



Oakland County Wireless Integrated Network



***Oakland County Wireless Integrated
Network***

User's Guide Inter-Operability



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CHAPTER 6

Inter-Operability

6.1 Oakland County – Oakland County Sheriff Aviation Unit

The Oakland County Sheriff's Aviation Unit helicopters designated as Air 1 and Air 2 will check on and off duty by utilizing the ALLDISP (All Dispatch) talk group. This notification will be the method to inform all the dispatch centers in the county when a helicopter is in service and available for calls. The Aviation Unit helicopters are able to communicate on all local police and fire dispatch talk groups, regional operations talk groups, and countywide operations talk groups on the radio system.

A. Requesting Aviation Units

1. Dispatch centers will be able to contact the helicopter to request assistance by utilizing the ALLDISP talk group or by contacting the Oakland County Sheriff's Dispatch Center. The requesting dispatch center will advise the helicopter which talk group they are to utilize for communications with the ground units requiring assistance.

6.2 Oakland County – Oakland County Sheriff Marine Unit

The Oakland County Sheriff's Marine Unit will utilize the OS_MAR talk group. Marine Units are able to communicate on all shared regional and countywide talk groups. With the large number of lakes in Oakland County, Marine Units are on patrol in many areas.

B. Requesting Marine Units

1. Dispatch centers will contact the Oakland County Sheriff's Dispatch over talk group ALLDISP to request a Marine Unit. The requesting dispatch center shall designate a shared



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regional or countywide talk group and advise the OCSO. The OCSO will direct the Marine Unit to switch to the designated talk group. It is suggested to utilize a regional talk group in profile S_OPS or N_OPS based upon the location of the requesting dispatch center.

2. ALLDISP is not to be used to request a dive team. The Sheriff's Dispatch Center is to be called to request the Dive Team.

6.3 Interoperability with Radio Systems via Network First

The Oakland County OpenSky digital trunked 800 MHz system is capable of interoperability with radio systems from different radio manufacturers, even if these systems are analog, conventional, or on different frequency bands, utilizing a MA COM product known as NetworkFirst. NetworkFirst consists of a series of Gateways and Digital Voice Unit cards that take audio from these disparate radio systems, digitize it into IP (Internet Protocol) packets, and send it across the OAKNet fiber network.

NetworkFirst does NOT extend the coverage area of any of the systems that are networked together. The OpenSky system is designed to work within Oakland County and may provide coverage for some distance into adjacent counties and cities. This distance will not increase when using an interoperable talk group that is networked to an adjacent system.

Oakland County OpenSky users may utilize specific talk groups for interoperability with three other radio systems: the City of Southfield UHF system, the City of Warren 800 MHz system, and the Michigan Public Safety Communications System (MPSCS). The MPSCS is the radio system used by the Michigan State Police (MSP), other State agencies, and either directly or by interface by several adjacent counties (Genesee, Lapeer, Livingston, Macomb, and the City of Detroit).

Oakland County OpenSky users shall NOT utilize interoperability talk groups on the Warren or MPSCS systems for communications that are only among or between other Oakland County OpenSky users. The use of these talk groups ties up frequencies on both systems and may only be used when one or more radios from the networked system is involved in the conversation or event.



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6.3.1 City of Southfield

The Southfield PSAP will monitor the OakWIN "ALLDISP" and SFLD1 talk groups. The Southfield PSAP may be contacted in the same manner as any other Oakland County PSAPs using this talk group. The Southfield PSAP may patch any Southfield conventional channel to the SFLD1 talk group to provide interoperability.

6.3.2 City of Warren

The OpenSky talk group WARN_1 may be used to contact the Warren PSAP, which will be monitoring this talk group. Oakland County PSAPs immediately adjacent to Warren (i.e., Hazel Park, Madison Heights, and Troy) should also monitor this talk group. This talk group will also appear in all of the Warren police and fire radios for unit-to-unit interoperability without the need for dispatch to initiate a patch (in the Warren radios, this talk group will be called OAK).

The OpenSky talk group WARN_2 is a secondary talk group for interoperability with Warren. This talk group will not be monitored by the Warren PSAP and will not appear in the Warren field units. For Warren to activate this talk group, an Oakland County user or PSAP must contact the Warren PSAP; the Warren PSAP will then "patch" this talk group to an appropriate Warren talk group for the event.

6.3.3 MPSCS

Six talk groups have been established between the OpenSky system and the MPSCS. These talk "paths" have been labeled 63P911, 63MPSC1, 63MPSC2, 63MPSC3, 63MPSC4, and 63MPSC5. One of these talk groups, 63P911, is ready and available at all times for law enforcement, fire, or EMS, and is monitored at the MSP dispatch center in Detroit and by Oakland County PSAPs. 63P911 will appear in all Oakland County OpenSky law enforcement radios and PSAPs, in the MSP radios regularly assigned to Oakland County, and in many consoles in PSAPs of counties adjacent to Oakland.

The remaining five talk paths must be activated as needed by the MSP dispatch in Detroit, or an MPSCS PSAP in an adjacent county, through a telephone call, LEIN message, or radio call on 63P911 requesting



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activation. These talk paths will appear in all Oakland County OpenSky PSAPs, but not in individual radios. Once activated, these talk paths may be patched to the appropriate OpenSky talk group by an Oakland County PSAP and to an appropriate MPSCS talk group by the MSP dispatch center. These remaining five talk paths are available to law enforcement, fire, and EMS for interoperability with MPSCS users.

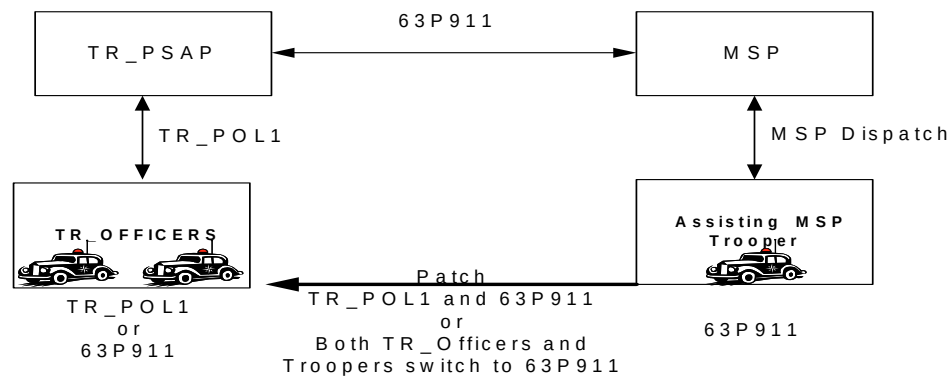
6.3.4 Conventional Channels OakWIN Layout

	"7-TAC 2"	"7-TAC 1"	"I-TAC"	"8-TAC"	"D-TAC"
CH.	Alias	Alias	Alias	Alias	Alias
1	7TRVL70D	7CALL50D	I-CALL	8CALL90	7FTAC1D
2	7TAC75D	7TAC55D	I-CALL D	8CALL90D	7FTAC2D
3	7TAC76D	7TAC56D	I-TAC 1	8TAC91	7FTAC3D
4	7MOB79D	7MOB59D	I-TAC 1D	8TAC91D	7GTAC4D
5	7LAW81D	7LAW61D	I-TAC 2	8TAC92	7GTAC5D
6	7LAW82D	7LAW62D	I-TAC 2D	8TAC92D	7LTAC6D
7	7FIRE83D	7FIRE63D	I-TAC 3	8TAC93	7LTAC7D
8	7FIRE84D	7FIRE64D	I-TAC 3D	8TAC93D	7LTAC8D
9	7MED86D	7MED65D	I-TAC 4	8TAC94	7MTAC9D
10	7MED87D	7MED66D	I-TAC 4D	8TAC94D	7NTAC10D
11	7TRVL70	7CALL50	I-TAC 4D	8TAC94D	7NTAC11D
12	7TAC75	7TAC55	I-TAC 4D	8TAC94D	7NTAC12D
13	7MOB79	7MOB59	I-TAC 4D	8TAC94D	I-TAC 1D
14	7LAW81	7LAW61	I-TAC 4D	8TAC94D	I-TAC 2D
15	7FIRE83	7FIRE63	I-TAC 4D	8TAC94D	I-TAC 3D
16	7MED86	7MED65	I-TAC 4D	8TAC94D	I-TAC 4D



6.3.5 Day-to-Day Police Use of 63P911

The Troy Police Department requests assistance from the Michigan State Police for an accident on I-75. Troy dispatch (TR_PSAP) contacts MSP dispatch on 63P911 and requests assistance. MSP contacts its assisting unit(s) and has them switch to 63P911. Depending on the severity of the situation, TR_PSAP can either patch TRPOL1 to 63P911 or has its units switch to 63P911 to communicate with the responding MSP personnel.



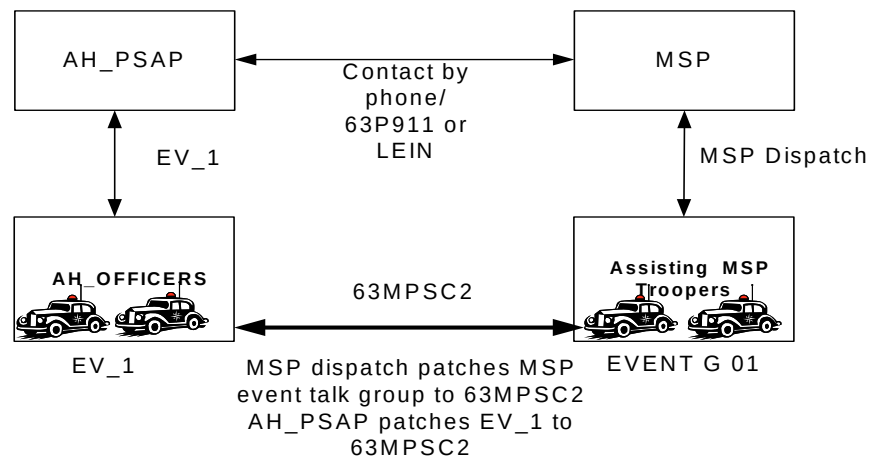


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6.3.6 Use of 63MPSC1 through 63MPSC5

Police Special Event, Auburn Hills Police Department and Michigan State Police

The Auburn Hills Police Department requests assistance from the Michigan State Police on a scheduled special event at the Palace of Auburn Hills. MSP selects one of its talk groups for its personnel and patches that talk group to one of the 63MPSC1-5 talk groups and advises AH_PSAP. AH_PSAP patches their selected special event talk group, such as EV_1, to the same 63MPSC talk group that MSP has selected. MSP and Auburn Hills have interoperability during the event.





6.3.7 Interoperability with Bordering MPSCS Fire Departments

Oakland County department AA requests assistance from a fire department in an adjoining county using the MPSCS. Department AA PSAP contacts the adjoining county PSAP on 63F911 and requests assistance. The adjoining county PSAP dispatches the assisting fire department and advises the responding units to switch to 63F911. The Oakland County unit(s) switches to 63F911 and communicates with the adjoining County unit.

