



Incident Command System for Events

Dr. Raman Sinha, KV0N



Agenda

Club Event Challenges

Documentation

Incident Command System

ICS Forms

Case Study w/ICS

Live ICS Forms

Winlink + ICS Forms

Demo

Whoami?

Licensed August, 2020

Tech => Extra because COVID

Member of LARC, IPRC, BC ARES

- 01 | Surgeon
- 02 | Software Engineer
- 03 | Electronics
- 04 | Media
- 05 | Amateur Radio Software





Event Experience

Never coordinated an event, but participated in

- parade, same parade
- running race
- SET
- whitewater race
- etc.





Call for Volunteers



New hams, this is it!



Questions



Emails



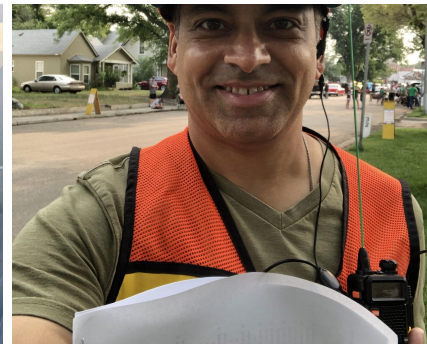
Confusion



Hotwash

Thanks for helping. Let's do it again next year!

- 01 | Last minute event changes
- 02 | Time and place confusion
- 03 | Parking
- 04 | Programing Baofengs in the field
- 05 | Can't print out all the emails





Epiphany

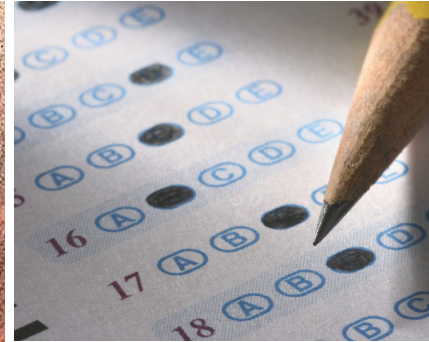
What if there was a way to make the event coordination and participation process smoother?



Standardization

"...can help maximize compatibility, interoperability, safety, repeatability, or quality. It can also facilitate a normalization of formerly custom processes."

- 01 | Andersen PowerPoles
- 02 | Scantron
- 03 | Ham Radio Event Template
- 04 | Programing Baofengs in the field
- 05 | Can't print out all the emails





ICS



01

Any size or type of incident

An incident is anything from an Governor's inauguration, a local parade, a bicycle accident, or a large wildfire.

Coordination

Race organizers, amateur radio operators, emergency medical services for injured athletes or runaway parade floats



03

Planning

ICS Establishes a common process for incident-level planning and resource management



02



ICS + NIMS and other TLAs

Incident Command System and the National Incident Management System are related.

Free Course Alert:

Go to the FEMA website for access to many free courses to better understand ICS, NIMS, and other aspects emergency management.

Many courses have certificates of completion.



FEMA





Incident Action Plan



01

Time Frame

When will we do this?

Assigns Responsibilities

Who will do what?



03

Specifies Communication Protocols

What frequencies will we communicate on?



02

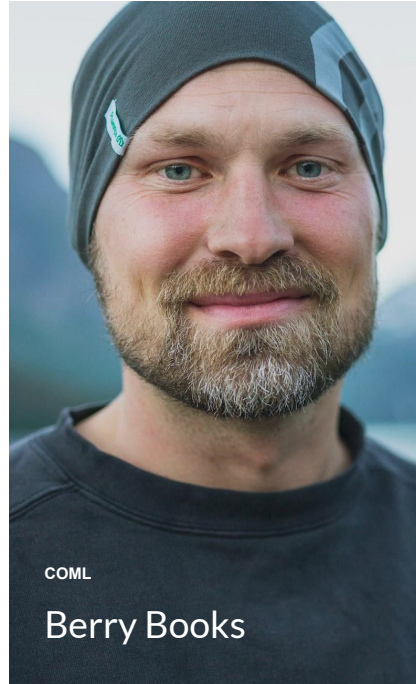


Hierarchy

In ICS, each person or group of people have specific responsibilities.

Overlap in responsibilities is discouraged.

Each person has only 1 superior to execute for.



Incident Action Plan

ICS Forms

ICS Form 201 - Incident Briefing

Overview of Incident Action Plan
Incident name

Maps/Sketches

Resources

Health & Safety Briefing

Incident Briefing (ICS 201)		
1. Incident Name: Gore Race 2021	2. Incident Number: -	3. Date/Time Initiated: Date: 08/28/21 Time: 8:00
4. Map/Sketch (include sketch, showing the total area of operations, the incident site/area, impacted and threatened areas, overflight results, trajectories, impacted shorelines, or other graphics depicting situational status and resource assignment):		

Common ICS Forms

ICS 201 - Incident Briefing

ICS 202 - Incident Objectives

ICS 204 - Assignment List

ICS 205 - Incident Radio Communications Plans

ICS 205A - Communications List

ICS 206 - Medical Plan

The image shows a stack of five ICS forms. The topmost form is ICS 234 - Work Analysis Matrix. It includes fields for Incident Name, Version Name, and Period. Below these are sections for Objectives and Assignments, with columns for Operation's Objectives, Strategies, Tactics/Work Assignments, and Apply to Area(s). The bottom of the form has a footer with 'ICS 234 - Work Analysis Matrix', 'Incident Action Plan Software', 'Page 1 of 1', and a copyright notice.

ICS 234 - Work Analysis Matrix		Version Name:	
Incident Name:		Period: / / to / /	
Objectives and Assignments			
Operation's Objectives (DESIRED OUTCOME)	Strategies (HOW)	Tactics/Work Assignments (WHO, WHAT, WHERE, WHEN)	Apply to Area(s)

ICS 234 - Work Analysis Matrix
Incident Action Plan Software
Page 1 of 1
© 1987-2018



Story Time

What did I get myself into?



Incident Action Plan for

Gore Race 2021

Operational Period

Date From:	8/28/21	Date To:	8/28/21
Time From:	8:00	Time To:	18:00



Incident Briefing (ICS 201)

1. Incident Name: Gore Race 2021	2. Incident Number: -	3. Date/Time Initiated: Date: 08/28/21 Time: 8:00
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4. Map/Sketch (include sketch, showing the total area of operations, the incident site/area, impacted and threatened areas, overflight results, trajectories, impacted shorelines, or other graphics depicting situational status and resource assignment):



5. Situation Summary (for briefings or transfer of command):

Kayak and raft race through Gore Canyon.
Class V rapids are the most technically challenging white water.
Radio operators to provide communications between safety teams.

6. Prepared by: Willem Schreuder	Position Title: COML	Signature: <i>W. Schreuder</i>
ICS 201, Page 3	Date/Time: 8/21/2021	

[illegible]

Incident Briefing (ICS 201)

1. Incident Name: Gore Race 2021	2. Incident Number: -	3. Date/Time Initiated: Date: 08/28/21 Time: 8:00			
6. Current Organization (fill in additional organization as appropriate):					
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 10px; text-align: left;"> Incident Commander(s) Hojo KC0PBZ (Finish) Hattie Johnson (Race Director) </div> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 2px; height: 100px; background-color: black;"></div> <div style="margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> COML Willem AC0KQ (Toilet Bowl) </div> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> INCM Mark N7CTM (QRV/NC5) </div> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> Safety Evan Stafford (Race Safety) Ben KC2VJW (Tunnel) </div> </div> </div> </div>					
Start Mark N0MTN	Gore/Scissors Rapid Matthew N0FMP	Tunnel Rapid Ben KC2VJW	Toilet Bowl Rapid Willem AC0KQ	Finish Hojo KC0PBZ	Takeout Kathy KD0DPX
6. Prepared by: Willem Schreuder		Position Title: COML		Signature: <i>W. Schreuder</i>	
ICS 201, Page 3		Date/Time: 8/21/2021			

Summary

In general, race communication in the canyon can be limited to a very basic set of coordinated messages to establish that the race may begin and to determine when the race is over. While the race is in progress, it may be necessary to communicate any issues that paddlers (racers and non-racers alike) or any support crew (railroad, photographers, etc) may experience. The intent of this plan is to give general guidance on what information needs to be communicated and how. In general, stations communicating should send all messages to the Safety Director (SD), and the SD should determine any necessary course of action. In the event of an emergency, and at the discretion of the SD all other times, the Race Director (RD) must be notified. The SD is responsible for coordinating safety communications with the safety teams and the RD is responsible for coordinating safety communications with all third party entities such as the Railroad and EMS.

General Race Communication

Start/Stop

The start of the race should happen after all race crew are in position with verbal, radio confirmation. The finish of the race is less defined and can "cascade" through the racecourse once the last racer is on course.

1. Start Protocol
 - a. Each major safety station, including the finish timer calls in a "go for race" over the radio to the SD.
 - b. The SD signals to start that the race may begin
2. Race Finish Protocol
 - a. The start station signals to the SD that the last racer is on course.
 - b. A sweep raft, beginning at the start and keeping the last or any other racer in front of them, may sweep the course.
 - c. The SD gives notice to all stations that they may leave their station as the sweep raft clears the course. The sweep raft must remain on course, communicating to each station as they pass that the last racer has cleared their zone.

Non-emergency race communication

It may be necessary to communicate to the SD of a non-emergency issue. This might be in the form of equipment or swimmer rescue or perhaps a situation where equipment is impeding or otherwise impacting the race. This information should be communicated to the SD and the SD can take appropriate action, including pausing starts or diverting traffic. The SD can, at their

discretion, notify the RD

1. Examples of non-emergency scenarios that should be communicated to the SD include, but are not limited to:
 - a. Rescue operations MUST be communicated.
 - i. Conclusion of any rescues MUST be communicated.
 - b. A racer retires the course voluntarily or due to separation from craft.
 - c. Equipment is stuck though not an immediate safety hazard.
 - d. Stuck equipment needs extra resources for extraction
 - e. Any safety concerns that may threaten to escalate (spectators interfering, safety out of position for any reason, etc...

Emergency Communication

In the event of an emergency, a general call with the details should be made and radio silence for all safety teams should commence. Silence can only be broken in order to call in another emergency. The SD must immediately be notified along with the pertinent details. If necessary, the SD can pause or cancel the race entirely. Safety teams also have the discretion of enlisting a race or racers to assist in the incident. The SD MUST notify the Race Director of any emergency that arises. The RD MUST notify all third parties.

1. Upon identification of any emergency situation, the safety team immediately notifies the SD of the situation.
2. After determining any immediate course of action, the SD may first advise the safety team of any directives.
3. The SD must immediately, if not already, notify the RD of the situation.
4. If the SD or RD deems it necessary, they may pause or cancel race starts. A cancellation of further starts is recommended if safety teams are pulled from their stations to render assistance.
5. The RD must notify and/or activate EMS. The RD must also notify all third parties that may be concerned.
6. The RD is responsible for coordinating any third party evacuation resources while the SD is responsible for managing the emergency with the safety team(s).
7. In the event of a cancellation, the sweep raft should be activated in order to collect all upstream safety resources and see that any racers on course are either diverted or, at the very least, kept ahead of the sweep raft.
8. In the event of multiple emergencies, or if the SD cannot be contacted, communication should be sent to the RD. Each should declare themselves to be point for a specific incident and assume both RD/SD emergency responsibilities for their given incident.

Requirements

This plan requires that stations have reliable radio contact with each other and with the SD, RD. As of this writing, that infrastructure is yet to be determined.

Gore Canyon Locations					
Name	Class	Mile	Latitude	Longitude	Remarks
Start/First Rapid	III+	0.0	40.036354	-106.439696	Get Ready Eddy (or, Gear Up Rock)
Applesauce	IV	0.5	40.032832	-106.445798	This is the most dangerous rapid on the river. Fortunately it is a simple m right to avoid a dangerous rock pile in the center.
Gore Rapid	5.0	1.0	40.025856	-106.455143	This is the beginning of the big rapids. Any incidents that occur will likely and end downstream.
Scissors	IV	1.1	40.023886	-106.457697	This is the "end" of the Gore Rapid section. If anything happens in Gore th they'll likely be collected.
Pyrite Falls	IV+	1.2	40.021586	-106.462344	6' to 8' river wide ledge. There is a pool at the base for collecting gear wt washes down all the way from Gore Rapid.
Lots of Class IV	IV	1.5	40.019258	-106.464936	Pool drop Class IV from Pyrite to Tunnel with a few random big holes
Tunnel Falls	5.0	2.5	40.016995	-106.474420	This is an easy rapid to rescue from but injuries can occur.
Toiler Bowl	IV	2.8	40.015206	-106.478695	One of the worst holes for boat and potential paddler retention.
Kirshbaum	IV+	3.0	40.012328	-106.481446	This is the longest and most technical rapid in Gore Canyon.
Finish		3.4	40.009368	-106.486400	End of timed section.
Pumphouse		4.5	39.989488	-106.508419	Takeout
QRV2		---	40.000317	-106.487176	Pullout on Trough Rd

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name: Gore Race 2021		2. Operational Period: Date From: 8/28/21 Date To: 8/28/21 Time From: 8:00 Time To: 18:00	
3. Objective(s): Provide effective communications in support of safety teams. Provide situational awareness to safety teams. Assist race organizers in conducting a safe event.			
4. Operational Period Command Emphasis: Support safety teams.			
General Situational Awareness: Operators will be in close proximity to the Colorado River and active train tracks.			
5. Site Safety Plan Required? Yes <input type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located at:			
6. Incident Action Plan (the items checked below are included in this Incident Action Plan):			
<input checked="" type="checkbox"/> ICS 202	<input checked="" type="checkbox"/> ICS 206	Other Attachments:	
<input type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 207	<input type="checkbox"/>	
<input checked="" type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 208	<input type="checkbox"/>	
<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Map/Chart	<input type="checkbox"/>	
<input checked="" type="checkbox"/> ICS 205A	<input type="checkbox"/> Weather Forecast/Tides/Currents	<input type="checkbox"/>	
7. Prepared by: Name: <u>Willem Schreuder</u>		Position Title: <u>COML</u> Signature: <u>W. Schreuder</u>	
8. Approved by Incident Commander: Name: _____		Signature: _____	
ICS 202	IAP Page _____	Date/Time <u>8/21/2021</u>	

ASSIGNMENT LIST (204)

1. Incident Name: Gore Race 2021		2. Operational Period: Date From: 8/28/21 Date To: 8/28/21 Time From: 8:00 Time To: 18:00		3. Branch: Gore
4. Operations Personnel: Operations Section Chief: _____ Branch Director: _____ Division/Group Supervisor: _____		Name _____ Contact Number(s) _____		Division: _____ Group: _____ Staging Area: _____
5. Resources Assigned:				Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information
Resource Identifier	Leader	# of Persons	Additional Resources	
Start	Mark NOMTN	1		
Gore/Scissors Rapid	Matthew NOFMP	1		
Tunnel Rapid	Ben KC2JVW	1		
Toilet Bowl Rapid	Willem AC0KQ	1		
Finish	Hojo KC0PBZ	1		
Takeout	Kathy KD0DPX	1		
QRV2	Mark N7CTM	1		
6. Work Assignments:				
Deploy Saturday morning 0830. Gore/Scissors teams ride in with Start team, raft across river and hike to rapids along river right bank. Optionally raft to rapid if you are qualified Tunnel/Toilet cross river at Pumphouse and hike to rapids along river right bank. Be at the assigned location by 1100. Establish communications using QRV2 repeater or simplex if QRV2 cannot be reached. Coordinate with safety teams during race. Keep track of bib numbers and notify NCS of overdue participants. Exponentially return at end of race following reverse of ingress route. Optionally raft out if you are qualified.				
7. Special Instructions:				
If unable to effectively communicate via the QRV2 repeater, net control may decide to switch to simplex operations. Replay messages as required, but this will add significant operator load so be direct and brief. If not busy record bib numbers and relay them to Finish.				
8. Communications (radio and/or phone contact numbers needed for this assignment):				
Command/	/	Command	Primary Contact: indicate cell, pager, or radio (frequency/system/channel)	
Command/QRV2 Repeater		Command	Ch: RX:147.075W TX:147.675W Tone:88.5 Mode:A	
actical/Command Simplex		Tactical	Ch: RX:438.225W TX:433.225W Tone:141.3 Mode:A	
actical/Command Simplex		Tactical	Ch: RX:147.540W TX:147.540W Tone: Mode:A	
actical/Command Simplex		Tactical	Ch: RX:446.175W TX:446.175W Tone: Mode:A	
9. Prepared by: Name: Willem Schreuder		Position/Title: COML		Signature: <i>W. Schreuder</i>
ICS 204 IAP Page		Date/Time: 8/21/2021		

INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

[illegible]

[illegible]

1. Incident Name:		2. Operational Period:		Date From: 8/28/21	Date To: 8/28/21
Gore Race 2021				Time From: 8:00	Time To: 18:00

3. Medical Aid Stations:

Name	Location	Contact Number(s)	Paramedics on Site?
Grand County EMS	Kremmling	911	
Kremmling BLM Field Office	Kremmling	970-724-3000	
Grant County Sherriff	Kremmling	970-725-3343	

4. Transportation (indicate air or ground):

Ambulance Service	Location	Contact Number(s)	Level of Service
Grande County EMS	Kremmling	911	

5. Hospitals:

Hospital Name	Address, Latitude & Longitude if Helipad	Contact Number(s)/ Frequency	Travel Time		Trauma Center	Burn Center	Helipad
			Air	Ground			

6. Special Medical Emergency Procedures:
Start will be in cell phone contact with Grand County EMS.
In case of emergency Start will call 911.
The Safet Director/safety team has authority to decide whether EMS should be called.

MEDICAL PLAN (ICS 206 WF)

Controlled Unclassified Information/Basic

Medical Incident Report				
FOR A NON-EMERGENCY INCIDENT, WORK THROUGH CHAIN OF COMMAND TO REPORT AND TRANSPORT INJURED PERSONNEL AS NECESSARY.				
FOR A MEDICAL EMERGENCY: IDENTIFY ON SCENE INCIDENT COMMANDER BY NAME AND POSITION AND ANNOUNCE "MEDICAL EMERGENCY" TO INITIATE RESPONSE FROM IMT COMMUNICATIONS/DISPATCH.				
Use the following items to communicate situation to communications/dispatch.				
1. CONTACT COMMUNICATIONS / DISPATCH (Verify correct frequency prior to starting report) Ex: "Communications, Div. Alpha, Stand-by for Emergency Traffic."				
2. INCIDENT STATUS : Provide incident summary (including number of patients) and command structure. Ex: "Communications, I have a Red priority patient, unconscious, struck by a falling tree. Requesting air ambulance to Forest Road 1 at (Lat/Long). This will be the Trout Meadow Medical, IC is TFLD Jones. EMT Smith is providing medical care."				
Severity of Emergency / Transport Priority	<input type="checkbox"/> RED / PRIORITY 1 Life or limb threatening injury or illness. Evacuation need is IMMEDIATE Ex: Unconscious, difficulty breathing, bleeding severely, 2" - 3" burns more than 4 palm sizes, heat stroke, disoriented. <input type="checkbox"/> YELLOW / PRIORITY 2 Serious injury or illness. Evacuation may be DELAYED if necessary. Ex: Significant trauma, unable to walk, 2" - 3" burns not more than 2-3 palm sizes. <input type="checkbox"/> GREEN / PRIORITY 3 Minor injury or illness. Non-emergency transport Ex: Sprains, strains, minor heat-related illness.			
Nature of Injury or Illness & Mechanism of Injury	Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)			
Transport Request	Air Ambulance / Short Haul/Hoist Ground Ambulance / Other			
Patient Location	Descriptive Location & Lat. / Long. (WGS84)			
Incident Name	Geographic Name + "Medical" (Ex: Trout Meadow Medical)			
On-Scene Incident Commander	Name of on-scene IC of Incident within an Incident (Ex: TFLD Jones)			
Patient Care	Name of Care Provider (Ex: EMT Smith)			
3. INITIAL PATIENT ASSESSMENT : Complete this section for each patient as applicable (start with the most severe patient)				
Patient Assessment: See IRPG page 106				
Treatment:				
4. TRANSPORT PLAN :				
Evacuation Location (if different): (Descriptive Location (drop point, intersection, etc.) or Lat. / Long.) Patient's ETA to Evacuation Location:				
Helispot / Extraction Site Size and Hazards:				
5. ADDITIONAL RESOURCES / EQUIPMENT NEEDS :				
Example: Paramedic/EMT, Crews, Immobilization Devices, AED, Oxygen, Trauma Bag, IV/Fluid(s), Splints, Rope rescue, Wheeled litter, HAZMAT, Extrication				
6. COMMUNICATIONS : Identify State Air/Ground EMS Frequencies and Hospital Contacts as applicable				
Function	Channel Name/Number	Receive (RX)	Transmit (TX)	Tone/NAC *
COMMAND				
AIR-TO-GROUND				
TACTICAL				
7. CONTINGENCY : Considerations: If primary options fail, what actions can be implemented in conjunction with primary evacuation method? Be thinking ahead.				
8. ADDITIONAL INFORMATION : Updates/Changes, etc.				
REMEMBER: Confirm ETA's of resources ordered. Act according to your level of training. Be Alert. Keep Calm. Think Clearly. Act Decisively.				

SAFETY MESSAGE/PLAN (ICS 208)

1. Incident Name: Gore Race 2021	2. Operational Period: Date From: 8/28/21 Date To: 8/28/21 Time From: 8:00 Time To: 18:00
3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan : There is an active railroad running along the canyon. Trains may pass at any time and do not sound horns. Start and takeout will monitor the railroad frequency and advise when trains approach, but do not rely on that. REMAIN CLEAR OF THE RAILROAD TRACK AT ALL TIMES. You will be near the Colorado River which has Class V rapids in this reach. Remain a safe distance from the water. DO NOT GO INTO THE WATER. Defer to the designated safety team for water rescues. Do not attempt to render aid unless you are qualified and can safely do so. WEAR YOUR PERSONAL FLOTATION DEVICE AT ALL TIMES. IF YOU FALL IN THE WATER: Remain calm. Orient your body so your legs are together and feet up pointing down stream as protection against obstacles. Make your way to either shore as soon as possible. Never stand up in moving water (risk of foot entrapment). If trapped in a hydraulic feature, try changing your body shape (ball up, stretch out, etc). Attract the attention of the safety team for rescue. (Single blast on whistle). Await rescue by the safety team - do not re-enter the water. If you are tossed a throw rope, grab the rope (not the bag) and hold on. Due to hazardous conditions, net control will perform frequent welfare checks throughout the operational period. Review whitewater hand signals (attached). COVID-19 : This is an outside event, but interaction with people you do not know may be required. Take all necessary steps to prevent exposure and wear a mask as necessary, regardless of vaccination status. Review the Grant County COVID-19 advisory attached.	
4. Site Safety Plan Required? Approved Site Safety Plan(s) Located At: Included in IAP	
5. Prepared By : Name: Willem Schreuder	Position/Title: COML Signature: <i>W Schreuder</i>
ICS 208	IAP Page Date/Time: 08/21/21



GRAND COUNTY PUBLIC HEALTH
150 Moffat Street • PO Box 264 • Hot Sulphur Springs, Colorado 80451-0264
970-725-3288 • FAX: 970-725-3438

August 5, 2021

Public Health Advisory Notice

COVID cases and hospitalizations are rising across the nation and in the State of Colorado. Grand County is also seeing an increase in cases primarily among unvaccinated populations. The increases in hospitalizations for COVID-19 nationwide are predominantly unvaccinated individuals.

Delta variant has been detected in Grand County and is now over 80% of COVID cases nationwide. There are several positive cases in Grand County that have had samples sent to the State lab for sequencing for variants. Sequencing can take 10-14 days to identify which strain of COVID-19 the individual contracted. The Delta variant is proving to be more transmissible than previous variants and causing more severe illness, specifically for unvaccinated individuals.

To protect Grand County's ability to function as normally as possible without additional transmission control mandates, it is recommended that all in our community continue to practice a layered prevention approach to mitigate the spread of COVID-19:

- Get vaccinated if you are eligible (12 years old and over for Pfizer, 18 years old and over for Moderna and Johnson and Johnson vaccines)
- Socialize and interact in well ventilated areas whenever possible
- Keep 6 feet between yourself and other households
- Wear a mask (even if you are vaccinated) in indoor spaces where ventilation and distancing are not adequate
- Get tested if you experience symptoms consistent with COVID-19
- Stay home if you are sick and separate yourself from others as much as possible

We can prevent severe outcomes from COVID-19 with the three FDA-Emergency Use Authorized vaccines that are providing 80-96% prevention of severe illness and death and are available in multiple locations in Grand County.

Grand County has not reached the benchmark of 70% of eligible people with COVID vaccination. This will have an effect on how schools operate and possible reintroduction of mask mandates indoors.

Kayaking and river signals | Wave Sport

Posted: 25.12.2016 BY Michele Ramazza

Here you can find a detailed list of the most important river signal internationally known. A short guide to help the communication in the noisy river environment.

One of the most important rule about river signals is: **simplicity, clearness and only the necessary information.**

It's important to remember to have a short briefing with your group before any river descent in order to avoid dangerous misunderstanding. Some kayaker might not follows this standard!

The standard presented below is internationally known and comes from the **Rescue and Rafting world.**



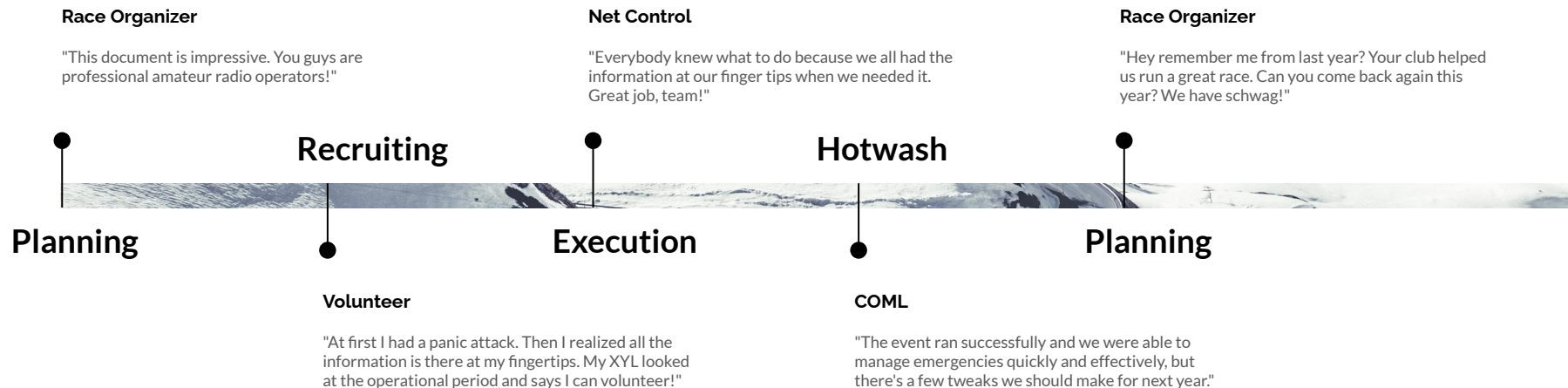
OK, I UNDERSTOOD

The OK signal means "OK, I UNDERSTOOD". It's important to do this signal every time you receive a communication from anyone and you have understood the message. In case you don't do this message, it means the communication has not arrived.

This signal can also be used to say "I'M ALL RIGHT" and you haven't hurt yourself or someone else is safe.



IAP Thoughts?





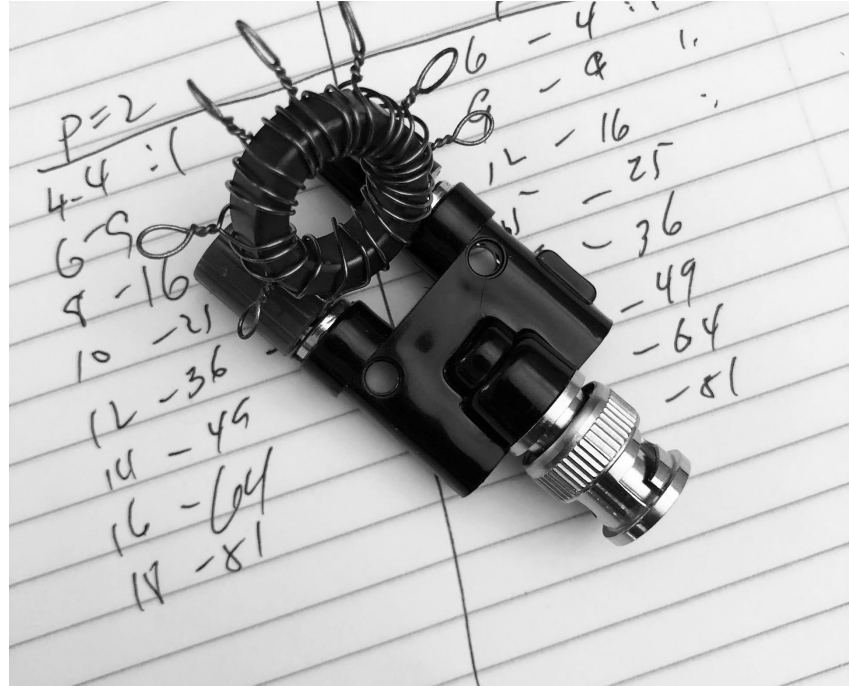
Packet Radio

Live forms

Throughout the event, information does not remain static. In some events, printed document can become outdated quickly. Or you may have to traffic a lot of information.

Packet Radio

With a radio (or internet/IP) connected to your laptop, you can transmit and receive ICS forms from stations in the field. Organizations like ARES use packet almost exclusively for reliable communication of large amounts of information.



WinLink

ICS Forms are built into Winlink Express

Pat Winlink (cross-platform) has forms, too.

FLMsg also has Winlink forms

Woad for Android

Many features, can be addictive

A screenshot of the FLMSG 4.0.14 software interface. The window has a green title bar and a menu bar with options: File, Form, Template, Config, AutoSend, Utilities, and Help. Below the menu bar is a toolbar with buttons for Message, Records, and a file name field showing "file: Exercise_2 2.4.m2s". The main form area contains various fields for message composition. On the left, there are fields for SVC (32), *NR, *PREC, HX, *STN ORIG (K36M), and CK (18). Below these are fields for PLACE OF ORIG (AJAX CA USA) and TIME FILED (0959L). On the right, there are fields for *MON DY (MAR 10) and *TO (AJAX COUNTY SUPPLY DEPOT, 123 MAIN ST, AJAX CA). There are also fields for TEL and OP NOTE. A checkbox for "Standard Format" is checked, and a button for "ARL MSG" is visible. At the bottom, there is a large text area for the message body, which contains the text: "SEND 25 COUNT HUMULIN R U-500 KNIFE PENS FROM PHARMACY TO RESPONSE CENTRAL X MUST ARRIVE BY 7 PM". Below the text area are fields for SIG (JOE JONES RN LVN DISASTER RESPONSE) and another OP NOTE field. At the very bottom, there are fields for Comp (MFSK32), a dropdown menu, and a status field showing "470 bytes / 1 m 0 s". The bottom right corner has buttons for ARQ, Send, and a status field showing "NOT CONNECTED".



Demo gods are not with us

Winlink + ICS Forms



No active session...

System Folders

Inbox (0 unread)

Read Items (0)

Outbox (0)

Sent Items (20)

Saved Items (0)

Deleted Items (1)

Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO

SAILDOCS_QUERY

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2022/08/02 01:15	A4A66H8478PD	4302	SMTP	SMTP.query-repl...	KV0N	http://www.bbc.com/news
	2022/05/30 13:39	QT2LEIO7QT72	627	K0ITP	K0ITP	KV0N	Re: May club event - I participated in a LARC Event!
	2022/05/17 15:49	5GD35P2K3GTB	861	N0OUW	N0OUW	KV0N	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
	2022/03/30 16:20	GU04DR8D3QEC	593	KK6DA	KK6DA	KV0N	Re: Cat?
	2022/03/29 21:40	MZORDYNFPC9	354	SYSTEM	SERVICE	KV0N	Inquiry Alert Re: WL2K_NEARBY
	2022/03/18 17:13	TZ63GDTJUR2H	361	CMS	SERVICE	KV0N	Service Advice Message
	2022/03/18 17:00	DMHEC1EC78U5	16124	SMTP	SMTP.query-repl...	KV0N	http://www.amf.org/ares-el?issue=current

From: query-reply@saildocs.com

To: KV0N

Source: SMTP

Downloaded-from: Telnet:cms.Winlink.org

Subject: http://www.bbc.com/news

URL: http://www.bbc.com/news

Date: 18 Mar 2022 17:00:06 -0000

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Zelensky: Russian shelling still hampering Mariupol evacuation

Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.
Europe

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Packet Winlink Logs Help

Winlink Express Setup...

Font for text...

Font for lists...

Set color themes

GPS / Position Reports...

Winlink Catalog Requests...

GRIB file request...

Preferences...

Update User Options...

Message Notification and Forwarding

Form settings...

Auto session open on startup...

Contacts...

Group Addresses...

Add Personal Folder...

Add Global Folder...

Hybrid Network Parameters

View Usage Statistics

View background tasks...

Backup and restore databases...

Exit

No active session...

Sys...

Inbox (0 unread)

Read Items (0)

Outbox (0)

Sent Items (20)

Saved Items (0)

Deleted Items (1)

Drafts (0)

Perse...

Gl...

SAILDOCS_INFO

SAILDOCS_QUERY

Message ID	Size	Source	Sender	Recipient	Subject	
01:15	A4A66H8478PD	4302	SMTP	SMTP.query-repl...	KV0N	http://www.bbc.com/news
13:39	QT2LEI07QT72	627	K0ITP	K0ITP	KV0N	Re: May club event - I participated in a LARC Event!
15:49	5GD35P2K3GTB	861	N0OUW	N0OUW	KV0N	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
16:20	GU04DR8D3QEC	593	KK6DA	KK6DA	KV0N	Re: Cat?
21:40	MZORDYNEPZC9	354	SYSTEM	SERVICE	KV0N	Inquiry Alert Re: WL2K_NEARBY
17:13	TZ63GDTJR2H	361	CMS	SERVICE	KV0N	Service Advice Message
17:00	DMHECIEC78U5	16124	SMTP	SMTP.query-repl...	KV0N	http://www.amf.org/ares-el?issue=current

T1KYYW4TOW2

/18 17:00

reply@saildocs.com

om: Telnet:cms.Winlink.org

://www.bbc.com/news

www.bbc.com/news

2022 17:00:06 -0000

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Zelensky: Russian shelling still hampering Mariupol evacuation

Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.

No active session...

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2022/08/02 01:15	A4A66H8478PD	4302	SMTP	SMTP:query-repl...	KV0N	http://www.bbc.com/news
Read Items (0)							
Outbox (0)							
Sent Items (20)							
Saved Items (0)							
Deleted Items (1)							
Drafts (0)							

Winlink Express Properties

Call Signs

My Callsign: My Password:
(Case sensitive)

Callsign suffix (optional): (Used for country code)

Password recovery e-mail:
(Non-Winlink e-mail address where lost password will be sent when requested)

Auxiliary Callsigns and Tactical Addresses

My Grid Square:

Winlink Express registration key:

Service Codes

(Use PUBLIC for ham call signs. Separate multiple service codes by spaces.)
If you change service codes, you must update the list of channels.

Contact Information (Optional)

Name:

Street address 1:

Street address 2:

City:

State/Province:

Country:

Postal code:

Web Site URL (optional):

Phone number:

Non-Winlink e-mail:

Additional information (optional):

Recalculate HF path quality if SFI changes more than:

Keep logs for weeks. Keep deleted messages for days.

☐ Display list of pending incoming messages prior to download

☒ Warn about connections to stations holding messages

☒ Allow diagnostic information to be sent to the Winlink Development Team

☐ Automatically install field-test (beta) versions of Winlink Express

Top Stories

Live Live

Zelensky: Russian shelling still hampering Mariupol evacuation

Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.
Europe

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Packet Winlink Logs Help

No active session...

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (20)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO

SAILDOCS_QUERY

New Message...

Reply...

Reply to All...

Forward...

Forward without change...

Acknowledge receipt...

Save message as...

Edit...

Template manager...

Template settings...

Set favorite templates...

HTML Forms

Generate ICS-309 Communication Log

Generate maps and CSV files for forms

Export messages

Import messages

Archive messages

Message ID	Size	Source	Sender	Recipient	Subject
6H8478PD	4302	SMTP	SMTP.query-repl...	KV0N	http://www.bbc.com/news
EIO7Q7T2	627	K0ITP	K0ITP	KV0N	Re: May club event - I participated in a LARC Event!
5P2K3GTB	861	N0OUW	N0OUW	KV0N	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
4DR8D3QEC	593	KK6DA	KK6DA	KV0N	Re: Cat?
RDYNEPZC9	354	SYSTEM	SERVICE	KV0N	Inquiry Alert Re: WL2K_NEARBY
GDTJR2H	361	CMS	SERVICE	KV0N	Service Advice Message
ECTEC78U5	16124	SMTP	SMTP.query-repl...	KV0N	http://www.amf.org/ares-el?issue=current

OW2

0

ldocs.com

et:cms.Winlink.org

bc.com/news

om/news

00:06 -0000

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Zelensky: Russian shelling still hampering Mariupol evacuation

Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.

Winlink Express 1.7.0.0 - KVON

KVON Settings Message Attachments Move To: Saved Items Delete Open Session: Packet Winlink Logs Help

No active session...

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (20)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

Global Folders

Contacts

- SAILDOCS_INFO
- SAILDOCS_QUERY

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2022/08/02 01:15	A4A66H8478PD	4302	SMTP	SMTP:query-repl...	KVON	http://www.bbc.com/news
2022/05/30 13:39	QT2LEIO7QT72	627	K0ITP	K0ITP	KVON	Re: May club event - I participated in a LARC Event!
2022/05/17 15:49	5GD35P2K3GTB	861	N0OUW	N0OUW	KVON	Re: Winlink Check In [Net]-KVON-Lafayette, Colorado
2022/03/30 16:20	GU04DR8D3QEC	593	KK6DA	KK6DA	KVON	Re: Cat?
2022/03/29 21:40	MZORDYNEPZC9	354	SYSTEM	SERVICE	KVON	Inquiry Alert Re: WL2K_NEARBY
2022/03/18 17:13	TZ63GDTJR2H	361	CMS	SERVICE	KVON	Service Advice Message
2022/03/18 17:00						

Enter a new message

Close Select Template Attachments Post to Outbox Spell Check Save in Drafts

Message ID: ET1KXX
Date: 2022/03/18 17:00
From: query-reply@
To: KVON
Source: SMTP
Downloaded-from: T
Subject: http://www.
URL: http://www.bbc.
Date: 18 Mar 2022

From: KVON Send as: Winlink Message ☐ Request message receipt Set Defaults

To: KVON

Cc:

Subject:

Attach:

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Zelensky: Russian shelling still hampering Mariupol evacuation
Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.



No active session...

System Folders
Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (20)
Saved Items (0)
Deleted Items (1)
Drafts (0)
Personal Folders
Global Folders
Contacts
SAILDOCS_INFO
SAILDOCS_QUERY

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2022/08/02 01:15	A4A66H8478PD	4302	SMTP	SMTP:query-repl...	KV0N	http://www.bbc.com/news
2022/05/30 13:39	QT2LEIO7QT72	627	K0ITP	K0ITP	KV0N	Re: May club event - I participated in a LARC Event!
2022/05/17 15:49	5GD35P2K3GTB	861	N0OUW	N0OUW	KV0N	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
2022/03/30 16:20	GU04DR8D3QEC	593	KK6DA	KK6DA	KV0N	Re: Cat?
2022/03/29 21:40	MZORDYNEPZC9	354	SYSTEM	SERVICE	KV0N	Inquiry Alert Re: WL2K_NEARBY
2022/03/18 17:13	TZ63GDTJR2H	361	CMS	SERVICE	KV0N	Service Advice Message
2022/03/18 17:00						

Enter a new message

Message ID: ET1KXX
 Date: 2022/03/18 17:00
 From: query-reply@...
 To: KV0N
 Source: SMTP
 Downloaded-from: Te...
 Subject: http://www...

URL: http://www.bbc

Date: 18 Mar 2022

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Zelensky: Russian shelling still hampering Mariupol evacuation

Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.

Close Select Template Attachments Reply Author Spell Check Forward Drafts

From: KV0N

To: KV0N

Cc:

Subject:

Attach:

Template Manager

Select Close Add Remove Edit

Standard Templates (version 1.0.209.0)

- ARC Forms
- CA STATE Forms
- CANADIAN Forms
- FEMA Forms
- FMRE Forms
- GENERAL Forms
- GENERAL MEDICAL Forms
- HI STATE forms
- HICS Forms
- IARU Forms
- ICS USA Forms
 - ICS202 Incident Objectives.txt
 - ICS203 Organizational Assignment.txt
 - ICS204 Assignment List.txt
 - ICS205 Radio Plan.txt
 - ICS205A Communications List.txt
 - ICS206 Medical Plan.txt
 - ICS208 Safety Message Plan.txt
 - ICS210 Resource Status Change.txt
 - ICS213 General Message.txt
 - ICS213RR Resource Request Message.txt
 - ICS214 Activity Log.txt
 - ICS214A Individual Activity Log.txt
 - ICS215A Incident Safety Analysis.txt
 - ICS217A Communications Worksheet.txt
 - ICS309 Communications Log.txt
- MAPPING-GIS FORMS

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Packet Winlink Logs Help

No active session...

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (20)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO

SAILDOCS_QUERY

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2022/08/02 01:15	A4A66H8478PD	4302	SMTP	SMTP:query-repl...	KV0N	http://www.bbc.com/news
2022/05/30 13:39	QT2LEIO7QT72	627	K0ITP	K0ITP	KV0N	Re: May club event - I participated in a LARC Event!
2022/05/17 15:49	5GD35P2K3GTB	861	N0OUW	N0OUW	KV0N	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
2022/03/30 16:20	GU04DR8D3QEC	593	KK6DA	KK6DA	KV0N	Re: Cat?
2022/03/29 21:40	MZORDYNEPZC9	354	SYSTEM	SERVICE	KV0N	Inquiry Alert Re: WL2K_NEARBY
2022/03/18 17:13	TZ63GDTJR2H	361	CMS	SERVICE	KV0N	Service Advice Message
2022/03/18 17:00						

Enter a new message

Message ID: ET1KXYX
Date: 2022/03/18 17:00
From: query-reply@...
To: KV0N
Source: SMTP
Downloaded-from: Te...
Subject: http://www...
URL: http://www.bbc...
Date: 18 Mar 2022

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Zelensky: Russian shelling still hampering Mariupol evacuation

Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.

Template Manager

Select Close Add Remove Edit

Standard Templates (version 1.0.209.0)

- ARC Forms
- CA STATE Forms
- CANADIAN Forms
- FEMA Forms
- FMRE Forms
- GENERAL Forms
 - Bulletin.txt
 - Field Situation Report 26.txt
 - GPS Position Report.txt
 - Incident Action Plan.txt
 - Incident After Action Report.txt
 - Incident Status Report.txt
 - Information.txt
 - Narrative Situation Report.txt
 - Quick Message.txt
 - Quick WEB EOC Resource Request.txt
 - Race Tracker.txt
 - Radio Net Log .txt
 - Welfare Message.txt
 - Windshield Damage Survey.txt
 - Windshield Damage Worksheet.txt
 - Winlink Check In.txt
 - Winlink Check Out.txt
- GENERAL MEDICAL Forms
- HI STATE forms
- HICS Forms
- IARU Forms

Winlink Check In

Setup

Click to add your agency/group name to title

Load Check in Data

Form Info

This is for an initial check in via Winlink Express. Also sent as plain text in message body for non-Express users.

Date/Time2022-10-13 20:08:47

Select Status

Exercise

Net

REAL EVENT

-N/A-

VHF

220

Band

Mode

Telnet

Packet

Ardop

Send To

AC0KQ

Clear ALL "Send To" Entries.

Entries will remain until you change or clear them

Calls Signs of Initial On-Site Operator(s)

KV0N

Station Contact Name:

Raman Sinha

Station Call sign

KV0N

Location

in QRV1 above Finish

Latitude and longitude: LAT

39.9792

LON

MGRS

-105.1250

13SDE8932625456

Grid

DM79kx

LAT/LON and MGRS default to the center of the grid square listed in Express Settings, unless a GPS is used or Lat/LON or MGRS must be entered manually. Without properly formatted GPS coordinates this form cannot be mapped in Winlink Express.

Comments

Max Characters 220

QRV1 is on the air using Kremmeling repeater. 70cm not needed.

Save Check in Data

Submit

Reset Form

Ver 4.0.8.5

Check In-Initial

file:///C:/RMS Express/KV0N/Temp/Winlink_Check_In_Initial.html

Search

Winlink Check In

Setup

Click to add your agency/group name to title

Load Check in Data

Form Info

This is for an initial check in via Winlink Express. Also sent as plain text in message body for non-Express users.

Date/Time2022-10-13 20:08:47

Select Status

ExerciseNetREAL EVENT

Band

-N/A-VHF220

Mode

TelnetPacketArdop

Send ToAC0KQ

Clear ALL "Send To" Entries.

Entries will remain until you change or clear them

Calls Signs of Initial On-Site Operator(s)KV0N

Station Contact Name:Raman Sinha

Locationin QRV1 above Finish

Latitude and longitude: LAT39.9792

Don't allow this site to prompt you again

LAT/LON and MGRS default to the center of the map. Without properly formatted GPS coordinates, MGRS must be entered

CommentsMax Characters 220

QVR1 is on the air using Kremmeling repeater. 70cm not needed.

Save Check in Data

Submit

Reset Form

Ver 4.0.8.5

file://

To complete your form submission, click OK and close the open browser window. You will return to the new message window so you can post your message to the outbox

OK

Cancel

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Packet Winlink Logs Help

No active session...

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (20)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

Global Folders

Contacts

- SAIDOCs_INFO
- SAIDOCs_QUERY

Enter a new message

Close Select Template Attachments Post to Outbox Spell Check Save in Drafts

From: KV0N Send as: Winlink Message ☐ Request message receipt Set Defaults

To: AC0KQ

Cc:

Subject: Winlink Check in Net - KV0N - in QRV1 above Finish

Attach: RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.txt

Check-in
Status: [Net]
Date/Time: 2022-10-13 20:08:47
Initial Assigned Operators: KV0N
Station Contact Name: Raman Sinha
Call/Tactical Sender: KV0N
Location: in QRV1 above Finish
GPS Coordinates: LAT 39.9792 LON -105.1250 MGRS Coordinates: 13SDE8932625456 Grid Square: DM79kx
Band Used: -N/A-
Session Type: Telnet
Call/Tactical Sender: KV0N

Comments:

QVR1 is on the air using Kremmeling repeater. 70cm not needed.

Below Info Used for Copy and Paste to Spreadsheet

TAB Delimited:

Date/Time	From	To	Initial Assigned Operators	Station Contact Name	Call/Tactical Sender	Location	GPS Coordinates	MGRS Coordinates	Grid Square
2022-10-13 20:08:47	KV0N	KV0N	Raman Sinha	in QRV1 above Finish	39.9792;-105.1250	13SDE8932625456	DM79kx	-N/A-	Telnet

Semicolon Delimited Values:

2022-10-13 20:08:47;KV0N;KV0N;Raman Sinha;in QRV1 above Finish;39.9792;-105.1250;13SDE8932625456;DM79kx;-N/A-;Telnet;QVR1 is on the air using Kremmeling repeater. 70cm not needed.

Winlink Check in 4.0.8.4
[No changes or editing of this message are allowed]

Zelensky: Russian shelling still hampering Mariupol evacuation
Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Packet Winlink Logs Help

No active session...

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (20)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

Global Folders

Contacts

- SAIDOCs_INFO
- SAIDOCs_QUERY

Enter a new message

Close Select Template Attachments Post to Outbox Spell Check Save in Drafts

From: KV0N Send as: Winlink Message ☐ Request message receipt Set Defaults

To: AC0KQ

Cc:

Subject: Winlink Check in Net - KV0N - in QRV1 above Finish

Attach: RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.txt

Check-in
Status: [Net]
Date/Time: 2022-10-13 20:08:47
From: KV0N
To: Raman Sinha
Source: KV0N
Location: in QRV1 above Finish
GPS Coordinates: LAT 39.9792 LON -105.1250 MGRS Coordinates: 13SDE8932625456 Grid Square: DM79kx
Band Used: -N/A-
Session Type: Telnet
Call/Tactical Sender: KV0N

Comments:

QVR1 is on the air using Kremmeling repeater. 70cm not needed.

Below Info Used for Copy and Paste to Spreadsheet

TAB Delimited:

Date/Time	From	To	Source	Location	GPS Coordinates	MGRS Coordinates	Grid Square	Band Used	Session Type	Call/Tactical Sender
2022-10-13 20:08:47	KV0N	KV0N	Raman Sinha	in QRV1 above Finish	39.9792	-105.1250		-N/A-	Telnet	QVR1 is on the air using Kremmeling repeater. 70cm not needed.

Semicolon Delimited Values:

2022-10-13 20:08:47;KV0N;KV0N;Raman Sinha;in QRV1 above Finish;39.9792;-105.1250;13SDE8932625456;DM79kx;-N/A-;Telnet;QVR1 is on the air using Kremmeling repeater. 70cm not needed.

Winlink Check in 4.0.8.4
[No changes or editing of this message are allowed]

Zelensky: Russian shelling still hampering Mariupol evacuation

Ukraine's president says Russian attacks are preventing effective humanitarian corridors from the city, which is being surrounded.

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Packet Winlink Logs Help

No active session...

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2022/10/14 02:15	838EX5U8KMB3	1732	KV0N	KV0N	AC0KQ	Winlink Check in Net - KV0N - in QRV1 above Finish

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (1)
- Sent Items (20)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

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Contacts

SAILDOCS_INFO
SAILDOCS_QUERY

Message ID: 838EX5U8KMB3
Date: 2022/10/14 02:15
From: KV0N
To: AC0KQ
Source: KV0N
Subject: Winlink Check in Net - KV0N - in QRV1 above Finish

-
Check-in
Status: [Net]
Date/Time: 2022-10-13 20:08:47
Initial Assigned Operators: KV0N
Station Contact Name: Raman Sinha
Call/Tactical Sender: KV0N
Location: in QRV1 above Finish
GPS Coordinates: LAT 39.9792 LON -105.1250 MGRS Coordinates: 13SDE8932625456 Grid Square: DM79kx
Band Used: -N/A-
Session Type: Telnet
Call/Tactical Sender: KV0N

Comments:

QRV1 is on the air using Kremmeling repeater. 70cm not needed.

Below Info Used for Copy and Paste to Spreadsheet

TAB Delimited:

```

2022-10-13 20:08:47    KV0N    KV0N    Raman Sinha    in QRV1 above Finish    39.9792,-105.1250    13SDE8932625456
DM79kx -N/A- Telnet QRV1 is on the air using Kremmeling repeater. 70cm not needed.

```

Semicolon Delimited Values:

```

;2022-10-13 20:08:47;KV0N;KV0N;Raman Sinha;in QRV1 above Finish;39.9792,-105.1250;13SDE8932625456;DM79kx;-N/A-;Telnet;QRV1 is on
the air using Kremmeling repeater. 70cm not needed.

```

Winlink Check in 4.0.8.4

No active session.

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2022/10/14 02:15	838EX5U8KMB3	1732	KV0N	KV0N	AC0KQ	Winlink Check in Net - KV0N - in GRV1 above Finish
Read Items (0)							
Outbox (1)							
Sent Items (20)							
Saved Items (0)							
Deleted Items (1)							
Drafts (0)							

No active session.

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2022/10/14 02:15	838EX5U8KMB3	1732	KV0N	KV0N	AC0KQ	Winlink Check in Net - KV0N - in GRV1 above Finish
Read Items (0)							
Outbox (1)							
Sent Items (20)							
Saved Items (0)							
Deleted Items (1)							
Drafts (0)							

No active session.

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2022/10/14 02:15	838EX5U8KMB3	1732	KV0N	KV0N	AC0KQ	Winlink Check in Net - KV0N - in GRV1 above Finish
Read Items (0)							
Outbox (1)							
Sent Items (20)							
Saved Items (0)							
Deleted Items (1)							
Drafts (0)							

No active session.

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2022/10/14 02:15	838EX5U8KMB3	1732	KV0N	KV0N	AC0KQ	Winlink Check in Net - KV0N - in GRV1 above Finish
Read Items (0)							
Outbox (1)							
Sent Items (20)							
Saved Items (0)							
Deleted Items (1)							
Drafts (0)							

No active session.

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2022/10/14 02:15	838EX5U8KMB3	1732	KV0N	KV0N	AC0KQ	Winlink Check in Net - KV0N - in GRV1 above Finish
Read Items (0)							
Outbox (1)							
Sent Items (20)							
Saved Items (0)							
Deleted Items (1)							
Drafts (0)							

No active session.

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2022/10/14 02:15	838EX5U8KMB3	1732	KV0N	KV0N	AC0KQ	Winlink Check in Net - KV0N - in GRV1 above Finish
Read Items (0)							
Outbox (1)							
Sent Items (20)							
Saved Items (0)							
Deleted Items (1)							
Drafts (0)							

Winlink Query Catalog

Categories	Inquiry ID	Description	Size
WX_CROATIA	FQCN13.CWTO	Great Lakes & St Lawrence R	901
WX_EASTPAC	FQCN13.CWUL	St Lawrence & Saguenay Rivers	3159
WX_FAROE	FQCN19.CWTO	L Nipigon, L of the Woods, N.Channel, L Simcoe, L Nipissing	2452
WX_FAX	FQCN23.CWTO	Wave Heights Great Lakes	1394
WX_FRANCE	FQCN30.CWTO	MAFOR Great Lakes	750
WX_GLOBAL	FQCN53.CWTO	Extended Marine Forecast Great Lakes & St Lawrence R	1567
WX_GT_LAKES	FZUS61.KBUF	Lake Ontario (US)	2869
WX_HIGH_SEAS	FZUS61.KCLE	Lake Erie (US)	6435
WX_LABRADOR	FZUS63.KDTH	Lake Huron (US)	3734
WX_MANITOBA	FZUS63.KLOT	Lake Michigan (US)	5329
WX_MARITIMES	FZUS63.KMQT	Lake Superior (US)	9644
WX_MED	GLCWV-00.GIF	Great Lakes - Lake St Clair Wave Height	32516
WX_NAVTEX	HWV-00.GIF	Great Lakes - Lake Huron Wave Height	27313
WX_NFLD	LCZ460_LC	Lake St Clair (FZUS63 & LCZ460)	2038
WX_NOAA	LHWIN.PNG	Great Lakes - Lake Huron Wind and Surface Currents	62941
WX_NORTH_NED	LMWIN.PNG	Great Lakes - Lake Michigan Wind and Surface Currents	62941
WX_NORTHSEA	LSWIN.PNG	Great Lakes - Lake Superior Wind and Surface Currents	68440
WX_NORWAY	MWV-00.GIF	Great Lakes - Lake Michigan Wave Height	97115
WX_OFFSHORE	ONWIND.PNG	Great Lakes - Lake Ontario Wind and Surface Currents	53957
WX_PACIFIC			
WX_PANAMAR			
WX_PORTUGAL			
WX_S_AFRICA			
WX_SPAIN			
WX_SWEDEN			
WX_UK			
WX_US			
WX_US_COAST			
WX_US_GUAM			
WX_US_HAWAII			
WX_US_PR			
WX_US_SAMOA			
WX_VBUOY			

Below Info Used for Copy and Paste to Spreadsheet

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Telnet Winlink Logs Help

No active session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (1)
- Sent Items (20)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO
SAILDOCS_QUERY

Winlink Query Catalog

Categories	Inquiry ID	Description	Size	Selections
WX_CROATIA	FQCN13.CWTO	Great Lakes & St Lawrence R	901	
WX_EASTPAC	FQCN13.CWUL	St Lawrence & Saguenay Rivers	3159	
WX_FAROE	FQCN19.CWTO	L Nipigon, L of the Woods, N Channel, L Simcoe, L Nipissing	2452	
WX_FAX	FQCN23.CWTO	Wave Heights Great Lakes	1394	FQCN23.CWTO GLCWV-00.GIF
WX_FRANCE	FQCN30.CWTO	MAFOR Great Lakes	750	
WX_GLOBAL	FQCN53.CWTO	Extended Marine Forecast Great Lakes & St Lawrence R	1567	
WX_GT_LAKES	FZUS61.KBUF	Lake Ontario (US)	2869	
WX_HIGH_SEAS	FZUS61.KCLE	Lake Erie (US)	6435	
WX_LABRADOR	FZUS63.KDXT	Lake Huron (US)	3734	
WX_MANITOBA	FZUS63.KLOT	Lake Michigan (US)	5329	
WX_MARITIMES	FZUS63.KMQT	Lake Superior (US)	9644	
WX_MED	GLCWV-00.GIF	Great Lakes - Lake St Clair Wave Height	32516	
WX_NAVTEX	HWV-00.GIF	Great Lakes - Lake Huron Wave Height	27313	
WX_NFLD	LCZ460_LC	Lake St Clair (FZUS63 & LCZ460)	2038	
WX_NOAA	LHWIN.PNG	Great Lakes - Lake Huron Wind and Surface Currents	62941	
WX_NORTH_NED	LMWIN.PNG	Great Lakes - Lake Michigan Wind and Surface Currents	62941	
WX_NORTHSEA	LSWIN.PNG	Great Lakes - Lake Superior Wind and Surface Currents	68440	
WX_NORWAY	MWV-00.GIF	Great Lakes - Lake Michigan Wave Height	97115	
WX_OFFSHORE	ONWIND.PNG	Great Lakes - Lake Ontario Wind and Surface Currents	53957	
WX_PACIFIC				
WX_PANAMAR				
WX_PORTUGAL				
WX_S_AFRICA				
WX_SPAIN				
WX_SWEDEN				
WX_UK				
WX_US				
WX_US_COAST				
WX_US_GUAM				
WX_US_HAWAII				
WX_US_PR				
WX_US_SAMOA				
WX_VBUOY				

Double click to add or delete query selections.

Post Request

Last Update
2022/10/14 02:19

Update catalog list

Update via Internet

Request update via radio

Cancel

Below Info Used for Copy and Paste to Spreadsheet

TAB Delimited:

```

2022-10-13 20:08:47      KV0N      KV0N      Raman Sinha      in QRV1 above Finish      39.9792,-105.1250      13SDE8932625456
DM79kx -N/A- Telnet QRV1 is on the air using Kremmeling repeater. 70cm not needed.

```

Semicolon Delimited Values:

```

;2022-10-13 20:08:47;KV0N;KV0N;Raman Sinha;in QRV1 above Finish;39.9792,-105.1250;13SDE8932625456;DM79kx;-N/A-;Telnet;QVR1 is on
the air using Kremmeling repeater. 70cm not needed.

```

Winlink Check in 4.0.8.4

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
-----------	------------	------	--------	--------	-----------	---------

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Telnet Winlink Logs Help

In Telnet Winlink session.

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2022/05/24 0...	R73E5KMT8...	1618	KV0N	KV0N	N00UW	Winlink Check In [Exercise]-KV0N-Home
	2022/05/24 0...	45E1HK2WOK...	1063	KV0N	KV0N	N00UW	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
	2022/05/17 02:08	65A8WYNGZZT2	1612	KV0N	KV0N	N00UW	Winlink Check In [Net]-KV0N-Lafayette, Colorado
	2022/03/30 05:03	70YNY3PFE5ZS	410	KV0N	KV0N	KK6DA	Cat?
	2022/03/30 04:40	3C6LB67BQNF1	150	KV0N	KV0N	INQUIRY	REQUEST
	2022/03/19 00:16	MLTQQRMEWG...	141	KV0N	KV0N	info@saildocs.com	info
	2022/03/19 00:12	T2UFE8NKMBYR	145	KV0N	KV0N	query@saildocs...	Info

System Folders

Inbox (1 unread)

Read Items (0)

Outbox (0)

Sent Items (22)

Saved Items (0)

Deleted Items (1)

Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO

SAILDOCS_QUERY

Telnet Winlink Session

Exit Settings Start Stop Time to next Autoconnect = 15:00

Date: ...

From: ...

To: qu...

Source: ...

Subject: [WL2K-5.0-B2FWIHJMS]

info: ...

CM5>

:FW: KV0N

[RMS Express-1.7.0.0-B2FHM5]

:PR: 60000021

: WL2K DE KV0N (DM79KQ)

FF

PM: KV0N RBUA52ZUSK8N 908 SERVICE@winlink.org INQUIRY - https://tgftp.nws.noaa.gov/data/raw/fq/fqcn23.cwto.txt

PM: KV0N 6ALOCJUC4D38 25977 SERVICE@winlink.org INQUIRY - https://www.glerf.noaa.gov/emf/waves/WW3/images/ww3gle-0.png

FC EM RBUA52ZUSK8N 1895 908 0

F> 2C

FS Y

*** Receiving RBUA52ZUSK8N

*** RBUA52ZUSK8N - 1854/890 bytes received

*** Bytes: 988, Time: 00:00, bytes/minute: 1301233

FF

FC EM 6ALOCJUC4D38 33785 25977 0

F> D6

FS Y

*** Receiving 6ALOCJUC4D38

Winlink Express 1.7.0.0 - KV0N

KV0N
Settings
Message
Attachments
Move To: Saved Items
Delete
Open Session: Telnet Winlink
Logs
Help

In Telnet Winlink session.

System Folders
Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (22)
Saved Items (0)
Deleted Items (1)
Drafts (0)

Personal Folders

Global Folders

Contacts
SAILDOCS_INFO
SAILDOCS_QUERY

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2022/05/24 0...	R73E5KMT8...	1618	KV0N	KV0N	N00UW	Winlink Check In [Exercise]-KV0N-Home
	2022/05/24 0...	45EIHK2WOK...	1063	KV0N	KV0N	N00UW	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
	2022/05/17 02:08	65A8WYNGZZT2	1612	KV0N	KV0N	N00UW	Winlink Check In [Net]-KV0N-Lafayette, Colorado
	2022/03/30 05:03	70YNY3PFE5ZS	410	KV0N	KV0N	KK6DA	Cat?
	2022/03/30 04:40	3C6LB67BQNF1	150	KV0N	KV0N	INQUIRY	REQUEST
	2022/03/19 00:16	MLTQQRMEWG...	141	KV0N	KV0N	info@saildocs.com	info
	2022/03/19 00:12	T2UFE8NKMBYR	145	KV0N	KV0N	query@saildocs....	Info

Message ID: T2UFE8NKMBYR
Date: 2022/03/19 00:12
From: KV0N
To: query@saildocs.org
Source: KV0N
Subject: Info

info

Winlink Express 1.7.0.0 - KV0N

KV0N

Settings

Message

Attachments

Move To: Saved Items

Delete

Open Session: Telnet Winlink

Logs

Help

In Telnet Winlink session.

System Folders

Inbox (0 unread)

Read Items (0)

Outbox (0)

Sent Items (22)

Saved Items (0)

Deleted Items (1)

Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO

SAILDOCS_QUERY

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2022/10/14 02:22	6ALOCJUC4D38	26241	SYSTEM	SERVICE	KV0N	INQUIRY - https://www.glerl.noaa.gov/emf/waves/WW3/images//ww3gle-0.png
	2022/10/14 02:22	RBUA52ZUSK8N	970	SYSTEM	SERVICE	KV0N	INQUIRY - https://tgftp.nws.noaa.gov/data/raw/fq/fqn23.cwto.txt
	2022/08/02 01:15	A4A66H8478PD	4302	SMTP	SMTP:query-repl...	KV0N	http://www.bbc.com/news
	2022/05/30 13:39	QT2LEIO7Q172	627	K0ITP	K0ITP	KV0N	Re: May club event - I participated in a LARC Event!
	2022/05/17 15:49	5GD35P2K3GTB	861	N0OUW	N0OUW	KV0N	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado
	2022/03/30 16:20	GU04DR8D3QEC	593	KK6DA	KK6DA	KV0N	Re: Cat?
	2022/03/29 21:40	MZORDYNEPZC9	354	SYSTEM	SERVICE	KV0N	Inquiry Alert Re: WL2K_NEARBY

Message ID: 6ALOCJUC4D38

Date: 2022/10/14 02:22

From: SERVICE

To: KV0N

Source: SYSTEM

Downloaded-from: Telnet:cms.Winlink.org

Subject: INQUIRY - https://www.glerl.noaa.gov/emf/waves/WW3/images//ww3gle-0.png

Resource URL: https://www.glerl.noaa.gov/emf/waves/WW3/images//ww3gle-0.png

Inquiry ID: GLCWV-00.GIF

Attachment: ww3gle-0.jpg

Note: The image file was very large as requested and has been altered to allow processing.

=====

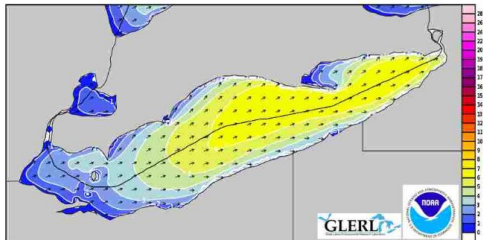
Thanks for using Winlink, an Amateur Radio Safety Foundation sponsored project. For information about Winlink or to manage your Winlink account please visit: https://www.winlink.org

For information on how you can help support Winlink and other Amateur Radio Safety Foundation projects please visit: https://www.arsfi.org

46

Wave Watch III Significant WaveHeight (ft) & Direction
Valid Time: 2022-10-14 0100 UTC
Init Time: 2022-10-14 0100 UTC

Thu Oct 13 08 PM EST
Thu Oct 13 07 PM CST
Forecast Hour: 0



ww3gle-0.png

p.nws.noaa.gov/data/raw/fq/fqcn23.cwto.txt

news

participated in a LARC Event!

[Net]-KV0N-Lafayette, Colorado

K_NEARBY

processing.

Winlink Express 1.7.0.0 - KV0N

KV0N Settings Message Attachments Move To: Saved Items Delete Open Session: Telnet Winlink Logs Help

In Telnet Winlink session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (22)
- Saved Items (0)
- Deleted Items (1)
- Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO

SAILDOCS_QUERY

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2022/10/14 02:22	6ALOCJUC4D38	26241	SYSTEM	SERVICE	KV0N	INQUIRY - https://www.glerf.noaa.gov/emf/waves/WW3/images/ww3gle-0.png
2022/10/14	Generate ICS-309 Communication Log					nws.noaa.gov/data/raw/fq/fqn23.cwto.txt
2022/08/02						ews
2022/05/30						participated in a LARC Event!
2022/05/17						Net]-KV0N-Lafayette, Colorado
2022/03/30						NEARBY
2022/03/29						

Message ID: 6ALOCJUC4D38
Date: 2022/10/14 02:22
From: SERVICE
To: KV0N
Source: SYSTEM
Downloaded from: https://www.glerf.noaa.gov/emf/waves/WW3/images/ww3gle-0.png
Subject: INQUIRY - https://www.glerf.noaa.gov/emf/waves/WW3/images/ww3gle-0.png

Resource URL: https://www.glerf.noaa.gov/emf/waves/WW3/images/ww3gle-0.png
Inquiry ID: 6ALOCJUC4D38
Attachment: https://www.glerf.noaa.gov/emf/waves/WW3/images/ww3gle-0.png

Note: The image is being processed.

=====

Thanks for using the sponsored product of your Winlink
https://www.vad.fahren.com/

For information:
Amateur Radio
https://www.vad.fahren.com/

Generate an ICS-309 Communication Log as a pdf File

Select Message Mailboxes

☒ Inbox ☐ Outbox ☐ Drafts ☐ Personal 1:
☒ Read ☒ Sent ☐ Deleted ☐ Personal 2:
☒ Saved ☐ Global:

Message Date Range

☐ Limit start date/time: 2022-10-13 20:29 (Local time)
☐ Limit end date/time: 2022-10-13 20:29 (Local time)

Page Layout Options

☐ Separate entry for each recipient
☒ Combine recipients into a single entry

Format of Dates on Report

☐ UTC time

Task ID:
Task Name:
Operational period:
Operator name:
Station ID: KV0N
Output pdf file: C:\Users\vadfahren\Downloads\ICS-309.pdf

In Telnet Winlink session.

System Folders

Inbox (0 unread)
 Read Items (0)
 Outbox (0)
 Sent Items (22)
 Saved Items (0)
 Deleted Items (1)
 Drafts (0)

Personal Folders

Global Folders

Contacts

SAILDOCS_INFO
 SAILDOCS_QUERY

Cropped image of a single layout block

Initial HTML

COMMUNICATIONS LOG				TASK #		DATE PREPARED: 10/13/22 TIME PREPARED: 20:29	
OPERATIONAL PERIOD #				TASK NAME:			
RADIO OPERATOR NAME:				STATION ID. KV0N			
LOG							
TIME	FROM	TO	SUBJECT				
03/08/22 02:19	KV0N	TEST	testing new call sign				
03/15/22 02:59	KV0N	W0UM	213-Weekly Net-Check-in - 3/14/2022 8:00 MST				
03/15/22 03:03	KV0N	N0OUW	213-BCARES Net-Check-in - 3/14/2022 8:00 MST				
03/18/22 11:00	query-reply@saildocs.com	KV0N	http://www.bbc.com/news				
03/18/22 11:00	query-reply@saildocs.com	KV0N	http://www.ari.org/ares-el?issue=current				
03/18/22 11:13	SERVICE	KV0N	Service Advice Message				
03/18/22 17:58	KV0N	INQUIRY	REQUEST				
03/18/22 18:12	KV0N	query@saildocs.org	Info				
03/18/22 18:16	KV0N	info@saildocs.com	info				
03/29/22 15:40	SERVICE	KV0N	Inquiry Alert Re: WL2K_NEARBY				
03/29/22 22:40	KV0N	INQUIRY	REQUEST				
03/29/22 23:03	KV0N	KK6DA	Cat?				
03/30/22 10:20	KK6DA	KV0N	Re: Cat?				
05/16/22 20:08	KV0N	N0OUW	Winlink Check In [Net]-KV0N-Lafayette, Colorado				
05/17/22 09:49	N0OUW	KV0N	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado				
05/23/22 19:54	KV0N	N0OUW	Re: Winlink Check In [Net]-KV0N-Lafayette, Colorado				
05/23/22 20:03	KV0N	N0OUW	Winlink Check In [Exercise]-KV0N-Home				
05/24/22 08:53	KV0N	K0ITP	May club event - I participated in a LARC Event!				
05/30/22 07:39	K0ITP	KV0N	Re: May club event - I participated in a LARC Event!				
05/30/22 19:35	KV0N	N0OUW	213-Packet Check-In-Net Check-in - 2022-05-30 19:33				
05/30/22 19:42	KV0N	K0ITP	Re: May club event - I participated in a LARC Event!				
06/06/22 17:49	KV0N	N0OUW	213-NET Checkin-Net Check-in - 6/6/2022 1748				
07/18/22 19:27	KV0N	N0OUW	Winlink Check In [Exercise]-KV0N-Home				
08/01/22 19:02	KV0N	N0OUW	Winlink Check In [Exercise]-KV0N-Home				



› My Account	› Tools	› News	› Positions	› User Programs	› Book of Knowledge	› Download	› Support
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Play HAMWORD

Created by Mark Kleine, N5HZR, Hamword is a Winlink-based game that mimics the popular five-letter word guessing game, Wordle. This game allows hams to practice their Winlink skills while having fun guessing an unknown five-letter word.

How to Play

Send a five-letter word via Winlink to the tactical call sign HAMWORD. The subject line can be anything, and the message body should contain just your guess. Messages will be graded and returned at 00, 15, 30, and 45 minutes past the hour.

Response Key

Since Winlink doesn't allow text colors, you will receive a five-number "key" to guide you in your next choice. The numbers 0, 1, and 2 return using the following definitions:

- ❑ 0 means the letter above the key is not used in the word you are guessing. (Similar to gray.)
- ❑ 1 means the letter above the key is used in the word you are guessing but is in the wrong location. (Similar to yellow.)
- ❑ 2 means the letter above the key is used in the word you are guessing; and is in the correct location. (Similar to green.)

Leader board

The current leader board and past stats are available at <https://hambooks.org/hamword/>.

Weekly Reset

In this game, the word resets weekly at 00:00Z on Monday (Sunday evening in the United States). So, make your guesses throughout the week and make sure you solve the puzzle before the word resets. You have six chances to solve the puzzle each week.

Have fun!





Summary

1

Treat every event as an Incident and create an Incident Action Plan using the Incident Command System and its accompanying forms.

2

Disseminate the IAP to all interested parties.

3

Consider packet radio to pass completed Forms during longer events or for large amounts of information.

4

ICS and IAP can help recruit club volunteers to make volunteering a better experience for all those involved.



One More Thing

ARRL is Public Service

Amateur Radio is a valuable volunteer emergency communications service and public resource.

[Learn More](#)



ARRL is Advocacy

ARRL is Education

ARRL is Technology

ARRL is Membership



References + Links

<http://www.kv0n.com>
<https://training.fema.gov/is/coursematerials.aspx?code=IS-100.c>
<https://training.fema.gov/icsresource/icsforms.aspx>
<https://www.arrl.org/nbems>
https://www.youtube.com/playlist?list=PLcBrg-5drc84N1GU9zhWwCF9HisFc8L_a
https://www.youtube.com/playlist?list=PLxIJ_fgPLiCQ_RTWnu65jYkDAegOgnhqW
<https://w0eno.org>
<https://indianpeaksradioclub.org>
<http://bouldercountyares.org>
<https://winlink.org/ClientSoftware>

