



Homeland Security  
and Emergency Services

# Office of Interoperable & Emergency Communications

## 700 MHz Interoperability Channels and State Channels in New York State

February 23, 2017

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# 700 MHz Interoperability and State Channels

- In New York, 700 MHz Interoperability Channels are administered and coordinated by the State. DHSES OIEC was appointed as coordinating agency.
- NY State approval letter is necessary to license 700 MHz Interoperability channels.
- 700 MHz State channels is a block of 192 paired channels licensed to each State.
- NY State is utilizing channels for fixed sites and tactical operations. Site-by-site licensing is not required for State channels.
- NJ is a heavy user of State channels.
- In RPC 8, licensing of general (former reserve) channels must be done in coordination with NY and NJ.



# 700 MHz Interoperability Channels Distribution





## Adjacent 700 MHz Former Reserve Channels and Interoperability Channels

Reserve/General Channels		Interoperability Channels	
FCC Channel IDs	12.5 kHz Centers MHz	FCC Channel IDs	12.5 kHz Centers MHz
<b>37-39</b>	769.23125	<b>39-40</b>	769.24375
61-62	769.38125	63-64	769.39375
117-118	769.73125	119-120	769.74375
141-142	769.88125	143-144	769.88375
157-158	769.98125	159-160	769.99375
197-198	770.23125	199-200	770.24375
221-222	770.38125	223-224	770.39375
237-238	770.48125	239-240	770.49375
227-278	770.73125	279-280	770.74375
301-302	770.88125	303-304	770.89375
317-318	770.98125	319-320	770.99375
643-644	773.01875	641-642	773.00625
683-684	773.26875	681-682	773.25625
699-700	773.36875	697-698	773.35625
723-724	773.51875	721-722	773.50625
763-764	773.76875	761-762	773.75625
779-780	773.86875	777-778	773.85625
803-804	774.01875	801-802	774.00625
843-844	774.26875	841-842	774.25625
859-860	774.36875	857-858	774.35625
883-884	774.51875	881-882	774.50625
923-924	774.76875	921-922	774.75625
939-940	774.86875	937-938	774.85625

**7CALL50**



# Interference Mitigation

- State administers 700 MHz Interoperability channels (State's approval required for licensing).
- RPC coordinates General channels.
- Coordination between NY State (OIEC) and RPCs (8, 30, 55) during licensing process of Former Reserved (General) channels.
- Channel adjacent to 7CALL50 cannot be used statewide.
- Interference study should be conducted in accordance with most recent RPC plans and guidelines, taking into consideration current channels assignments.
- As of February 23, 2017, the most current assignments are on the DHSES webpage, CAPRAD needs to be revised (for 3 counties)
- To better to accommodate reserve, now gneral, channels applicants, we will consider re-assignment of Interoperability channels for counties where Interoperability channels are not built-out.



# Interference Mitigation (continued)

- There are several State-block channels adjacent to former reserve (general) channels.
- Most current assignments of State channels are uploaded in CAPRAD, we will continue to work with RPCs to keep it up to date.
- Interference study should be conducted in accordance with most recent RPC plans and guidelines utilizing assignments/allocations at the time of the application for former reserve (general) channels.



# Non-Federal National Interoperability Channels

- Governed by the FCC rules 47 C.F.R. Part 90.427 (Precautions against unauthorized operation) and 90.417 (Interstation communication related to imminent safety-of-life).
- Fixed base stations must be licensed for ALL National Interoperability channels.
- Non-Federal Interoperability Channels VCALL10-VTAC14, VTAC33-VTAC38, UCALL40-UCALL43D, 8CALL90-8TAC94D, 7CALL, 7TAC, 7GTAC, 7LAW, 7FIRE, 7MED - can operate on subscriber equipment (mobile, portable) without an individual license. Covered by the FCC “blanket authorization” – licensed by rule.
- LLAW, LFIRE – must be licensed to operate on subscriber equipment. Not covered by the FCC “blanket authorization” – licensed by rule.



# Common Channels

- Common channels are not National Interoperability channels and not governed by the same FCC rules.
- Fixed base stations must be licensed for ALL common channels.
- **Common Channels:** VMED, VFIRE, VLAW, VSAR - must be licensed to operate on subscriber equipment. Not covered by the FCC “blanket authorization”.
- **NYS Common Channels:** NYFIRE, NYLAW1, NYMED - must be licensed to operate on subscriber equipment. Not covered by the FCC “blanket authorization”.



# Contact Information

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