



ALPENA COUNTY SHERIFF'S OFFICE

Sheriff Erik W. Smith Undersheriff Cash J. Kroll
4900 M32 W, Alpena, Michigan 49707

Phone (989) 354-9830 · Fax (989) 340-1008 · www.alpenasheriff.com

Memo

October 6, 2023

To: Courts & Public Safety Committee

From: Erik Smith, Sheriff

Ref: 800mhz Radio Replacement

Recently while getting some of our current 800 MHz radios programmed and up on the MPSCS system (State of Michigan Radio System), we've learned that our current radios will no longer be supported by Motorola. Additionally, they can no longer be added to the MPSCS system after Jan. 1, 2024 and no longer re-programmed after Jan. 1, 2026.

I'm requesting that this memo be placed on the next Courts & Public Safety Committees' agenda to discuss the radio situation.

I'm currently seeking quotes from three different manufactures to present at the meeting.

Respectfully,

Erik Smith, Sheriff



Approved Subscriber Radio End of Life Notification

MPSCS announces the end-of-life notification for previously approved subscriber radio models, noted as “*legacy models*.” These identified models lack support for the growth of MPSCS and ongoing interoperability and encryption standardization efforts.

Several of these subscriber radios began production life in 2002 and have been end-of-life for manufacturer support and ineligible for firmware enhancements since 2014. Several of these models cannot support the minimum number of channels required to maintain a standard statewide interoperability templates, nor can they support any additional growth of MPSCS. Additionally, these models cannot support encrypted interoperability, since they can no longer be upgraded to support MPSCS recommended encryption algorithms ARC4 (*ADP*), DES-OFB, and AES-256 at a hardware level necessary to maintain interoperability.

Effective January 1st, 2024, the following 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. Please see the [current approved radio list](#) for minimum subscriber radio requirements.

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 1st, 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.

Legacy Models Affected	
Portables:	Mobiles:
Motorola XTS-2500	Motorola XTL-2500
Motorola XTS-5000	Motorola XTL-5000
EF Johnson Viking VP600	EF Johnson Viking VM600
EF Johnson Viking VP900	EF Johnson Viking VM900
L3Harris XG-15P	L3Harris XG-25M
L3Harris XG-25P	L3Harris XG-75M
L3Harris XG-75P	L3Harris XG-100M
L3Harris XG-100P	Tait TM9100
Tait TP9100	
BK Technologies KNG-P800	

If there are any questions concerning this advisory notice, please contact the MPSCS Radio Programming Unit:

Phone: 517-333-2720

Email: MPSCS-RPU@michigan.gov

Reference Links:

[Approved Subscriber Radios, Pagers, Dispatch Consoles, and Encryption Keyloaders](#)

[Approved Customer Programming Software & Recommended Firmware Versions](#)

[Minimum Subscriber Radio Encryption Recommendations](#)

LIFECYCLE SUPPORT NOTICE

"AN MODEL" APX™ 6000, APX 6000Li, APX 6000XE, AND SRX2200

OVERVIEW

The above-named model subscriber radios have been canceled as of December 31, 2016.

Motorola Solutions will extend support for the legacy radio models through December 31, 2023. All products will be supported on a commercially reasonable effort after the end of the support period solely at Motorola's discretion.

Enhanced models with similar features, functionalities and options but with additional new hardware and software features are available and listed below.

APX 6000 MODELS

LEGACY RADIO MODEL	DESCRIPTION	ENHANCED RADIO MODEL
H98UCD9PW5AN, H98UCD9PW5_N	APX 6000 7/800 MHZ MODEL 1.5 PORTABLE	H98UCD9PW5BN
H98UCF9PW6AN, H98UCF9PW6_N	APX 6000 7/800 MHZ MODEL 2.5 PORTABLE	H98UCF9PW6BN
H98UCH9PW7AN, H98UCH9PW7_N	APX 6000 7/800 MHZ MODEL 3.5 PORTABLE	H98UCH9PW7BN
H98KGD9PW5AN, H98KGD9PW5_N	APX 6000 VHF MHZ MODEL 1.5 PORTABLE	H98KGD9PW5BN
H98KGF9PW6AN, H98KGF9PW6_N	APX 6000 VHF MHZ MODEL 2.5 PORTABLE	H98KGF9PW6BN
H98KGH9PW7AN, H98KGH9PW7_N	APX 6000 VHF MHZ MODEL 3.5 PORTABLE	H98KGH9PW7BN
H98QDD9PW5AN, H98QDD9PW5_N	APX 6000 UHF R1 MODEL 1.5 PORTABLE	H98QDD9PW5BN
H98QDF9PW6AN, H98QDF9PW6_N	APX 6000 UHF R1 MODEL 2.5 PORTABLE	H98QDF9PW6BN
H98QDH9PW7AN, H98QDH9PW7_N	APX 6000 UHF R1 MODEL 3.5 PORTABLE	H98QDH9PW7BN
H98SDD9PW5AN, H98SDD9PW5_N	APX 6000 UHF R2 MODEL 1.5 PORTABLE	H98SDD9PW5BN
H98SDF9PW6AN, H98SDF9PW6_N	APX 6000 UHF R2 MODEL 2.5 PORTABLE	H98SDF9PW6BN
H98SDH9PW7AN, H98SDH9PW7_N	APX 6000 UHF R2 MODEL 3.5 PORTABLE	H98SDH9PW7BN

OPTION	DESCRIPTION
QA02006	ENH: APX 6000XE RUGGED RADIO
QB11	ENH: LI DIGITAL CONVENTIONAL
QA02829	ENH: LI ANALOG CONVENTIONAL
Q443	ENH: LI ANALOG 3600 TRUNKING
QA02756	ENH: LI 9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING
QA02812	ENH: LI P25 9600 BAUD TRUNKING W/ INTEROPERABILITY



MOTOROLA SOLUTIONS

SRX2200 MODELS

LEGACY RADIO MODEL	DESCRIPTION	ENHANCED RADIO MODEL
H99UCD9PW5AN, H99UCD9PW5_N	SRX2200 7/800 MHZ MODEL 1.5 PORTABLE	H99UCD9PW5BN
H99UCH9PW7AN, H99UCH9PW7_N	SRX2200 7/800 MHZ MODEL 3.5 PORTABLE	H99UCH9PW7BN
H99KGD9PW5AN, H99KGD9PW5_N	SRX2200 VHF MHZ MODEL 1.5 PORTABLE	H99KGD9PW5BN
H99KGH9PW7AN, H99KGH9PW7_N	SRX2200 VHF MHZ MODEL 3.5 PORTABLE	H99KGH9PW7BN
H99QDD9PW5AN, H99QDD9PW5_N	SRX2200 UHF R1 MODEL 1.5 PORTABLE	H99QDD9PW5BN
H99QDH9PW7AN, H99QDH9PW7_N	SRX2200 UHF R1 MODEL 3.5 PORTABLE	H99QDH9PW7BN

OPTION	DESCRIPTION
H553	ADD: ULTRA LOW POWER RADIO TRIGGER

CONTACT INFORMATION

If you have specific questions regarding this notification, please contact your Motorola Solutions Account Representative.



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2017 Motorola Solutions, Inc. All rights reserved 07-2017



XTL 5000 P25 MOBILE RADIOS

INTENT-TO-CANCEL NOTICE

OVERVIEW

The purpose of this notification is to inform ASTRO 25 Subscriber owners of a cancellation of the XTL 5000 mobile radio models on November 30, 2013. It is recommended that last time purchases be considered at this time to cover anticipated or planned customer expansion and lifetime spare units.

XTL 5000 Last Order Entry: October 31, 2013

All XTL 5000 ECAT (Electronic Price Pages) will be pulled from visibility no later than the second week of November 2013.

XTL 5000 Last Customer Scheduled Ship Date: November 30, 2013

(Schaumburg factory (SCOG))

No customer ship dates will be scheduled after this date.

XTL 5000 Last Field Service 5 years Support to conclude: December 31, 2018

MODELS/ OPTIONS CANCELLATION ROLLOUT

LISTED BELOW ARE THE XTL 5000 MODELS -

RADIO MODEL	FREQUENCY	WATT	OUTPUT	DESCRIPTION	APC
M20URS9PW1AN	7/8 (764-870)	10-35 Watt	MID	XTL 5000 MOBILE 7/8 MHZ MID	500
M20QSS9PW1AN	UHFR1 (380-470)	10-40 Watt	MID	XTL 5000 MOBILE UHFR1 MID	585
M20QTS9PW1AN	UHFR1 (380-470)	25-110 Watt	HIGH	XTL 5000 MOBILE UHFR1 HIGH	585
M20SSS9PW1AN	UHFR2 (450-520)	10-45 Watt	MID	XTL 5000 MOBILE UHFR2 MID	585
M20KSS9PW1AN	VHF (136-174)	10-50 Watt	MID	XTL 5000 MOBILE VHF MID	585
M20KTS9PW1AN	VHF (136-174)	25-110 Watt	HIGH	XTL 5000 MOBILE VHF HIGH	585
M20WRS9PW1AN	900 (896-941)	10-30 Watt	MID	XTL 5000 MOBILE 900 MHZ MID	585

NOTE: There is no dedicated accessory APC for this model, or Government Services Administration (GSA) requirements. There are no accessories being cancelled with this Intent to Cancel.

REPLACEMENT PRODUCT

The APX7500 will replace the XTL 5000 and is currently available for order. This premier mobile is equipped with leading technology for the most demanding conditions and is ideal for agencies requiring multiband interoperability and future expandability. Another alternative replacement solution to the XTL 5000 is the APX 6500 which is also currently available for order. The APX 6500 single-band P25 mobile supports the O5 and O3 control heads and offers multiple installation configurations in an easy to install design.

LISTED BELOW ARE THE APX 7500 MODELS -

RADIO MODEL	FREQUENCY	WATT	OUTPUT	DESCRIPTION	APC
M30URS9PW1AN	7/8 (764-870)	10-35 Watt	MID	APX 7500 MOBILE 7/8 MHZ MID	656
M30QSS9PW1AN	UHFR1 (380-470)	10-40 Watt	MID	APX 7500 MOBILE UHFR1 MID	656
M30QTS9PW1AN	UHFR1 (380-470)	25-110 Watt	HIGH	APX 7500 MOBILE UHF R1 HIGH	656
M30SSS9PW1AN	UHFR2 (450-520)	10-45 Watt	MID	APX 7500 MOBILE UHFR2 MID	656
M30KSS9PW1AN	VHF (136-174)	10-50 Watt	MID	APX 7500 MOBILE VHF MID	656
M20KTS9PW1AN	VHF (136-174)	25-110 Watt	HIGH	APX 7500 MOBILE VHF HIGH	656
M30TSS9PW1AN	NA	NA	MID	APX 7500 MOBILE DUAL BAND MID	656
M30TXS9PW1AN	NA	NA	HIGH	APX 7500 MOBILE DUAL BAND HIGH	656

LISTED BELOW ARE THE APX 6500 MODELS -

RADIO MODEL	FREQUENCY	WATT	OUTPUT	DESCRIPTION	APC
M25URS9PW1AN	7/8 (764-870)	10-35 Watt	MID	APX 6500 MOBILE 7/8 MHZ MID	527
M25QSS9PW1AN	UHFR1 (380-470)	10-40 Watt	MID	APX 6500 MOBILE UHFR1 MID	527
M25QTS9PW1AN	VHF (136-174)	10-50 Watt	MID	APX 6500 MOBILE VHF MID	527
M25SSS9PW1AN	UHFR1 (380-470)	25-110 Watt	HIGH	APX 6500 MOBILE UHFR1 HIGH	527
M25KSS9PW1AN	UHFR2 (450-520)	10-45 Watt	MID	APX 6500 MOBILE UHFR2 MID	527
M25KTS9PW1AN	VHF (136-174)	25-110 Watt	HIGH	APX 6500 MOBILE VHF HIGH	527

SERVICE IMPLICATIONS OF CANCELLATION

Aftermarket Product support will be available for XTL 5000 radios via commercially reasonable efforts up to 12/31/2018 through Customer Fulfillment Centers (CFC).

CONTACT INFORMATION

If you have specific questions regarding this notification, please contact -

TERRITORY	CONTACT	PHONE	E-MAIL
T1 - Canada	Patricia Capparelli	954-723-6678	patriciacapparelli@motorolasolutions.com
2 & 3	Jeff Ashton	954-723-3809	jeff.ashton@motorolasolutions.com
4	Danny Sanchez	954-723-3238	danielsanchez@motorolasolutions.com
5	Renata Sardenberg	954-723-4072	rsardenberg@motorolasolutions.com
6 & 7	Michael Costa	954-723-8767	michael.n.costa@motorolasolutions.com
8	Ray Melendez	954-723-3970	r.melendez@motorolasolutions.com
Large Projects	Dax Lopez	954-723-8933	dax.lopez@motorolasolutions.com
Federal Manager	John Ruddy	954-723-3813	ejr003@motorolasolutions.com
State & Local Manager	Janelle Lopez	954-723-8184	janellelopez@motorolasolutions.com

MOTOROLA SOLUTIONS CUSTOMER FULFILLMENT CENTER

In the US and Canada, call 1-800-422-4210

In Latin America, Asia, Middle East, and Europe, call 1-847-538-8023

Federal Inquiries, call 1-800-826-1913



XTS 2500 Models

INTENT-TO-CANCEL NOTICE

OVERVIEW

The purpose of this notification is to inform ASTRO 25 Subscriber Owners of a Cancellation of the XTS 2500 radio models on November 30, 2014. It is recommended that last time purchases be considered at this time to cover anticipated or planned customer expansion and lifetime spare units.

XTS 2500 Last Order Entry: October 31, 2014

All XTS 2500 ECAT (Electronic Price Pages) will be pulled from visibility no later than the second week of November 2014.

XTS 2500 Last Customer Scheduled Ship Date: November 30, 2014

(Schaumburg factory (SCOG))

No customer ship dates will be scheduled after this date.

XTS 2500 Last Field Service 5 years Support to conclude: December 31, 2019

MODELS/ OPTIONS CANCELLATION ROLLOUT

Listed below are the XTS 2500 models (Cancellation Includes "AN, BN, ISR and Rugged" Models) -

Radio Model	Frequency	Watt	Description	APC
H46KDC9PW5_N	VHF (136-174)	1-5 Watt	XTS2500 MDL I PORTABLE VHF	407
H46KDD9PW5_N	VHF (136-174)	1-5 Watt	XTS2500 MODEL 1.5 PORTABLE VHF	407
H46KDF9PW6_N	VHF (136-174)	1-5 Watt	XTS2500 MDL II PORTABLE VHF	407
H46KDH9PW7_N	VHF (136-174)	1-5 Watt	XTS2500 MDL III PORTABLE VHF	407
H46QDC9PW5_N	UHFR1 (380-470)	1-5 Watt	XTS2500 MDL I PORTABLE UHFR1	407
H46QDD9PW5_N	UHFR1 (380-470)	1-5 Watt	XTS2500 MODEL 1.5 UHFR1	407
H46QDF9PW6_N	UHFR1 (380-470)	1-5 Watt	XTS2500 MDL II PORTABLE UHFR1	407
H46QDH9PW7_N	UHFR1 (380-470)	1-5 Watt	XTS2500 MDL III PORTABLE UHFR1	407
H46SDC9PW5_N	UHFR2 (450-520)	1-5 Watt	XTS2500 MDL I PORTABLE UHFR2	407
H46SDD9PW5_N	UHFR2 (450-520)	1-5 Watt	XTS2500 MODEL 1.5 UHFR2	407
H46SDF9PW6_N	UHFR2 (450-520)	1-5 Watt	XTS2500 MDL II PORTABLE UHFR2	407
H46SDH9PW7_N	UHFR2 (450-520)	1-5 Watt	XTS2500 MDL III PORTABLE UHFR2	407
H46UCC9PW5_N	7/8 (764-870)	1-3 Watt	XTS2500 MDL I PORTABLE 700/800	205
H46UCD9PW2_N	7/8 (764-870)	1-3 Watt	XTS2500RB MDL 1.5 PORTABLE 700/800	270
H46UCD9PW5_N	7/8 (764-870)	1-3 Watt	XTS2500 MODEL 1.5 PORTABLE 7/800	205
H46UCF9PW2_N	7/8 (764-870)	1-3 Watt	XTS2500RB MDL II PORTABLE 700/800	270
H46UCF9PW6_N	7/8 (764-870)	1-3 Watt	XTS2500 MDL II PORTABLE 700/800	205
H46UCH9PW2_N	7/8 (764-870)	1-3 Watt	XTS2500RB MDL III PORTABLE 700/800	270



H46UCH9PW7_N	7/8 (764-870)	1-3 Watt	XTS2500 MDL III PORTABLE 700/800	205
H46WCD9PW5_N	900 (896-941)	1-2.5 Watt	XTS2500 MODEL 1.5 PORTABLE 900MHZ	205
H46WCH9PW7_N	900 (896-941)	1-2.5 Watt	XTS2500 MODEL III PORTABLE 900MHZ	205

Note: There is no dedicated accessory APC for this product, or Government Services Administration (GSA) requirements. There are no accessories being cancelled with this Intent to Cancel.

SUGGESTED REPLACEMENT PRODUCTS

The APX 6000/APX 6000XE/APX 6000Li will replace the XTS 2500 and is currently available for order. The APX 6000/APX 6000XE/APX 6000 Li is a smart investment delivering leading edge technology in a lightweight design. Ideal for agencies requiring advanced features in a single band radio. Another alternative replacement solution to the XTS 2500 is the APX 4000. The APX 4000 is currently available for order and the two-knob version will be available for order in Dec 2014. The APX 4000 is a durable and compact product with basic features in an easy to use design. It is ideal for agencies requiring a budget friendly P25 solution.

Please visit InSite - ASTRO 25 Subscriber at a Glance Brochure to learn more about the APX 6000/6000XE/6000Li/4000products. <https://insite.motorolasolutions.com/viewcontent.asp?qv=1&docid=16053>

Listed below are the APX 6000/APX 6000XE/APX 6000Li models -

Radio Model	Frequency	Watt	Description	APC
H98KGD9PW5AN	VHF (136-174)	1-6 Watt	APX 6000 MODEL I PORTABLE	481
H98KGF9PW6AN	VHF (136-174)	1-6 Watt	APX 6000 MODEL II PORTABLE	481
H98KGF9PW7AN	VHF (136-174)	1-6 Watt	APX 6000 MODEL III PORTABLE	481
H98QDD9PW5AN	UHFR1 (380-470)	1-5 Watt	APX 6000 MODEL I PORTABLE	481
H98QDF9PW6AN	UHFR1 (380-470)	1-5 Watt	APX 6000 MODEL II PORTABLE	481
H98QDH9PW7AN	UHFR1 (380-470)	1-5 Watt	APX 6000 MODEL III PORTABLE	481
H98SDD9PW5AN	UHFR2 (450-520)	1-5 Watt	APX 6000 MODEL I PORTABLE	481
H98SDF9PW6AN	UHFR2 (450-520)	1-5 Watt	APX 6000 MODEL II PORTABLE	481
H98SDH9PW7AN	UHFR2 (450-520)	1-5 Watt	APX 6000 MODEL III PORTABLE	481
H98UCD9PW5AN	7/8 (764-870)	1-3 Watt	APX 6000 MODEL I PORTABLE	481
H98UCF9PW6AN	7/8 (764-870)	1-3 Watt	APX 6000 MODEL II PORTABLE	481
H98UCH9PW7AN	7/8 (764-870)	1-3 Watt	APX 6000 MODEL III PORTABLE	481

Listed below are the APX 4000models -

Radio Model	Frequency	Watt	Description	APC
H51UCF9PW6AN	7/8 (764-870)	1-3 Watt	APX 4000 MODEL II PORTABLE	426
H51UCH9PW7AN	7/8 (764-870)	1-3 Watt	APX 4000 MODEL III PORTABLE	426
H51KDF9PW6AN	VHF (136-174)	1-6 Watt	APX 4000 MODEL II PORTABLE	426
H51KDH9PW7AN	VHF (136-174)	1-6 Watt	APX 4000 MODEL III PORTABLE	426
H51QDF9PW6AN	UHFR1 (380-470)	1-5 Watt	APX 4000 MODEL II PORTABLE	426
H51QDH9PW7AN	UHFR1 (380-470)	1-5 Watt	APX 4000 MODEL III PORTABLE	426
H51SDF9PW6AN	UHFR2 (450-520)	1-5 Watt	APX 4000 MODEL II PORTABLE	426
H51SDH9PW7AN	UHFR2 (450-520)	1-5 Watt	APX 4000 MODEL III PORTABLE	426



H51WCF9PW6AN	900 (896-941)	1-2.5 Watt	APX 4000 MODEL II PORTABLE	426
H51WCH9PW7AN	900 (896-941)	1-2.5 Watt	APX 4000 MODEL III PORTABLE	426

SERVICE IMPLICATIONS OF CANCELLATION

Aftermarket Product support will be available for XTS 2500 radios via commercially reasonable efforts up to 12/31/2019 through Customer Fulfillment Centers (CFC).

CONTACT INFORMATION

If you have specific questions regarding this notification, please contact -

Territory	Contact	Phone	E-mail
Federal Manager	John Ruddy	954-723-3813	ejr003@motorolasolutions.com
T1 - Canada	Patricia Capparelli	954-723-6678	patriciacapparelli@motorolasolutions.com
2 & 3	Jeff Ashton	954-723-3809	jeff.ashton@motorolasolutions.com
4	Renata Sardenberg	954-723-4072	rsardenberg@motorolasolutions.com
5	Dane Windsor	954-723-3449	Dane.windsor@motorolasolutions.com
6 & 7	Michael Costa	954-723-8767	michael.n.costa@motorolasolutions.com
8	Ray Melendez	954-723-3970	r.melendez@motorolasolutions.com
Large Projects	Dax Lopez	954-723-8933	dax.lopez@motorolasolutions.com
State & Local Manager	Janelle Lopez	954-723-8184	janellelopez@motorolasolutions.com

Motorola Solutions Customer Fulfillment Center

In the US and Canada, call 1-800-422-4210

In Latin America, Asia, Middle East, and Europe, call 1-847-538-8023

Federal Inquiries, call 1-800-826-1913