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Housekeeping

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- Introductions
- Pen/pencil & paper
- Cell phones on silent or vibrate
- Side conversations
- Questions
- Breaks
- Restrooms
- In case of emergency
- No wandering or exploring other areas of the building.

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Overview: Packet Classes

Packet Type III, Part A

- Role of the Packet Operator
- Packet Network Overview
- Packet Network Components
- Packet Station HW & SW
- Accessing the Network
- Standard Workflow

Packet Type III, Part A+

 Packet Operations Self-Paced Exercise workbook

Packet Type II: Advanced Techniques, such as County EOC Packet Station Setup & Operations, Operating without Outpost.

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Packet Type III, Part B

- Packet Operations
- Diagnosing Setup Problems
- Selecting a BBS
- Creating Messages
- Event Documentation
- Productivity Hints
- Exercises

Learning Objectives

At the end of this class, you should be able to:

- Understand the setup and operation of the county EOC radio room packet station
- Set up and use a terminal program to access a BBS
- Without Outpost...
 - Connect to a JNOS BBS
 - Send and receive plain text messages with BBS commands
 - Send and receive PackItForms with BBS commands

A Note on receiving Class Credit

To get credit for this class, there are 3 things that you need to do:

- 1. Attend the classroom session.
- 2. Complete the evaluation by Saturday, one week after the class. See the instructions at the end of this material.
- 3. Complete a short exercise by Saturday, one week after the class.

Fictitious Examples

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- We use fictitious call signs in this presentation to avoid SPAM
- W6XRL4: Herman Munster



 XNDEOC: City of Xanadu Emergency Operations Center



What about Xanadu?

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- Xanadu received lasting fame in the western world thanks to the Venetian explorer Marco Polo's description of it in his celebrated book *Travels* (c. 1298).
- Distant and mysteriously lost Xanadu, thus, came to represent a place of mystery, splendid luxury and easy living.
- Fortunately, you get to visit Xanadu only during Packet classes and Packet exercises.
- Only use an <u>XNDxxx</u> tactical call that has been specifically assigned to you for an exercise or training event and then only for the duration of that event, including any homework follow-up.
- **PLEASE NEVER USE** XNDxxx tactical calls during any other time. Instead, use one of your City's extra tactical calls for practice (with your EC's permission, of course).



COUNTY EOC PACKET STATION SETUP & OPERATIONS

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Packet Net Operations at County EOC

- County message handling can be non-stop action
- Have separate send & receive stations
- Learn to use the automation
 - Automated polling every 5 minutes by Telnet
 - Automated ICS 309 Logging

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- Watch message handling order
- Move the messages to the Traffic Manager as quickly as possible
- Balance outgoing and incoming traffic
- Follow the SCCo Radio Room packet procedures













Eile Edit Format View Help File Edit Format View Help 15-Oct 09:34:40: Outpost/Opsessn v3.5.0 c0: TNC Session # 15-Oct 09:34:40: Outpost/Opsessn v3.5.0 c0: TNC Session # 3019 15-Oct 09:34:40: Using Call Sign KN6PE 15-Oct 09:34:40: Using TNC setup XSC_Kantronics_KPC3-Plus cmd:D 15-Oct 09:34:40: Using BBS setup XSC_W1XSC-1 15-Oct 09:34:40: TncCheck: TNC is ok 15-Oct 09:34:47: TncInit: Complete as KN6PE Can't DISCONNECT, A Link state is: DISCONNECTED cmd:b BEACON EVERY Ø (disabled) 15-Oct 09:34:50: BbsConnect: Connected to W1XSC-1 as user cmd:Echo on ECHO was ON KN6PE 15-Oct 09:34:50: BbsConnect: BBS is JNOS cmd:my KN6PE 15-Oct 09:34:50: BbsDeleteMsgs: Done cmd:Mon.off 15-Oct 09:34:50: BbsSendMsgs: Done 15-Oct 09:34:50: BbsSendMsgs: Done 15-Oct 09:35:03: BBSGetMsgs: Done STREAMEV was OFF cmd:STREAMSW \$00 15-Oct 09:35:17: BBSGetMsgs: Done 15-Oct 09:35:17: BbsSendMsgs: Done STREAMSW was \$7C (|) cmd:connect W1XSC-1 cmd:*** CONNECTED to W1XSC-1 15-Oct 09:35:19: BbsDisconnect: BBS Session closed [JNOS-2.0k.2.xsc.4-B1FHIM\$] You have 0 messages. (#0) > A XSCPERM xscperm: 6 messages - 6 new. Log Settin (#1) > Options I L1: Send/Receive Session window logging FYI...Log Settings has L1 selected by default 12 Send/Receive Interface data trace L3: Send/Receive diagnostic trace Optional: select L2 for additional info L4: Main program diagnostics trace (restart Outpost to apply



Summary of Steps to be Discussed

- What you need to know to operate without Outpost
- Setting up PuTTY for BBS access (serial)
- The connection basics
 - Start of shift: Configure optimized TNC settings
 - Per session: Using you FCC call sign, -OR-
 - Per session: Using a tactical call sign (plus your FCC call sign)
 - End of shift: Restore default TNC settings
- Managing Messages on JNOS
 - Access user and bulletin areas (mailboxes)
 - Read a message
 - Send a message
- Reading notices and bulletins on JNOS
- Working with PackItForms

What you need to know

Operations without Outpost

- 1. Connect Parameters
- 2. TNC Standard Settings and Manual Workflow
- 3. TNC User Commands
- 4. TNC Init Settings
- 5. BBS User Commands
- 6. BBS Init Settings



2. TNC Standard Settings

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Operations without Outpost ... need to know

- SCCo RACES determined the optimum TNC parameters for our BBS system that significantly improves message traffic throughput.
- Document contains parameters for both Outpost and Manual sessions. Details of each parameter are explained.
- See: <u>https://www.scc-ares-races.org/data/packet/index.html</u> → Application Notes → Standard TNC Parameter Settings
 - ... and specifically, the section titled: *Standard TNC Settings* for Manual BBS Sessions







4. TNC Init Settings

Operations without Outpost ... need to know

- Go to the "Standard TNC Settings for Manual BBS Sessions"
- Follow instructions in "Manual Operations Workflow"
- Use the "TNC Commands for Manual Operations" appropriate for your particular TNC

| TNC Type | Manual Ops: Start of Shift | Manual Ops: End of Shift |
|-------------------|----------------------------|--------------------------|
| Kantronics KPC-3+ | INTFACE TERMINAL | STREAMSW \$7C |
| | MONITOR OFF | |
| | CD SOFTWARE | |
| | NEWMODE ON | |
| | 8BITCONV ON | |
| | BEACON EVERY Ø | |
| | SLOTTIME 10 | |
| | PERSIST 63 | |
| | PACLEN 128 | |
| | MAXFRAME 2 | |
| | FRACK 6 | |
| | RETRY 8 | |
| | CHECK 30 | |
| | TXDELAY 40 | |
| | XFLOW OFF | |
| | STREAMEV OFF | |
| | STREAMSW \$00 | |

5. Eight BBS user commands

https://scc-ares-races.org > Data Networking > Packet BBS > Reference > JNOS BBS Information





















Start of Shift: Configure TNC settings

The connection basics

- TNC settings affect overall performance
 - Start with the factory defaults
 - Make other settings for efficient use of the BBS
- To be absolutely positively certain that all TNC settings are at the current SCCo standard values, at the TNC prompt, perform the following:



Start of Shift: Configure TNC settings

The connection basics

- Outpost configures the TNC at the start of each Send/Receive session
- For manual operation, you only need to send these commands once, at the start of your shift

NOTE: Manual Ops commands are slightly different from the Outpost list of commands.







Tactical Call Sign Session – On the Air The connection basics FROM то AX25: XNDEOC->W5XSC-1 CONNECT AX25: W5XSC-1->XNDEOC CONNECT DATA: [JNOS-2.0k.1.xsc.2-B1FHIM\$].You have 0 messages.(#0) >. AX25: XNDEOC->W5XSC-1 DATA: B. Note: Protocol codes have been removed AX25: W5XSC-1->XNDEOC DISCONNECT AX25: XNDEOC->CQ DATA: This is w6xrl4. The extra converse mode packet lets you identify your station XNDEOC as FCC call sign W6XRL4 • XNDEOC is not a legal call sign • Keep session under 10 minutes and use ID process at the end of session to satisfy the FCC requirements. Copyright 2011-2024 Santa Clara County ARES®/RACES. All righ







HELP

JNOS Commands

• Basic commands can be seen with HELP command

| | To get hel The follow | p for a spe ing command | ecific comman Is have help | d, enter 'h c descriptions | ommand', available fo | or them: | |
|------|---------------------------------------------------------------------|------------------------------------------|----------------------------------------|---------------------------------------------------|------------------------------------------|-----------------------------------------------------|--|
| Area | alias escape jheard operator send zap : w6xrl4 (# | area finger kill ping telnet | bye help list ports upload | connect iheard mboxuser query verbose | convers info nodes read what | download iproute nroutes register xpert | |
| | | | | | | | |









LIST

JNOS Commands

- Displays a list of the messages from the current mailbox (or "area")
 - L by itself will display the headers for all <u>unread</u> messages, if any.
 - LA list all messages, read or unread



READ JNOS Commands • R[ead] # R[ead] <msg_number_or_range> • To read a specific message, you may either type "R #" or just the number by itself. RM will display all unread messages, sequentially. COM3 - PuTTY St. # TO FROM DATE SIZE SUBJECT > N 1 w6xrl4 xndeoc Nov 2 454 XND-133P_R_Jelly Donut Request xndeoc Nov 2 443 XND-132P_R Jelly Donut Delivery No N 2 w6xrl4 Area: w6xrl4 (#1) > r 2 Message #2 Date: Mon, 2 Nov 2017 21:00:05 PDT From: xndeoc@w5xsc.ampr.org To: w6xrl4 Subject: XND-132P_R_Jelly Donut Delivery Notification Donut will be delivered by 9AM Area: w6xrl4 (#2) >

KILL

JNOS Commands

 The KILL command allows you to delete messages from your mailbox

K[ill] <message_number>

- At least one message number must be supplied. The message numbers you can select from can be displayed with the "L[ist]" command.
- Messages will not disappear until you disconnect and connect again



Send Copy JNOS Commands The send copy command allows you to enter a message and send it to multiple users SC <user>@<domain> Enter the send copy command with <u>one</u> address JNOS responds with "Cc:" - Enter other addresses to receive a copy, separated with commas COM1 - PUTTY (#1) > sc w6xr14@w5xsc Cc: xndeoc@w5xsc,xnd099@w5xsc,xnd098@w5xsc Subiect: MXM-449P <u>R Multiple addresses</u> Enter Message. End with /EX or ^Z in first column (^A aborts): <u>This is a test message with multiple addresses.</u> Msg queued (#1) >

BYE

JNOS Commands

- When you are all done with the BBS, disconnect from the BBS
 B[ye]
- On disconnecting
 - Outgoing messages will be processed
 - Deleted (killed) messages will be removed







FYI... Manual message basics Saving the message There are reasons to save the message before sending it You have copy for your records. You can save all your messages before sending them. Avoids having to re-enter the message if something goes wrong. Where you save the message is up to you. But: If this is your PC, then save them anywhere where you can find them. If this is a shared PC, then create a directory on the C: Drive. For instance: your directory structure could look like this: C:\MyMessages C:\MyMessages\XND-24-1009T (activation number) Use the message subject as the name of the file.



NOTICE

Bulletin Review

Bulletins



- Bulletins are messages intended for a broad audience
- The SCCo BBSs support two types of bulletins:
 - Notices are a special type of bulletin specific to Santa Clara County
 - Only distributed to SCCo BBSs (W*XSC)
 - SCCo uses 3 special categories for specific content
 - General Bulletins are globally compatible, used for everything else
 - User-defined category (e.g.: "equake", "ARES") identifies content
 - User-defined *distribution* controls how widely it is distributed (e.g.: "XSC", "BAY", "NCA", etc.).
- Regardless of the bulletin type, when configured in Outpost, Outpost will automatically download them

SCCo Notice Areas

Bulletins

- SCCo ARES/RACES has three special *notice* categories:
 - xscperm
 - Used for notices that do not expire
 - examples: standard county procedures
 - xscevent
 - Notices posted here automatically expire after 8 days
 - examples: Drills, public service events, incidents, other activations
 - xsctest
 - Good for user testing; automatically expires after 1 day
 - allxsc
 - Where you can write city and jurisdiction notes
 - Notices posted here automatically expire after 8 days

General Bulletins Overview

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Bulletins

- Bulletins are messages that are intended for broad readership
- Bulletins content varies from amber alerts and earthquake reports to jokes and recipes
- Bulletin sender controls how widely the bulletin is distributed
 - Can be as narrow as "local" (this BBS only)
 - Can be as wide as "ww" (worldwide!)
- In JNOS, bulletins are sorted into shared areas (mailboxes) for easier reading

General Bulletins – Why Do They Matter? *Bulletins*

- Standard way to distribute information between BBSs of all types throughout the world
- Use them for fun or for emergency communications
- Use them for distributing information to broader areas:
 - Santa Clara County
 - San Francisco Bay area
 - Northern California
 - All California
 - And wider ...
- Example:
 - During the 2009 cable cut, information about anticipated service restoration times were distributed via bulletins by a ham who had information from the telecom carrier

General Bulletin Addresses Bulletins

- Address format: category@distribution
- Distribution
 - A six-character or shorter keyword which defines how widely the bulletin will be distributed
 - Sender picks from a pre-defined list
 - Acceptable distributions:
 - local Local BBS only
 - xsc XSC Operational Area (Santa Clara County)
 - bay San Francisco and Monterey Bay area
 - nca No. California (generally north of the Tahachapi Mountains)
 - ca California
 - wusa Western USA (generally, West of the Mississippi River)
 - usa United States of America
 - noam North America (Canada, USA, Mexico, ...)
 - ww worldwide

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General Bulletin Addresses (continued)

Bulletins

- Address format: category@distribution
- Category:
 - A six-character or shorter description of the main topic of the bulletin.
 - Sender picks the category based on the contents of the bulletin
 - Example categories:
 - amber Amber alerts
 - equake Earthquake reports
 - flood Flood reports
 - tech technical topics, schematics, discussion
 - mtv, cup, sjc, etc. City bulletins
 - humor or humour jokes, stories, etc.
 - Any category works on our SCCo BBSs because we sort bulletins by distribution, not category
 - Uncommon/unusual categories may be held on other BBSs until the sysop decides where it should go

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General Bulletin Addresses (continued) Bulletins

- Example bulletin addresses:
 - mtv@xsc
 - City of Mountain View information for distribution to all BBSs in Santa Clara County
 - flood@bay
 - Information about flooding for distribution to all BBSs in the San Francisco and Monterey Bay areas
 - equake@nca
 - Information about an earthquake for distribution to all BBSs in Northern California
 - swpc@ww
 - Space Weather Prediction Center reports for distribution to all
 BBSs worldwide
 - humour@ww
 - Variety of jokes and funny stories

Reading General Bulletins Bulletins

- Use a terminal program like PuTTY
 - Read only the bulletins of interest
 - Be selective when listing and reading
- Read bulletins just like mail
 - Find out what areas are available
 - AREA
 - Select a bulletin area
 - AREA <area_name>
 - List bulletins
 LA
- (list all)
- L> <category_name> (where category_name matches the messages' To: field, ex: equake@ww)
- Read a bulletin
 - R #









Submitted for your approval...



- You just arrived at **XND Fire Station 14** to take over as Packet Operator. This is great... Your first MAC assignment!
- As you enter, the last shift Packet Op rushes past you saying... "there's a couple of ICS 213's on the desk to be sent!"
- At least you won't be bored.

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- Over your shoulder, you hear him yell back... "Oh yeah, I could never get Outpost to work after IT updated Windows... and they just left."
- The PC is running; you click the Outpost icon... Error; and you have never seen this error before ☺
- OK, deep breaths. You know what to do, right?

Manual PackItForms

Fortunately, PackItForms is a message creation system designed to work with both Outpost or as a *standalone* solution for forms-based messages.

- Enhanced standalone message management, including:
 - Manages setting up and using user and tactical IDs
 - Takes care of message numbering
 - Includes a Plain Text message form
 - Creates a standalone ICS-309 log
 - Creates copy-ready text (all BBS commands) to paste into PuTTY
 - Easy message saving
- What's the same
 - Tight integration with Outpost
 - Supports all PackItForms

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- Formats a standard packet form for sending
- Processes a received packet form

Get ready for Manual PackItForms

Things to do before you get started:

- 1. Create a directory where you will save your messages.
 - Consider a naming convention that is relevant for your assignment, examples:
 - C:\MyMessages\XND-24-1009T C:\PacketMessages\2024-10-09 C:\Xanadu_Station_14

(by activation number) (by date) (by assignment)

- 2. Identify a starting message number
 - Assigned to you or your choice; PackItForm will append an M for Manual to make it unique.

| + | \rightarrow | 5 0 | Ŷ | C | Ģ | > 1 | 'his PC | > OS (C | :) > | MyM | essages |
|---|---------------|--------|-------|---|---|-----|----------|---------|------|--------|---------|
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| | Driv | ers | | | | | Logs | | | | |
| | MyN | Messag | es | | | - | Misc | | | | |
| | Lo | gs | | | | - | XND-24-1 | 009T | | | |
| | Mi | isc | | | | | | | | | |
| | VA | 10.24 | 10007 | | | | | | | | 1 |
| | - ^ | 40-24- | 10091 | | | | _ | | | | |

Manual PackItForm messages

Manually create and send a PackItForm message

- 1. Run PackItForms with the manual.cmd
- 2. Set up your user ID, tactical ID, and other fields
- 3. Pick and fill in a PackItForm
- 4. Create the packet message
- 5. Send the message with PuTTY
- 6. Save a copy of the message



















A note on manual plain text messages



Manual PackItForm messages

Receiving messages

- 1. Receive messages from the BBS using PuTTY
- 2. Save the message
- 3. Once you have the message saved, delete the message off of the BBS (use the Kill # command)

Note: All SCCo BBSs have a 2-minute inactivity timer!





2. Recover the PackItForm message

<u>Home Page</u>

Back at the Browser, get back to the **SCCo PackItForms** tab

 Put your cursor in the "View a received message" section and enter <ctrl>V or Edit > Paste to paste in the received message.

6. Press Log and View.

- This entry is logged to the ICS 309
- The received PackItForm is opened in its PackItForm.
- A copy of the message is saved
- Once the PackItForm is opened, print and hand it off for delivery.

| | Forms for Outpost (Publix 127.0.0.1:54873/manual-comm | lan |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| ⊢ → C | | |
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| etup Edit ICS-3 | 309 Log | |
| 'reate a messar | ne to send | |
| Message type: | v v | |
| Create Messag | e | |
| | | |
| | | |
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| fiew a received Enter the receive Message: 9a 9b Upload 10 | message ed message, including the From, Subject and other he :: (Xanadu Fice Station 14) :: (Republer: Status) | ade |
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| Tiew a received Enter the received Message: 9a 9b Upload 10 12 Download 00 00 00 00 00 00 00 00 00 00 00 00 00 | message od message, including the From, Subject and other hes :: [Xanadu ECC] :: [Support First Status] :: [Support First | əde |
| Filew a received Enter the receive Message: 9- Upload 10 12 Download 0- 00 00 00 00 00 00 00 00 00 00 00 00 0 | message ed message, including the From, Subject and other he- :: [Xanadu ECC] = : [Andue Gires Station 14] :: [Equipment Status] :: [All equipment is ready for-deployment.] Call : [WAXH4] mess [Herman Huncter] her: [Nexket] Dete: [10/14/2024] time: [LT226] WOON | ade |
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| Frace All cloars the | Time (24:00) | Call Sign/ID | Msg # | Call Sign/ID | Msg # | Message | | |
| Erase All – clears the | 13:49 | XND022 | X22-121M | XNDEOC@w1 | - | R_Check-In XND | 22, Kios _ | |
| form. Also, Undo Erase | 14:27 | XND022 | X22-123M | XNDEOC@w1 . | | R_ICS213_Openir | g Status | a 🕀 |
| All – restores the form. | 14:41 | xndeoc@w1 | _ XND-3001P | XND022 | X22-124M | R_ICS213_openin | g status _ | |
| Concrato CSV Filo | 15:13 | xndeoc@w1 | _ XND-2009P | XND022 | X22-126M | R_ICS213_4-hour | festiva _ | |
| Generate CSV File - | 15:33 | XND022 | X22-127M | XNDEOC@w1 | · | I_EOC213RR_XANA | DU PICNI | |
| creates a .csv file of the Comm Log. | 109:20 | 7 | ×14-3121 | ANDEOCENT | | | | |
| Print – prints the Comm | 09:26 | XND014 | X14-313M | XNDEOC@w1 . | | R_Check-Out XN | 0014, Fir . | a 🕀 |
| Log to the selected | 09:37 | xndeoc | EOC-1245P | XND@xsc | | R_Report Statio | on/Staff _ | a 🕀 |
| | hh:mm | | | | | | | \oplus |
| printer. | 6. Prepare | d By (Name, Call | Sign) | 6A. Signature | | 7. Date & Time Prepared | | |
| Save - Saves any changes | m/d/yyyy hh:mm | | | | | | h:mm | |















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