VM7000 All-Band Multi-Deck Mobile, you can simultaneously receive and display up to four bands so you never miss a call. The “select” and “unselect” speakers give you the option for audio control similar to a dispatch console. The KENWOOD Viking is the industry’s only mobile platform providing TrueVoice™ noise cancellation.



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Product Detail	
Item	Description
VM7730	VM 7000 136-174 MHz
VM7830	VM 7000 Type 1: 450-520 MHz VM 7000 Type 2: 380-470 MHz
VM7930	VM 7000 RX:763-776,851-870 MHz VM 7000 TX:763-776,793-806,806-825,851-870 MHz

**VM7000 Supported Audio Accessories**

The following table shows a list of the supported accessories:

Category	P/N	Name
Speaker Microphones	KMC-35	MOBILE MIC, STANDARD, MIL-SPEC, KCH-19/20
	KMC-36	MOBILE MIC, 12 KEYPAD, MIL-SPEC, KCH-19/20
External Speaker	KES-5	MOBILE SPEAKER, 40W MAX INPUT, VM-T
Programming Cable	R5975357791	PROGRAMMING CABLE, USB, VM-T RM AND VM-H

**VIKING HHC**

Handheld control head (KCH-21) designed to work with the Viking VM6000 Mobile Radio.

**Feature Highlights**

- Speaker microphone with full-featured control head
- Handheld design offering one-handed operation of PTT, volume and channel selection
- Designed to work with the Viking VM6000 mobile radio using Control Head Remote Kit
- Intuitive operation similar to that of the VP5000 and VP6000



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## VM6000

New KENWOOD [Viking 6000](#) series mobile is specifically designed for today’s public safety agencies with advanced features and ergonomics to meet the first responder’s mission critical operational needs. Uncompromised quality and performance with public safety ergonomics, the KENWOOD Viking® is the industry’s only mobile platform providing TrueVoice™ noise cancellation. This new Viking product is an addition to our current Viking series mobile radios portfolio with Viking software feature capabilities. The new VM6000 radio is compatible with Armada® programming and fleet management software, so agencies can mix and match different Viking series radios according to specific department needs while efficiently managing the entire fleet using a common fleet management framework. It has user selectable color themes and it is compatible with multiple P25 systems. It is equipped with viking control head.

Product Detail	
Item	Description
VM6730BF	VM 6000 136-174 MHz
VM6830BF	VM 6000 450-520 MHz
VM6830BF2	VM 6000 380-470 MHz
VM6930BF	VM 6000 700/800 MHz






### VM6000 Supported Audio Accessories

The following table shows a list of the supported accessories:

Category	P/N	Name
Speaker Microphones	250074031003	MOBILE MIC, STANDARD, LF10 12-PIN CONN, VCH
Desk Mic	589001202303	DESKTOP MIC, VCH
External Speaker	2500151005	MOBILE SPEAKER, 15W, 5 IN., MONO PLUG, VCH
	2500151006	MOBILE SPEAKER, 15W, 5 IN., CRIMP LEADS, VCH
Programming Cable	R5975357791	CABLE, USB 2.0 A MALE TO MICRO MALE, 6FT

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**New Accessories**

<p><b>FIRE SPEAKER MIC, OTTO</b></p> <p><b>P/N: <u>836FSM10</u></b></p> <p><b>Compatible with: VP 600/900</b></p>		<ul style="list-style-type: none"> <li>• Functions at least 5 minutes at 500°F</li> <li>• Removable front grill with replaceable screen for easy removal of dirt and debris</li> <li>• Heavy-duty cable and strain relief, designed to withstand hot blasts of 500°F</li> <li>• Optional emergency button with larger notch for easier actuation</li> <li>• Large snap-action PTT for use with gloves and protective gear</li> <li>• Dual grill provides immersion and high pressure water seal</li> <li>• Immersion rated, fully sealed per IP68 standard: tested to withstand submersion in 1</li> </ul>
<p><b>BLUETOOTH SPEAKER MIC, BTH-600 (Roadmap: May-2018)</b></p>		<ul style="list-style-type: none"> <li>• BTH-600 (for Radio) - HEAVY DUTY Bluetooth speaker microphone, remote speaker mic with built-in wireless PTT. Includes charger and charging cable.</li> </ul>
<p><b>BLUETOOTH MICROPHONE KIT, BTH-300 (Roadmap: May-2018)</b></p>		<ul style="list-style-type: none"> <li>• BTH-300 Bluetooth microphone kits for 2-way radios, Includes built-in wireless PTT. Includes charger kit.</li> </ul>
<p><b>EARPHONE, CLEAR TUBE, FOR BTH-300 (Roadmap: May-2018)</b></p>		<ul style="list-style-type: none"> <li>• EH-3099sC BULLET series Clear Tube Style Earphone for BTH-300 series</li> </ul>
<p><b>BLUETOOTH HEADSET, BTH-900 (Roadmap: May-2018)</b></p>		<ul style="list-style-type: none"> <li>• Bluetooth Ear Muff: Rugged Over-the-head headset with noise-cancelling boom mic and padded speaker. Includes USB charging cable and wall charger.</li> </ul>

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## Features Added

Following new features are added in release 18.1

Feature Description	Overview
<b>Man Down</b>	The VPx000 supports the Man Down feature.
<b>Backlight on Receive</b>	The backlight will turn on for the time specified by the backlight timer whenever a call is received.
<b>Transmit Audio Monitor</b>	It is the function to monitor audio of the transmitting Control Head by the speaker of the other Control Head when transmitting on the connected Control Head 1 and Control Head 2. The function is for Dual Control Head. The conversation can be heard even if the 2 Control Heads are at remote locations.
<b>Armada Button/Menu Copy/Paste</b>	Previously, when the same button/menu configuration was needed on two profiles or interfaces, that information had to be manually entered twice. Now, button and menu parameters may be copied from one interface or profile and pasted to another.
<b>Free-Spinning Channel/Zone Selector Knob</b>	The channel/zone selector knob on VPx000 radios has a removable stop ring. When the stop ring is removed, the knob is allowed to rotate freely (i.e. clockwise past position 16 to position 1, and vice versa). A free-spinning knob can be used to select channels/zones that exceed the 16 positions on the knob.
<b>Bluetooth</b>	This feature adds support to the VPx000 radios for some Bluetooth devices.
<b>Vault</b>	The perpetual software license program is enabled by <a href="#">Vault™</a> , an online license purchase, storage, and transfer system that enables a customer to have full control over their software licenses.
<b>Channel Alias Match Selected Talkgroup Alias</b>	Add a preference to have the Channel Alias change to the Talkgroup or Announcement Group Alias when the TG assigned to the channel is changed.
<b>Armada Save to PDF</b>	A “Save to PDF” button has been added to the print dialog box. When pressed, the user is prompted for a filename and save location.
<b>European Standard</b>	Some subscribers did not meet European ETSI EN 300 086 performance standards. The audio response needs modifications for European narrowband requirements.
<b>Federal Signal Convergence Network Support</b>	Mobile subscribers may now communicate with a Federal Signal convergence network through a Federal Signal control pad by activating the functions programmed to the control pad’s buttons. These functions may be toggled on and off or activated momentarily. The existing PA buttons may route audio to Federal Signal devices on VMx000 subscribers.

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## Feature Enhancements

The following feature enhancements are available in release 18.1.

Feature Description	Overview
<b>Conventional Squelch List Alias</b>	This feature adds the ability to view an alias for the squelch list instead of an index.
<b>Call Alert HEX Direct Entry</b>	MDC Call alert uses hexadecimal ID's. Now the user can input the MDC Call Alert ID in hexadecimal.
<b>Add OTAR Registration State to Radio Info Menu</b>	Subscriber Info menu now contains the current OTAR Registration State. Possible states are Yes, No, and N/A. Yes/No will show up if the subscriber is in P25 Trunking Mode, and N/A will appear if the subscriber is not.
<b>Add PTT to Keypad Lockout Options</b>	"PTT Button" has been added to the keypad lockout options in Armada on the Global→Portable Options tab.
<b>Trunking Talkgroup and AG Aliases</b>	Allow each trunking talkgroup and announcement group to have its own alias, as conventional talkgroups have.
<b>Encryption icon indicates encryption Algorithm type</b>	An encryption algorithm is displayed in secure mode.
<b>Button/Menu Multi-select</b>	Multiple system types may be selected on the button page to apply a function to a button on all selected system types at once.
<b>P25 Two Tone Decoder (include it in new features)</b>	The Digital Conventional and P25 Trunking Phase1 (FDMA) and P25 Trunking Phase2 (TDMA) support the P25 Two Tone Decoder feature. As with Analog Two Tone, P25 Two Tone provides P25 Two Tone decoding on P25 Conventional and P25 Trunking Phase1 (FDMA), P25 Trunking Phase2 (TDMA).
<b>EVRS Enhancements</b>	The following feature enhancements have been added to the EVRS feature. <ol style="list-style-type: none"> <li>1. 17.2 EVRS Feature Set supported in VMx000</li> <li>2. SmartNet/SMARTZONE support</li> <li>3. TDMA support for P25 Trunking</li> <li>4. Portable data registration turned off automatically on EVRS enabled channels</li> <li>5. Scan turns off and on automatically on EVRS activation and deactivation</li> <li>6. Conventional OOR reported from mobile to portable</li> <li>7. Door switch support</li> <li>8. Busy channel lockout for Conventional</li> <li>9. Special talk permit tone for EVRS OOR state</li> </ol>
<b>P25 TDMA Interconnect Support</b>	Phone Interconnect on TDMA traffic channels will now be supported in P25 Trunking.
<b>Armada Programmable Ignition Sense</b>	In the initial implementation of ignition sense in VM5000 series radios, ignition sense was required by default to power on the radio, to match the VM600 behavior. Ignition sense monitoring could be disabled through the Radio Setup menu. It was requested that VM5000 radios work more like TK5000 radios in that ignition sense would be disabled by default at the factory, and that ignition sense monitoring would be configurable by Armada.
<b>Industry Canada</b>	The Industry Canada option restricts transmit power to 30 W.

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## Customer Issues Addressed

Following is a list of customer impacting issues that are resolved in release 18.1.

Issue	Overview
<b>Voice Announcement List Sorting</b>	Custom sorting on the Audio Library Dialog caused odd sorting for customers with numbers in their audio filenames. The Audio Library Dialog now sorts the same as the Audio combo boxes and the Windows file system.
<b>Armada Cloning Wizard Restart</b>	This change fixes an issue where Armada could restart while the user was running the cloning wizard.
<b>Votescan with channel specific squelch settings</b>	The radio will now use the squelch settings programmed for each individual channel in the votescan list. Prior to this change, the radio used the squelch settings from the selected channel.
<b>VP/VMx000 Encrypted Console Preemption Issues</b>	This change fixes an issue where the VPx000 and VMx000 radios didn't properly handle the interruption of an encrypted call by an encrypted console call. The radio audio was garbled for the duration of the preemption.
<b>Support for AIRBUS Failsoft LC</b>	Airbus uses a proprietary MFID and LC to activate failsoft. We now check if a received LC contains Airbus's MFID (0x18) and LCO (0x32), to activate failsoft.
<b>Return to selected channel immediately on scan off</b>	Subscribers receiving a P25 Trunking call via Priority Scan will now resume normal operation on the selected channel as soon as scan is disabled rather than waiting for the active scan call to complete and scan hold time to finish. This functionality matches Conventional Priority Scan. This also matches other manufacturers' functionality.
<b>Clear Emergency Receive message while in hangtime</b>	Previously, subscribers receiving P25 Trunking calls would detect the emergency status of the traffic channel in hangtime and display an "Emer Receive" message. Now users can choose to suppress this message by disabling the new "Display Emergency in Hangtime" setting found in P25 Trunking emergency lists.
<b>Addressed Fireground OOR indication failure in specific situation</b>	If the user enters Fireground mode while on a channel without OOR settings enabled, the subscriber may fail to follow the OOR settings of the Fireground channel. This change ensures that the settings of the channel that the subscriber moves to when entering Fireground mode are followed.
<b>VM7000 One touch deck selection and Muting</b>	While the selected deck is transmitting, all unselected decks are muted.
<b>Muting</b>	In multi-deck configuration audio can be muted in following three ways: <ul style="list-style-type: none"> <li>• User can mute audio from all devices, regardless of which device is considered selected. If the regular mute function is active, then it will override both the unselected deck setting and the individual unselected deck setting.</li> <li>• User can mute the unselected deck. This will mute all audio on all unselected decks, but not audio from the selected deck. Pressing and holding the button results in a temporary mute using the individual deck mute time programmed for the unselected decks. This time may be programmed as infinite</li> <li>• User can mute individual unselected deck. This is accessible via a press and hold of the deck selection button. This will mute only the audio on a specific device when it is unselected.</li> </ul>

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