

	Approved Equipment List		
	Title / Subject <u>SIRN Approved Equipment List</u>	Effective Date 09/01/2011	Revision Date 10/12/16
	<p>Moved Kenwood Level-4 radios to originally approved levels. Operational range of all SIRN radios from this date forward must operate in 400-470 MHz range.</p>		

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1. Introduction:

- 1.1.** In an effort to maintain system integrity and proper operation of the Statewide Interoperable Radio Network (SIRN), the Statewide Interoperability Executive Committee (SIEC) has determined the need to test and maintain a list of radios approved for operation on the SIRN. This list will be updated when new radios are added or reevaluated. Radios not listed as Approved Equipment herein cannot be activated on the network.

2. Levels:

- 2.1** Per FCC licensing, mobile unit output power is limited to 40 watts.
- 2.2** Site equipment (such as new sites or related equipment) will be evaluated on a case by case basis. Parties interested in purchasing a new site or spare site equipment should contact the Statewide Interoperability Coordinator (SWIC) to begin the process.
- 2.3** All equipment must be evaluated and approved as per the Subscriber Unit Equipment Test SOP prior to being placed on the SIRN Approved Equipment List.
- 2.4** The approved radios will be broken down in the following format utilizing 4 Levels;
- ❖ **Level 1** – Radios in this section shall meet or exceed ALL of the below criteria
 - Operational Frequency Range of 400-470 MHz
 - Capable of AES Encryption with Multi-Key
 - At Least 1000 Channels
 - Capable of Mixing Conventional and Trunking in the Same Zone
 - Capable of Scanning Conventional and Trunking in the Same List
 - Capable of TDMA (Phase 2) Operation

- ❖ **Level 2** – Radios in this section shall meet or exceed ALL of the below criteria:
 - Operational Frequency Range of 400-470 MHz
 - Capable of AES Encryption with Multi-Key
 - 512 or More Channels
 - Capable of Mixing Conventional and Trunking in the Same Zone
 - Capable of Scanning Conventional and Trunking in the Same List

- ❖ **Level 3** – Radios in this section will meet 1 or more of the below criteria:
 - Operational Frequency Range of 400-470 MHz
NOTE: Only radios approved prior to 04/12/16 with an operating range other than 400-470 MHz are authorized for operation on SIRN.
 - NOT Capable of AES Encryption with Multi-Key
 - LESS than 512 Channels
 - NOT Capable of Mixing Conventional and Trunking in the Same Zone
 - NOT Capable of Scanning Conventional and Trunking in the Same List
 - NOT Capable of operator programmable scan list

- ❖ **Level 4** – Special Circumstance Radios (Not Recommended For Purchase)
Special Note: Radios in this Level have significant limitations or operational concerns when operating on the system. Please check the notes to determine if the limitations will affect your planned operations.

Note to Vendors, the SIEC will only test and approve radios based on the data available from the vendors and the configuration of the radio sent for testing. Please submit properly equipped radios and proper documentation with the radios for testing. The SIEC will not incur any expense for the evaluation of radios or be limited by time on software provided.

Note to users, the Approved Equipment List is based on properly equipped radios. Due to different options available from various manufacturers please ensure the radio is properly configured for operation on the SIRN.

3. Approved Equipment:

3.1 Level 1 – [\(Level criteria above\)](#)

❖ Portables

- EF Johnson VP600
- Kenwood NX-5300
- Kenwood TK-5330
- Harris XL200P
- Motorola APX-4000 (Range 1 Only) **Firmware 14.05.00 or above**
- Motorola APX-6000 (Range 1 Only) **Firmware 14.05.00 or above**
- Motorola APX-7000 (Range 1 Only) **Firmware 14.05.00 or above**
- Motorola APX-8000

❖ Mobiles

- Kenwood NX-5800
- Kenwood TK-5830
- Motorola APX-4500 (Range 1 Only) **Firmware 14.05.00 or above**
- Motorola APX-6500 (Range 1 Only) **Firmware 14.05.00 or above**
- Motorola APX-7500 (Range 1 Only) **Firmware 14.05.00 or above**

3.2 Level 2 – [\(Level criteria above\)](#)

❖ Portables

- Bendix-King KNG-P400
- EF Johnson 51xx Series
- Harris XG-25
- Harris XG-75P
- Harris Unity XG-100
- Harris P7300
- Kenwood TK-5310
 - Version 2, **Firmware 4.43 (Checksum 8226), Software 8.23 & 2016 Programming Settings**
 - Version 3, **Firmware 6.10 (Checksum 0ADA), Software 8.23 & 2016 Programming Settings**
- Motorola XTS-2500 (Range 1 Only)
- Motorola XTS-5000 (Range 1 Only)
- Tait TP91xx

❖ Mobiles

- Bendix-King KNG-400M
- EF Johnson 53xx Series
- Harris XG-25
- Harris Unity XG-100M
- Harris M7300
- Kenwood TK-5810
 - Version 2, **Firmware 4.43 (Checksum AFF2), Software 8.23 & 2016 Programming Settings**
 - Version 3, **Firmware 6.10 (Checksum 0ADA), Software 8.23 & 2016 Programming Settings**
- Motorola XTL-2500 (Range 1 Only)

- Motorola XTL-5000 (Range 1 Only)
- Tait TM91xx

3.3 Level 3 – [\(Level criteria above\)](#)

❖ Portables

- ICOM P9021
 - Not capable of operator programmable scan list
- Harris P3300
 - No Encryption
- Kenwood TK-5320 **Firmware 2.18 (Checksum 33E4), Software 2.33 & 2016 Program Settings**
 - Will not mix Conventional and Trunking in the same Zone; and
 - Cannot Scan Conventional and Trunking in the same List
- Motorola APX-1000 (Range 1 Only) **Firmware 14.05.00 or above**
 - Only 512 Channels;
 - Not capable of multi-key Encryption; and
 - No AES Encryption
- Motorola XTS-1500 (Range 1 Only)
 - No AES Encryption

❖ Mobiles

- Harris M3300
 - No Encryption
- Kenwood TK-5820 **Firmware 2.18 (Checksum 33E4), Software 2.33 & 2016 Programming Settings**
 - Will not mix Conventional and Trunking in the same Zone; and
 - Cannot Scan Conventional and Trunking in the same List
- Motorola APX-1500 (Range 1 Only) **Firmware 14.05.00 or above**
 - Not capable of multi-key encryption; and
 - No AES Encryption
- Motorola XTL-1500 (Range 1 Only)
 - No AES Encryption

3.4 Level 4 (Special Condition Radios) – [\(Level criteria above\)](#)

Special Note: These radios are Special Condition Radios, Caution Should Be Taken before purchasing these radios. Please read the notes and understand the limitations before purchasing.

❖ Portables

- No radios currently in this level.

❖ Mobiles

- No radios currently in this level.

Note: Most radio manufactures have options when ordering equipment, the tested and approved equipment should be reviewed and the purchaser should ensure that a radio is properly configured for operation on the SIRN before purchasing. Proper Make and Model numbers do not always indicate proper configuration.

4. Previously Approved Equipment:

4.1 Equipment listed in this Section is no longer authorized to be newly activated on the SIRN as of the date being placed into this Section. Equipment with currently assigned Radio ID's and active on the SIRN as of the noted date for each radio may continue to be operated on the SIRN.

4.2 Equipment:

❖ **Portables**

- Harris P5400 (Effective 04/12/16)
 - Frequency range is 450-470)
- Harris XG15P (Effective 04/12/16)
 - Frequency range is 440-512
 - No AES Encryption

❖ **Mobiles**

- No radios currently in this level.