



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

Updated April 11, 2025

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# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Current Portable Radio Models – Full Support Available

This table contains radio models, which have available support from manufacturers, including firmware and feature enhancements. These models can meet all MPSCS minimum specifications, when properly configured, and are [DHS Project-25 Compliance Assessment Program \(P25 CAP\)](#) certified devices.

Portable Radios					
Manufacturer	Model	Version	Minimum Firmware	Additional Information	
<a href="#">Motorola Solutions</a>	APX 900	2, 3	R35.00.00	DES encryption & OTAR not supported by this model <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO DES ENCRYPTION LIMITATIONS</b>	
	APX 1000	1.5, 2, 3		DES/AES encryption & OTAR not supported on this model <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO DES/AES ENCRYPTION LIMITATIONS</b> <a href="#">Discontinued by manufacturer</a>	
	APX 3000	1			
	APX 4000	2, 3		DES encryption & OTAR not supported on this model <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO DES ENCRYPTION LIMITATIONS</b>	
	SRX 2200	1.5, 3.5			
	APX 6000	1.5, 2.5, 3.5, XE, Li		Model 1.5 requires QA01768 Enhanced Zone Bank Operation <a href="#">SRX 2200 (AN), APX 6000 (AN), and all APX 7000 models</a> <a href="#">Discontinued by manufacturer</a>	
	APX 7000	1.5, 3.5, XE			
	APX 8000	2.5, 3.5, XE, H, HXE			
	APX N30	2, 3			DES encryption & OTAR not supported by this model <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO DES ENCRYPTION LIMITATIONS</b>
	APX N50	2, 3			
	APX N70	4.5	R05.00.00	Touchless Encryption Key Provisioning supported by MPSCS on N70/Next models	
	APX Next	4.5, XE, XN	R08.00.00	<i>Radio Central programming not supported until further notice</i> <a href="#">APX Next XN NFPA 1802 Compliant</a>	



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## Current Portable Radio Models – Full Support Available

Portable Radios				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">JVCKenwood / EF Johnson Viking</a>	VP5430	F2, F3	v8.44.10.49	Not approved for DE31 DES only hardware encryption option
	VP6430			VP6430 Discontinued by manufacturer
	VP8000		v8.44.10.64	
<a href="#">JVCKenwood</a>	NX-5400	K2, K3	v5.23	Not approved for TDMA / OTAR / IV&D / DES 4 Keys <b>NOT RECOMMENDED FOR WAYNE COUNTY / REGION 2 AREA DUE TO ARC4 ENCRYPTION LIMITATIONS</b>
	TK-5430			TK/NX models Discontinued by manufacturer
<a href="#">L3Harris</a>	XL-45P	Limited and Full Keypad  851-870MHz International version only	R19C01.0312	XL-45P and XL-150P not approved for encryption use <b>XL-45P AND XL-150P NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO SINGLE ENCRYPTION KEY LIMITATIONS</b>
	XL-95P			
	XL-150P			
	XL-185P			
	XL-200P			
	XL-400P			<a href="#">XL-400P NFPA 1802 Compliant</a>
<a href="#">Tait Communications</a>	TP9400	9455, 9460	v3.04.08	Not approved for TPAS053 Single DES Encryption and TPAS109 Single Privacy Key options
	TP9600	9655, 9660		
	TP9800	9855, 9860 9865, 9870 9875, 9880		
<a href="#">BK Technologies</a>	KNG2-P800	N/A	v5.7.12	KNG2 Not approved for TDMA / OTAR / IV&D KNG2 Discontinued by manufacturer
	BKR-9000	2.5, 3.5 only	v5.10.43	<b>NOT RECOMMENDED FOR WAYNE COUNTY / REGION 2 AREA DUE TO ARC4 ENCRYPTION LIMITATIONS</b>



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Current Mobile Radio Models – Full Support Available

Mobile Radios				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">Motorola Solutions</a>	APX 1500	O2	R35.00.00	DES encryption & OTAR not supported by this model <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO DES ENCRYPTION LIMITATIONS</b>
	APX 4500	O2, O5, E5, Li		
	APX 6500	O2, O3, O5, O7, O9, E5, Li		
	APX 7500	O2, O3, O5, O7, O9, E5, Consolette		<a href="#">APX 7500 Discontinued by manufacturer</a>
	APX 8500			
<a href="#">JVCKenwood / EF Johnson Viking</a>	VM5930	KCH-19 KCH-20 KCH-21	v8.44.10.55	
	VM6930			
	VM7930			
	VM8000		V8.44.10.58	
<a href="#">JVCKenwood</a>	NX-5900		v5.23	Not approved for TDMA / OTAR / IV&D / DES 4 Keys <b>NOT RECOMMENDED FOR WAYNE COUNTY / REGION 2 AREA DUE TO ARC4 ENCRYPTION LIMITATIONS</b> TK/NX models Discontinued by manufacturer
	TK-5930			
<a href="#">L3Harris</a>	XL-185M	851-870MHz International version only	R19C01.0312	Requires YRXL-PL9F P25 Conventional Fallback option
	XL-200M			
<a href="#">Tait Communications</a>	TM9400	9455, 9457	v3.04.08	Not approved for TPAS053 Single DES Encryption and TPAS109 Single Privacy Key options
<a href="#">BK Technologies</a>	KNG-M800	SCH, HCH	v5.7.12	Not approved for TDMA / OTAR / IV&D <b>NOT RECOMMENDED FOR WAYNE COUNTY / REGION 2 AREA DUE TO ARC4 ENCRYPTION LIMITATIONS</b>
<a href="#">Technisonic Communications</a>	TDFM-9000 series	All versions	R35.00.00	Aircraft radio model based on Motorola APX 8000 hardware platform



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Current Pagers, Dispatch Consoles, and Encryption Keyloaders – Full Support Available

Paging Receivers				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">Unication</a>	G4 / G5	700/800 MHz	v2.02	DES/AES encryption not approved or supported by MPSCS for these devices

System Integrated Dispatch Consoles				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">Motorola Solutions</a>	MCC7500	N/A	2021.2	Not approved for off-network use All consoles require ARC4 (ADP), DES-OFB and AES256 encryption algorithms <i>*Software-based encryption not supported</i>
	MCC7500e			
	MCC7500e	Off Network with Proxy		All consoles require ARC4 (ADP), DES-OFB and AES256 encryption algorithms <i>*Software-based encryption not supported</i>

Encryption Keyloaders						
Manufacturer	Model	Version	Security Adapter Version	OS Version	HSM Version	Additional Information
<a href="#">Motorola Solutions</a>	KVL4000	R1.3.5000.243	R2.7.30	N/A	N/A	KVL4000 discontinued by manufacturer Requires ARC4 (ADP), DES-OFB, and AES256 algorithms
	KVL5000	R01.08.01.00	N/A	R01.08.01	R50.7.10	



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## End of Life “Legacy” Portable Radio Models – Limited Support Available

This table contains radios which are considered end of life “legacy models.” These models no longer have manufacturer support, and/or lack necessary functionality required to support the growth of MPSCS and ongoing interoperability and encryption standardization efforts.

**Effective January 1<sup>st</sup>, 2024, these legacy models will NO LONGER be eligible as “NEW RADIO ADDS” to MPSCS for ANY REASON or “INTER-AGENCY TRANSFERS,”** when advanced functionality is required.

*Advanced functionality is defined as, but not limited to TDMA, IV&D, and encryption.*

***ALL Inter-agency transfers are REQUIRED to meet the current minimum MPSCS specifications at the time of transfer, prior to approval of the transfer.***

MPSCS RPU will continue to honor reprogramming requests for these legacy models if, software support is available under DTMB security policies, and the software is supported by the manufacturer to allow customers time to coordinate life-cycle replacements.

It is the intent of MPSCS RPU to **cease all programming of these legacy models by January 1<sup>st</sup>, 2026**. Agencies may continue to utilize these legacy models on MPSCS as programmed after this date; however, MPSCS would no longer provide programming support on these models thereafter.

It is recommended to begin planning for life-cycle replacement as soon as possible.

Portable Radios				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">Motorola Solutions</a>	XTS-2500 (BN)	2, 3	R20.50.10	TDMA not supported by this model <a href="#">Discontinued by manufacturer</a>
	XTS-5000			
<a href="#">JVCKenwood / EF Johnson</a> <a href="#">Viking</a>	VP600	F2, F3	v8.30.16.57	Not approved for TDMA / OTAR / IV&D <a href="#">Discontinued by manufacturer</a>
	VP900			Not approved for TDMA / OTAR / IV&D <a href="#">Discontinued by manufacturer</a>
<a href="#">L3Harris</a>	XG-15P	Limited & Full Keypad	R06T02	Not approved for TDMA / OTAR / IV&D XG-15P Not approved for encryption use <b><i>XG-15P NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO SINGLE ENCRYPTION KEY LIMITATIONS</i></b> <a href="#">Discontinued by manufacturer</a>
	XG-25P			
	XG-75P			
	XG-100P			



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## End of Life “Legacy” Portable Radio Models – Limited Support Available

Portable Radios				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">BK Technologies</a>	KNG-P800	N/A	v5.7.10	Not approved for TDMA / OTAR / IV&D / Encryption <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE DUE TO ENCRYPTION LIMITATIONS</b> Discontinued by manufacturer
<a href="#">Icom</a>	F7040	S, T	v4.20 or later	Failsoft not supported by this model Not approved for TDMA / OTAR / IV&D <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE AND WAYNE COUNTY / REGION 2 AREA DUE TO FAILSOFT AND ARC4 ENCRYPTION LIMITATIONS</b>



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## End of Life “Legacy” Mobile Radio Models – Limited Support Available

Mobile Radios				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">Motorola Solutions</a>	XTL-2500	M5	R20.50.10	TDMA not supported by this model <a href="#">Discontinued by manufacturer</a>
	XTL-5000	W3, W4, W5, W7, W9, O3, O5, Consolette		
<a href="#">JVCKenwood / EF Johnson Viking</a>	VM600	SCH, LCH, VCH	v8.30.16.57	Not approved for TDMA / OTAR / IV&D <a href="#">Discontinued by manufacturer</a>
	VM900			Not approved for TDMA / OTAR / IV&D <a href="#">Discontinued by manufacturer</a>
<a href="#">L3Harris</a>	XG-25M	CH-25	R06U02	Not approved for TDMA / OTAR / IV&D Discontinued by manufacturer
	XG-75M	CH-721, HHC-731	R06M03	
	XG-100M	CH-100, CH-721, HHC-731	R06T02	
<a href="#">Icom</a>	F7540	N/A	v4.20 or later	Failsoft not supported by this model Not approved for TDMA / OTAR / IV&D <b>NOT RECOMMENDED FOR PUBLIC SAFETY USE AND WAYNE COUNTY / REGION 2 AREA DUE TO FAILSOFT AND ARC4 ENCRYPTION LIMITATIONS</b>



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Terminated “Legacy” Portable Radio Models – No Support Available

This table contains radios which are functionally end of life “legacy models.” These models have no manufacturer support and have been terminated from MPSCS support. These models are no longer eligible to be reprogrammed; however, they can remain in use as programmed until further notice.

Life-cycle replacement should be considered as soon as possible.

Portable Radios				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">Motorola Solutions</a>	XTS-1500	All	N/A	N/A
	XTS-2500 (AN)			
	XTS-3000			
	ASTRO Saber			
<a href="#">JVCKenwood / EF Johnson</a> <a href="#">Viking</a>	VP400			
	51 series			
	53 series			
	Ascend ES series			
<a href="#">JVCKenwood</a>	TK-5400			
	TK-5410			
<a href="#">L3Harris</a>	P7200 / P7300			
<a href="#">Tait Communications</a>	TP9100			
<a href="#">Thales</a>	Liberty			



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## Terminated “Legacy” Mobile Radio Models – No Support Available

Mobile Radios				
Manufacturer	Model	Version	Minimum Firmware	Additional Information
<a href="#">Motorola Solutions</a>	XTL-1500	All	N/A	N/A
	ASTRO Spectra Plus			
	ASTRO Spectra			
	Spectra			
<a href="#">JVCKenwood / EF Johnson</a> <a href="#">Viking</a>	VM400			
	5100 series			
	5300 series			
<a href="#">JVCKenwood</a>	TK-5910			
<a href="#">L3Harris</a>	M7200/M7300			
<a href="#">Tait Communications</a>	TM9100			



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Minimum Subscriber Radio Specifications – Motorola Solutions

APX models (includes all models) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- H38/G51 SMARTZONE Systems Operation
- Q806/G806 ASTRO Digital Operation
- Q173/G173 SMARTZONE OMNILINK Multizone Operation
- Q361/G361 ASTRO 25 9600 Baud Trunking Systems Operation
- QA00569/GA00244 700/800 MHz
- QA00580/ GA00580 TDMA Operation (recommended for all new radio purchases)
- QA01768 Enhanced Zone Bank (required for SRX 2200, APX 6000, and APX 7000 1.5 models only)

APX models (includes all models \*EXCEPT APX 900, APX 1000, APX 1500, APX 4000, and APX N30) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- H38/G51 SMARTZONE Systems Operation
- Q806/G806 ASTRO Digital Operation
- Q173/G173 SMARTZONE OMNILINK Multizone Operation
- Q361/G361 ASTRO 25 9600 Baud Trunking Systems Operation
- QA00569/GA00244 700/800 MHz
- QA00580/ GA00580 TDMA Operation (recommended for all new radio purchases)
- QA01768 Enhanced Zone Bank (required for SRX 2200, APX 6000, and APX 7000 1.5 models only)
- **Q667/G193 Advanced Digital Privacy Software**
- **H869/W969 Multikey**
- **Q15 Hardware MACE Encryption Board installed with ADP, DES-OFB, and AES256 algorithms**

\*APX 900, APX 1000, APX 1500, APX 4000, and APX N30 models are not approved when encryption is required.

\*\*APX models that have hardware MACE encryption boards without ADP, DES, and AES algorithms installed are not approved when encryption is required.



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Minimum Subscriber Radio Specifications – Motorola Solutions

XTS/XTL models (*includes all models*) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- H38/G51 SMARTZONE Systems Operation
- Q806/G806 ASTRO Digital Operation
- Q173/G173 SMARTZONE OMNILINK Multizone Operation
- Q361/G361 ASTRO 25 9600 Baud Trunking Systems Operation
- H14/G114 Enhanced Digital ID Display

XTS/XTL models (*includes all models*) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- H38/G51 SMARTZONE Systems Operation
- Q806/G806 ASTRO Digital Operation
- Q173/G173 SMARTZONE OMNILINK Multizone Operation
- Q361/G361 ASTRO 25 9600 Baud Trunking Systems Operation
- H14/G114 Enhanced Digital ID Display
- **Q667/G193 Advanced Digital Privacy Software**
- **H869/W969 Multikey**
- **Hardware UCM Encryption Board Installed with ADP, DES-OFB, and AES256 algorithms**

*\*XTS/XTL models that have hardware UCM encryption boards without ADP, DES, and AES algorithms installed are not approved when encryption is required.*



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Minimum Subscriber Radio Specifications – JVCKenwood / EF Johnson

Viking VPx000/VMx000 series (*includes all models*) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- 8322000002 P25 Conventional
- 8322000005 P25 Phase 1 Trunking
- 8322000006 P25 Phase 2 TDMA (*recommended for all new radio purchases*)

Viking VPx000/VMx000 series (*includes all models EXCEPT VP5430*) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- 8322000002 P25 Conventional
- 8322000005 P25 Phase 1 Trunking
- 8322000006 P25 Phase 2 TDMA (*recommended for all new radio purchases*)
- **8323000004 DES-OFB and AES256 (*includes Multikey*)**
- **8323000005 ARC4 Encryption**

Viking VP5430 model when **ENCRYPTION IS REQUIRED**

Minimum required options:

- 8322000002 P25 Conventional
- 8322000005 P25 Phase 1 Trunking
- 8322000006 P25 Phase 2 TDMA (*recommended for all new radio purchases*)
- **KWD-AE30K Encryption Hardware Module**
- **8323000004 DES-OFB and AES256 (*includes Multikey*)**
- **8323000005 ARC4 Encryption**



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Minimum Subscriber Radio Specifications – JVCKenwood / EF Johnson

Viking VPx00/VMx00 series (*includes all models*) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- 8322000002 P25 Conventional
- 8322000005 P25 Phase 1 Trunking

Viking VPx00/VMx00 series (*includes all models*) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- 8322000002 P25 Conventional
- 8322000005 P25 Phase 1 Trunking
- **8323000004 DES-OFB and AES256 (*includes Multikey*)**
- **8323000005 ARC4 Encryption**

Kenwood NX/TK series (*includes all models*) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- KWD-5100CV P25 Conventional
- KWD-5101TR P25 Phase 1 Trunking
- KWD-5102TR P25 Phase 2 TDMA (*recommended for all new radio purchases*)

Kenwood NX/TK series (*includes all models*) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- KWD-5100CV P25 Conventional
- KWD-5101TR P25 Phase 1 Trunking
- KWD-5102TR P25 Phase 2 TDMA (*recommended for all new radio purchases*)
- **KWD-AE31K Encryption Hardware Module DES-OFB & AES256 (*includes Multikey*)**
- **KWD-5107EE ARC4 Encryption**



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Minimum Subscriber Radio Specifications – L3Harris

XL series (includes all models) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- YRXL-PKGPT P25 Phase 1 Trunking
- YRXL-PL4F P25 Phase 2 TDMA Trunking (recommended for all new radio purchases)
- YRXL-PL9F P25 Conventional Fallback (required for Motorola Failsoft support)

XL series (includes all models \*EXCEPT XL-45P and XL-150P) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- YRXL-PKGPT P25 Phase 1 Trunking
- YRXL-PL4F P25 Phase 2 TDMA Trunking (recommended for all new radio purchases)
- YRXL-PL9F P25 Conventional Fallback (required for Motorola Failsoft support)
- **YRXL-PKG8F DES-OFB & AES256 Encryption (includes Multikey)**
- **YRXL-PL8Y ARC4 Encryption Lite**

XG series (includes all models) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- Option 33 P25 Common Air Interface (CAI) Standard
- Option 39 P25 Phase 1 Trunking

XG series (includes all models \*EXCEPT XG-15P) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- Option 33 P25 Common Air Interface (CAI) Standard
- Option 39 P25 Phase 1 Trunking
- **Option 14 DES-OFB Encryption**
- **Option 37 AES256 Encryption**
- **Option 61 ARC4 Encryption Lite**

*\*XL-45P, XL-150P, and XG-15P models are not approved when encryption is required.*



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Minimum Subscriber Radio Specifications – Tait Communications

TP/TM series (*includes all models*) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- TPAS050 P25 Common Air Interface
- TPAS055 P25 Phase 1 Trunking
- TPAS091 P25 Phase 2 TDMA (*recommended for all new radio purchases*)

TP/TM series (*includes all models*) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- TPAS050 P25 Common Air Interface
- TPAS055 P25 Phase 1 Trunking
- TPAS091 P25 Phase 2 TDMA (*recommended for all new radio purchases*)
- **TPAS057 DES Encryption**
- **TPAS058 AES Encryption**
- **TPAS102 ARC4 Encryption**

\* *TPAS053 Single DES Encryption and TPAS109 Single Privacy Key features are not supported by MPSCS*



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

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## Minimum Subscriber Radio Specifications – BK Technologies

BKR-9000 series (*includes all models*) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- BKR0579 P25 Phase 1 Trunking
- BKR0593 P25 Phase 2 Trunking (*recommended for all new radio purchases*)

BKR-9000 series (*includes all models*) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- BKR0579 P25 Phase 1 Trunking
- BKR0593 P25 Phase 2 Trunking (*recommended for all new radio purchases*)
- BKR0574 AES256 Encryption (*includes ARC4, DES-OFB, and Multikey*)

KNG/KNG2 series (*includes all models*) when **ENCRYPTION IS NOT REQUIRED**

Minimum required options:

- KZA0579 P25 Phase 1 Trunking

KNG/KNG2 series (*includes all models*) when **ENCRYPTION IS REQUIRED**

Minimum required options:

- KZA0579 P25 Phase 1 Trunking
- KZA0577 DES-OFB and AES256 Encryption (*includes ARC4 encryption and Multikey*)

*\*BK Technologies radios are incompatible for MPSCS encryption interoperability standards within region 2 / Wayne County area due to ARC4 encryption limitations; therefore, these radios are not recommended for any public safety users in that geographical area.*



# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

*Updated April 11, 2025*

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# Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders

*Updated April 11, 2025*

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