

January 2022



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OCRACES
Online Meeting
on Microsoft
Teams:
Monday,
January 3, 2022
at 7:30 PM

Orange County Sheriff's Department
Emergency Management Division



Newsletter of the County of Orange Radio Amateur Civil Emergency Service

CRO's Nest

by Ken Bourne, W6HK, OCRACES Chief Radio Officer

Log4j Cyberattack

As we head into 2022 (Happy New Year, by the way!), we see increasing dangers posed by cybercriminals. As responsible RACES members, we need to stay aware of these dangers and take precautions to prevent and combat cyberattacks to our own as well as to other computers that we use in support of our RACES mission. I have covered various aspects of cybersecurity in previous articles, but must now mention a most serious security breach, Log4j, which every RACES member needs to be aware of.

On December 9, 2021, a vulnerability was discovered in a very common section of the popular Log4j computer code and immediately almost all software companies were in a crisis mode, trying to determine how to patch the hole.

Log4j is a code that enables software applications to track past activities. The widely used code is free on the internet and is used by software developers as a logging component. Each time Log4j is triggered to log something new, it tries to analyze that new entry and add it to the record. By simply asking the program to log a line of malicious code, it would execute that code in the process, thus letting cybercriminals take control of servers that are running Log4j.

Log4j is included in the Java programming language, used by such cloud-storage companies as Google, Amazon, and Microsoft, which are the backbone for millions of other apps. Major software manufacturers such as IBM and Oracle are affected, and their programs are used by millions. TVs and security cameras and other devices that you connect to the internet are also at risk to cy-

bercriminals who try to steal information or plant malicious software into your computer systems. Furthermore, the bad guys can simply type a line of malicious code into a public chat box during a video game. They can change their Twitter display names to strings of bad code. The Log4j vulnerability allows cybercriminals to cut past all typical defenses and access the heart of almost any system.

The Cybersecurity & Infrastructure Security Agency (CISA) gave federal civilian agencies a December 24th deadline for patching Log4j. Afterwards, bad guys have probably installed "back doors" or malicious code that remains even after initial Log4j patching. The vulnerability has given ransomware attackers a fresh way to break into government, utility, hospital, industrial, and private computer networks.

How do we, as RACES members, protect our computer systems from this latest attack? To take advantage of the vulnerability, hackers have to deliver malicious code to a service running Log4j, such as by phishing emails, which try to trick you into clicking a link or opening an attachment. Be cautious of emails saying your account has been compromised or your package failed to deliver or to confirm that you placed an order (that you don't remember placing), with a link or attachment to resolve the issue. Other phishing emails include a link for receiving a thank-you gift for paying your telephone bill.

Under the current situation, be sure the apps you use are updated to the most recent versions. Developers will be sending out patches over the coming days to try to fix Log4j issues. It is important to download and install those updates quickly.

800 MHz Channels in Orange County (Part 2)

by Robert Stoffel, KD6DAQ

As RACES members, we are sometimes called upon to operate on public safety radio channels, either from the Orange County Emergency Operations Center (EOC) on Loma Ridge, or in the field with the Control 7 communications response vehicle. In this continuing series, I am sharing information about these radio systems and channels, providing our members with a better understanding on what they are and how they are used here in Orange County.

As most of our members probably know, the 800 MHz spectrum is where all day-to-day communications is handled for our County and City first responders. They utilize the 800 MHz Countywide Coordinated Communications System (CCCS), the trunked radio system shared between the 34 cities and County Law, Fire, Lifeguard, and Public Works agencies. Because we have so many channels and talkgroups in use, it will take several articles to cover everything. This month we take a look at simplex radio channels found in 800 MHz CCCS radios.

The simplex channels discussed in this article are only available in 800 MHz CCCS radios, so, they won't typically be found in other local, State, or Federal agency radios. These simplex channels are only available in 800 MHz CCCS mobile and portable radios, not at dispatch centers, the EOC, or Control One. Nonetheless, RACES members may be asked to monitor or transmit on these channels from Control 7 or at a command post, so it is good to be familiar with them.

The 800 MHz CCCS has discipline-specific simplex channels that are a short range, radio-to-radio mode of communication. The designator TA is always a part of the 800 MHz CCCS simplex channel name.

TA stands for Talkaround, which is another way to say simplex or direct.

The Sheriff's Department has three channels that are only found in OCSD radios. YELLOW-TA (pronounced "Yellow-T-A") is used in day-to-day operations and found in Zones 1, 14, and 15 of all OCSD radios. YELLOW-SP-TA (pronounced "Yellow-S-P-T-A") is a special purpose simplex channel found in Zone 13 of all OCSD radios. SHERIFF-CH-TA (pronounced "Courthouse-T-A") is a simplex channel used at various courthouses and found in Zone 13 of all OCSD radios.

Each City Police Department, plus the District Attorney and Probation departments, each have a unique simplex channel known as GREEN-TA (pronounced "Green-T-A"), found in Zone 1 of the agency radio. Each channel is agency specific, meaning that a Fullerton Police radio selected to GREEN-TA will not communicate with a Buena Park Police radio selected to GREEN-TA.

All City and County Law Enforcement agencies share three simplex channels, allowing for multiple agencies to communicate in simplex mode. WHITE-TA (pronounced "White-T-A") is in Zone 5 and used for day-to-day operations (Sheriff radios also have WHITE-TA in Zones 14 and 15.) GRAY-TA (pronounced "Gray-T-A") is in Zone 4 and used for narcotics and surveillance operations. SWAT-TA (pronounced "Swat-T-A") is in Zone 6 and used for SWAT operations.

The Fire Service shares five simplex channels between all of the Fire agencies. These channels have a leading number and letter as a part of the channel name, and this is how these channels are identified by Fire personnel. They are known as 13A FIRE TA1 (pronounced "Thirteen-Alpha"), 13B FIRE TA2 (pronounced "Thirteen-Bravo"), 13C FIRE TA3 (pronounced "Thirteen-Charlie"), 13D FIRE TA4 (pronounced "Thirteen-Delta"), and 13E FIRE TA5 (pronounced "Thirteen-Echo").

All City and County Lifeguards share one simplex channel known as AQUA-TA (pronounced "Aqua-T-A") located in Zone 1 of the agency radio.

Every City and County Public Works and Local Government agency each have a unique simplex channel known as SILVER-TA (pronounced "Silver-T-A") located in Zone 1 of the agency radio. Just like the Law GREEN-TA channels, these are also agency specific channels.

All Orange County 800 MHz CCCS mobile and portable radios have simplex channels located in Zone 10 that can be used to communicate with other disciplines. These channels use the "TAN" designator as a part of the channel name and, like the Fire simplex channels, also have a number/letter as a part of the channel name (some agencies refer to the channel using that name). 10A TAN-TA (pronounced "Tan-T-A" or "Ten-Alpha") is a simplex channel available for use anywhere in the County. 10C TAN-US-TA (pronounced "Tan-U-S-T-A" or "Ten-Charlie") is a simplex channel operating on the output of TAN-US-RP, available for use anywhere in the United States. 10E TAN-CAT-TA (pronounced "Tan-Cat-T-A" or "Ten-Echo") is a simplex channel operating on the output of TAN-CAT-RP, available for use anywhere in Orange County. 10G TAN-SIL-TA (pronounced "Tan-Sil-T-A" or "Ten-Golf") is a simplex channel operating on the output of TAN-SIL-RP, available for use anywhere in the County.

Some Law Enforcement and Fire Service radios may have 9L TAN-9-TA (pronounced "Tan-9-T-A" or "Nine-Lima") located in Zone 9. This is a simplex channel used for specific tactical incidents where both Law and Fire need to be on the same simplex channel.

This completes our review of the simplex channels that are unique to the 800 MHz CCCS. Next month we will continue our journey by taking a look at repeater channels unique to the 800 MHz CCCS.



The TAN-TA simplex channel appears in Zone 10 of every 800 MHz CCCS radio, as seen in this photo of a Motorola APX portable radio.

Winlink in Orange County

by Scott MacGillivray, KM6RTE@gmail.com

December's Winlink Peer-to-Peer Drill

A countywide Winlink Peer-to-Peer (P2P) practice drill was held on Saturday, December 11, 2021. The participants successfully transmitted and received several dozen messages directly with Drill Ops located at Loma Ridge, as well as among operators throughout Orange County. In addition, participants thoroughly utilized several Winlink RMS Gateways around the county as relays in order to extend their communications reach. As described in last month's article, Winlink P2P communication mode is just one of the four communications modes supported by Winlink, and allows sending messages when the internet becomes unavailable. This latest P2P drill is the fourth one held in 2021 (held quarterly), and the next one is tentatively scheduled for March 9, 2022 (mark your calendar).

Updating County Provided Winlink Client Stations

I've been contacted by several individuals interested in what can be done to "refresh" their city's Winlink client station that was distributed back in 2013. I can't offer any official guidance since they were officially provided by the county as part of a grant. Some of these systems may still remain in inventory with the county unless the county has been notified that they have since been identified as excessed equipment. As mentioned in last month's article, the good news is that most of this equipment can be used as part of an awesome Winlink client station. The main piece of equipment that needs to be replaced is the computer, and the older dot-matrix printer (if you'd like to connect to a printer). The new computer doesn't need a lot of computing "horsepower" or memory, so often a 1- or 2-year-old machine can work fine. It is best if it uses Windows 10, and that you have administrator rights in order to configure various settings. The older Windows XP computers provided in 2013 had built-in serial ports and associated cables, but newer computers now commonly have USB ports instead. As a result, the cables will need to be replaced with cables that are Serial to USB, and you will need to install a needed software driver for the adapter. It is generally recommended to use Serial-to-USB cables that utilize the FLDI driver. This cable is used to connect the computer to the Kantronics TNC (Terminal Node Controller; used to convert audio signals to/from digital signals). The other existing cables, as well as radios, and antenna should work very well. Refer to the extensive documentation that was included with the equipment for configuring the system. Contact me if you're unable to locate this documentation, or have questions. Winlink Express software is currently the fullest featured Winlink client software and is a free download from Winlink.org (<https://winlink.org/WinlinkExpress>).

Upcoming Winlink Online Classes

Starting January 27, 2022, I will be hosting weekly hour long online Winlink classes over 5 weeks using Zoom. These classes will be offered on Thursday afternoons (at noon), and repeated the following Sunday afternoons (at 3:00 pm) to allow scheduling flexibility. It doesn't matter which day you participate for a given session since they are the same, and you can change days if you have a schedule conflict on a given week. The level of instruction is focused toward individuals that don't know much about Winlink (and computers), as well as those who may have played with Winlink, but want to learn more. The weekly course dates and topic descriptions are:

| Session & Dates | Topics Covered |
|---|--|
| #1. Jan 27 th & 30 th | Introduction, overview, and uses for Winlink, Winlink software installation and setup, compose and send a simple message |
| #2. Feb 3 rd & 6 th | Additional setup and capabilities, overview of Forms and customization features |
| #3. Feb 17 th & 20 th | Representative computer and radio hardware configurations, setting up Winlink with a radio (simple) |
| #4. Feb 24 th & 27 th | Additional hardware configurations, setting up Winlink with a radio (continued, more advanced) |
| #5. Mar 3 rd & 6 th | Additional radio setup options, other Winlink operating modes |

If you're interested in signing up and/or have any questions about the classes, please send me an email (KM6RTE@gmail.com); include your name and callsign. In preparation for each week's session, I will be providing participants that have signed up with the Zoom meeting information and handout material. Please note that recording of the class sessions are not currently planned. If you think you might miss a week's lesson, please go ahead and sign up since the handout materials are my briefing charts, which provide a fairly complete overview of what is covered. Note that I will be unavailable briefly in the middle of February. As a result, there is a week gap in the schedule.

If there is enough interest, these introductory classes will be offered again in the future, and possibly additional classes on advanced topics. The current plan is to offer these introductory classes approximately every 3 months (next series starting in April) in preparation for each of the countywide Winlink Peer-to-Peer practice drills and other countywide Winlink exercises (e.g., Radio Rodeo).

Event Opportunities for PSRs

by Eric Bowen, W6RTR

One of the questions I hear a lot when speaking to other PSRs is, “Do I have to join a Reserve unit?” While there are many reasons to do so, the short answer to that is “No.” The longer answer to that is “No, but... there are a lot more opportunities for you if you do.” Well, I guess that wasn’t really a long answer, so I will expand on that a lot more.

If you decide not to join one of the Reserve units, there are still some opportunities to attend different events available to you. However, these events, for the most part, do not happen every month. By joining a Reserve unit, you do have monthly meetings, as well as monthly training opportunities.

Some of the different events that are available to us are assisting with the Fallen Officer Memorial Run and helping at the Graduation ceremony for each Academy class. The former is helping with the grilling of hot dogs and the latter is helping with parking control. I have yet to work at one of these events, since they are early in the mornings in the middle of the week. Also, the available slots can fill up very quickly once posted on the Reserve Tracker Calendar.

There are also several one-off events that happen throughout the year that we are asked to help with. I do not know all of them, but I have attended a couple of these events in the last few months. The first one was the annual Medal of Valor ceremony. I believe this was the first year that we were asked to help. Of all of the events that I have worked at, this one was the most rewarding. It was incredible to hear the stories being told by the recipients of these awards and to see them receiving the award from Sheriff Barnes.

The other event that we were asked to help with was being actors for the OCSB Bomb Squad in one of their training drills. I can’t really discuss the details of this drill in print, but my biggest question going in was if they were going to detonate an explosive for us. And they did! It was a small, remote-controlled device that they detonated to signal the start of the drill. They made sure that we were on the other side of the MRAP (mine-resistant, ambush-protected vehicle) that was also participating in the drill. It was a fun day and I really appreciated that we were able to help.

Some of the more unique events that you can participate in are not listed in the Reserve Tracker Calendar. These include the neighborhood patrols in the cities of Mission Viejo and Villa Park. There are currently two other cities where these patrols are being set up—Yorba Linda and Rancho Santa Margarita. These patrols consist of issuing parking citations, vacation home checks, patrol checks, and many other types of duty.

I have met quite a few PSRs that have not joined a specific unit and they are still very active. There are a number of events that you can do in order to meet the monthly minimum time requirements, even without joining one of the Reserve units. In the coming months, I will be writing articles on some of the different units that PSRs can join.

Log Your Reserve (PSR and Sworn) Hours!

If you are a RACES PSR participating in events not listed on the Reserve Tracker Calendar, but which are related to your PSR responsibilities (including RACES), you need to record your hours on the Reserve Tracker User Time Entry (click “User” in the left column of the Reserve Tracker website, and then click “Time Entry”). The “Event Name” column, which shows only RT Calendar prescheduled events, cannot be accessed or modified. Rather, describe your non-listed events in the “Notes” column. For example, when you check into an OCRACES ACS net, describe it as such and claim 0.5 hour. PSRs are required to log 10 hours per month (120 hours per year) in order to remain PSRs, so be sure to check the RT Calendar for events you can register to participate in and to log all related non-listed activities (including RACES nets, Severe Fire Weather Patrols, Winlink activities, assisting fellow members, writing articles for the OCRACES newsletter, working on projects for the Orange County Sheriff’s Museum, etc.) on the RT User Time Entry.

WSJT-X Version 2.5.3 Released

The WSJT-X development group—Joe Taylor, K1JT; Steve Franke, K9AN; and new member Nico Palermo, IV3NWV—has announced the release of WSJT-X 2.5.3. This new release includes a feature of special interest to users participating in the ARRL January VHF Contest (January 15 – 17, 2022). This new feature is an enhanced macro facility for text messages that is aimed at making it easier to ask another station to move to another band. This feature is described briefly in the updated [WSJT-X User Guide](#). Installation packages for WSJT-X 2.5.3 are available on the [WSJT-X website](#).

Next OCRACES Meeting: Jan. 3rd on Teams

Our next OCRACES meeting will be on Monday, January 3, 2022, at 7:30 PM. Joe Selikov, KB6EID, will host this online meeting on Microsoft Teams. You can download Teams here for your [desktop](#) and for your [mobile](#). A meeting link will be emailed to the ocsd-races Groups.io list and to OCRACES applicants. Members of city, county, and state RACES and EmComm units are invited to attend this meeting.

At this meeting we will have an open discussion about current issues in cybersecurity and how to protect our computer systems from cyberattacks.

Complying with Face Mask Requirements

The below revised guidelines for face coverings in the work place were sent to all County employees on December 14, 2021, on behalf of the Chief of Human Resources. The guidelines also apply to all County volunteers and interns, which means that **RACES PSRs need to comply**:

In response to rising cases and hospitalizations statewide due to COVID-19 and to slow the spread of the Delta and Omicron variants, the California Department of Public Health (CDPH) revised its “Guidance for the Use of Face Coverings” on December 13, 2021. The full guidance can be found here: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx>.

The CDPH requires masks to be worn in all indoor public settings, irrespective of vaccine status, for the next four weeks from December 15, 2021 through January 15, 2022 (surgical masks or higher-level respirators are recommended).

The revised guidance changes our current practice as to when County employees are expected to wear face coverings in the workplace. The following changes below apply to all County employees (unless an exemption applies) from December 15, 2021 through January 15, 2022:

- Employees are expected to wear a mask while in the workplace if they are not in an office or room alone with the door closed. If more than one employee is in a room or office, a face covering must be worn.
- Employees in cubicles (including cubicles with walls that do not connect to the ceiling) and reception areas are required to wear a face covering, even if a physical barrier exists or if there is more than six feet of distance between individuals.
- If the operational feasibility of the department allows for it, eating and drinking in cubicles is permitted provided employees are at least six feet apart. Please check with your supervisor. If eating or drinking in a cubicle, employees may remove their face-covering briefly to eat and drink but are expected to put it back on when finished.
- Face coverings are required when in County buildings in common areas, such as restrooms, breakrooms, hallways, and elevators.
- Employees who drive as a function of their assignment must wear a face covering unless when they are alone in the vehicle.
- Any employee who believes they have a medical-related reason that precludes them from wearing a face covering at work should talk with their supervisor or contact their human resources representative.

For employees that work with the public in front-facing counters:

- The safety of employees is our priority. In order to comply, employees are to remind members of the public who are not wearing a mask to wear one; however, no County employee should feel that they have to engage in any type of confrontation that becomes threatening to their safety. Please alert on-site security or contact 9-1-1 if any employee feels that their safety is threatened by any member of the public who does not wish to comply with the mandate.

Icom Reveals SHF Project

Under the theme of “Icom SHF Project—Super High Frequency Band Challenge,” Icom Incorporated in Osaka, Japan, has started to develop a new amateur radio for the 2.4 GHz and 5.6 GHz bands. Icom engineers are working on SHF challenges such as large cable loss and higher frequency stability requirements. Applications might include microwave propagation experiments, weak-signal contacts, SHF contests, and mesh networks.

Countywide RACES/EmComm News

"RACES/EmComm News" provides an opportunity to share information from all City & County RACES/ACS units and EmComm organizations and supportive amateur radio clubs in and near Orange County, as well as from Cal OES and federal agencies.

Please send your news to NetControl Editor Ken Bourne, W6HK, at:

kbourne.ocsd@earthlink.net

Orange County SKYWARN

OC SKYWARN was activated twice in December 2021 because of heavy rain events. On Tuesday morning, December 14th, with a prediction of showers becoming more numerous in the afternoon along with a chance of thunderstorms, the National Weather Service in San Diego requested OC SKYWARN Coordinator Scott O'Donnell, WX6STO, to activate SKYWARN for critical weather reports. NWS needed reports from members' homes, rather than from the field. Flooding and heavy rainfall measurements in a short amount of time were requested. Scott deactivated OC SKYWARN by early evening, per NWS San Diego forecasters.

On Thursday, December 23rd, at 0800 hours, the Orange County EOC was activated to a Level 3 (lowest level) for the Bond Fire Debris Flow. An Evacuation Warning (Voluntary) was issued for Silverado Canyon, Williams Canyon, and Modjeska in the Bond Fire burn area due to possible debris flow along or near the burn scar. The National Weather Service issued a Flash Flood Watch for the burn scar area in effect from 1900 hours Thursday until noon Friday. By early evening, with a prediction of showers becoming more numerous, Scott O'Donnell activated OC SKYWARN, at the request of NWS San Diego for critical weather reports. Members were asked to report from home. At 2000 hours, the County of Orange issued a mandatory evacuation order for those canyons in the burn area. The Orange County Fire Authority confirmed that a mudslide that occurred just after 2000 hours in Silverado Canyon impacted several roads in the area, as well as some homes that had already been previously affected by mudslides that occurred during the December 14th storm. Scott deactivated SKYWARN on Saturday morning, December 25th.

Orange County Sheriff's Department Reserve Bureau

OCRACES is accepting applications for membership in its ACS/RACES unit. To become a member, an applicant must first be an OCSD Professional Services Responder (PSR) or sworn Reserve Deputy. Reserve

information may be found on the [Reserves page of the OCSD website](#). After reading information on Sworn Reserve Deputies and PSRs, click "[Reserve Testing & Orientation Dates](#)." If you wish to pursue PSR orientation or sworn Reserve testing, click "[Reserve Interest Form](#)" and fill in the requested information. You will next be in contact with the Reserve Bureau for your desired date. The next orientation for sworn Reserve applicants and PSR applicants is Wednesday, January 5, 2022, starting at 1830 hours. The next testing for sworn Reserve applicants is Saturday, January 8th, starting at 0530 hours. The next prescreen for PSR applicants is Saturday, January 8th, starting at 0900 hours. If you are unable to attend on those January dates, later dates in March, May, June, August, and September/October are listed on that web page.

RACES PSRs are reminded to register for PSR Training (Patrol/Radio/Situational Awareness) that will occur on Thursday, January 6, 2022, from 1800 to 2000 hours, at the Sheriff's Academy in Tustin. If you can't make that date, a duplicate event will occur on Wednesday, February 2nd, from 1800 to 2000 hours, at the Academy. Another PSR Training (Human Trafficking/Drugs/Gangs) will occur on Tuesday, March 15th, from 1800 to 2000 hours, at the Academy. Please register for these events on the Reserve Tracker Calendar.

Orange County Amateur Radio Club (OCARC)

The next OCARC General Meeting will be on Friday, January 21, 2022, at 1900 hours. Due to the COVID pandemic, meetings are held over Zoom. Sign-on information will be given on the day of the meeting by an email link provided on the OCARC website at <https://www.w6ze.org>.

San Bernardino Microwave Society (SBMS)

The next SBMS meeting will be on Thursday, January 6, 2021, at 1900 hours, at the American Legion Hall, 1024 S. Main Street, in Corona. For those unable to attend in person, a Zoom link will be provided on the SBMS website at <https://w6ife.com> (click "News").

January 2022

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|--|-----|-----------------------------|----------------|---|--|
| | | | | | | 1 Happy New Year! |
| 2 | 3 Weekly 2 m ACS Net & OCRACES Teams Meeting | 4 | 5 PSR Applicant Orientation | 6 PSR Training | 7 | 8 PSR Pre-screen & Weekly 60 m ACS Net |
| 9 | 10 Weekly 2 m ACS Net | 11 | 12 | 13 | 14 | 15 Weekly 60 m ACS Net |
| 16 | 17 Weekly 2 m ACS Net | 18 | 19 | 20 | 21 Orange County Amateur Radio Club Meeting | 22 Weekly 60 m ACS Net |
| 23 | 24 ACS Net on 4 Bands | 25 | 26 | 27 | 28 | 29 Weekly 60 m ACS Net |
| 30 | 31 Weekly 2 m ACS Net | | | | | |

Upcoming Events:

- **January 1:** New Year's Day
- **January 3:** OCRACES Meeting on Microsoft Teams, 1930 hours
- **January 5:** Orientation for PSR Applicants, OC Sheriff's Regional Training Academy, 1830 hours
- **January 6:** PSR Patrol/Radio/Situational Awareness Training, OC Sheriff's Regional Training Academy, 1800-2000 hours
- **January 8:** Prescreen for PSR Applicants, OC Sheriff's Regional Training Academy, 0900 hours
- **January 21:** Orange County Amateur Radio Club Meeting on Zoom, 1900 hours
- **February 2:** PSR Patrol/Radio/Situational Awareness Training, OC Sheriff's Regional Training Academy, 1800-2000 hours
- **March 15:** PSR Training, Human Trafficking/Drugs/Gangs, OC Sheriff's Regional Training Academy, 1800-2000 hours



County of Orange RACES Frequencies

- 60 m: 5371.5 kHz USB (dial) (Channel 4) (OC ACS Net—Saturdays, 1000 hours)
- 40 m: 7250 kHz LSB
- 10 m: 29.640 MHz output, 29.540 MHz input, 107.2 Hz PL (down for repair)
- 6 m: 52.620 MHz output, 52.120 MHz input, 103.5 Hz PL
- 2 m: 146.895 MHz output, 146.295 MHz input, 136.5 Hz PL*
- 2 m: 146.595 MHz simplex
- 1.25 m: 223.760 MHz output, 222.160 MHz input, 110.9 Hz PL
- 70 cm: 446.000 MHz simplex
- 70 cm: 448.320 MHz output, 443.320 MHz input, 141.3 Hz PL (private)
- 70 cm: 449.100 MHz output, 444.100 MHz input, 110.9 Hz PL (private)
- 70 cm: 449.180 MHz output, 444.180 MHz input, 107.2 Hz PL (private)
- 70 cm: 449.680 MHz output, 444.680 MHz input, 131.8 Hz PL (private)
- *Primary Net—Mondays, 1900 hours



<https://ocraces.org>

Mission Statement

County of Orange RACES has made a commitment to provide all Public Safety departments in Orange County with the most efficient response possible to supplement emergency/disaster and routine Public Safety communications events and activities. We will provide the highest level of service using Amateur and Public Safety radio resources coupled with technology, teamwork, safety, and excellence. We will do so in an efficient, professional, and courteous manner, accepting accountability for all actions. We dedicate ourselves to working in partnership with the Public Safety community to professionally excel in the ability to provide emergency communications resources and services.

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It's Where It's @!

Questions or Comments?
Contact *NetControl* Editor Ken Bourne, W6HK
kbourne.ocsd@earthlink.net



**“W6ACS ...
Serving
Orange County”**

Meet Your County of Orange RACES Members!

Officers →



Ken Bourne W6HK Scott Byington KC6MMF Jack Barth AB6VC Ernest Fierheller KG6LXT



Heide Aguire K3TOG Randy Benicky N6PRL Eric Bowen W6RTR Ray Grimes N8RG Peter Jimenez K16UTE Walter Kroy KC6HAM Martin La Rocque N6NTH Steve Livingston NJ6R



Scott MacGillivray KM6RTE Don Mikami N6ELD Fran Needham KJ6UJS Harvey Packard KM6BV John Pilger K6PIO Joe Selikov KB6EID Robert Stoffel KD6DAQ Chuck Streitz KK6HFS Ken Tucker WF6F

**OCSD
RACES** →
Coordinator



Lee Kaser
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