Digging Deeper.....

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What we will cover next.

- Details on “Enter Sends Message” (ESM) for faster rates
- How to configure for RTTY contests, loading the MTTY plug-in, and configuring
- How to Network computers for multi-station contesting, or keeping a “real-time” back-up log on another computer
- Customizing the Function Message Buttons
- Evaluating N1MM Contest Statistics
Enter Sends Message (ESM)

- Used to partially automate the contest logging process

Click this box to activate
Enter Sends Message (ESM)

- Hitting ENTER key moves to next Function button automatically, and sends that message, or performs that task (Log It)
- Works great in CW and RTTY contests
- Not needed in Phone contests unless you are using digital voicing
- Next F key to use is highlighted in yellow
More on “Enter Sends Message”

• When in **RUN** mode, sequence is:

(F1=CQ) - (enter callsign) – (F2=Exch) – (they give exchange)- (F3=TU) - (Log it) – (F1=CQ lit again)

• When in **S&P** mode, sequence is:

(F4 = send your callsign)- (enter their callsign) – (F2=Exch) – (Log it) - (blank entry window, F4 lit again)
ESM Example

Back to CQ
Things have improved in RTTY over the years!
The MTTY Software

- Written by JE3HHT - Makoto Mori
- Another FREE software package (new version in beta)
- Normally a stand-alone program, but N1MM uses MTTY for the RTTY engine
- Suggest putting the software into C: root directory, in folder called “MTTY”. REMEMBER WHERE YOU DOWNLOADED IT TO!
N1MM RTTY Set up

1. Open the Config Window, then select “Digital Interface”

2. Then point N1MM to where the MTTY.EXE file is located

Note!

Select AFSK (soundcard), or FSK Here too!

Select AFSK (soundcard), or FSK
N1MM RTTY Set-up, Radio Mode

- Open the Config menu option again
- Make sure that mode control is where you want it if using AFSK, otherwise radio might default to RTTY/PKT mode!

Change to LSB if using AFSK (soundcard)
Setting the frequency offset if using AFSK

• Remember that AFSK uses LSB for operation, so frequency is offset by about 2.1 KHz. To correct we need to turn the Auto TRXUpdate setting “ON”

• If you don’t correct, you can no longer just click on the bandmap spots and be where you want to be!

• To fix, click on the Window option, then Digital Interface, then Setup
Using MTTY and N1MM

Callsigns are the “color of usefulness”

Just click on the callsigns, (or even the exchanges), and they automatically get loaded into the Entry window!
Some Hints with MTTY

- Most of the time, the defaults are OK
- Some Recommendations
  - Turn AFC button “OFF”
  - Make sure HAM button is clicked “ON”
  - Check position of squelch bar
  - Turn NET “ON” for S&P, “OFF” for RUN mode
  - Turn BPF “ON” if using AFSK. If using FSK and RTTY mode, leave “OFF”
  - If you have problems decoding with AFSK, check if you are in LSB or USB, or click the REV button
Custom Messages - The Function (F) Buttons

- Can use defaults, or customize for different contests
- Separate messages for S&P and Run modes
- To access, right click on any of the F buttons, and edit away!
Default Function Buttons, Phone

RUN Messages

F1 CQ,{OPERATOR}\Cq.wav
F2 Exch,{OPERATOR}\CqwwExchange.wav
F3 TNX,{OPERATOR}\Thanks.wav
F4 {MYCALL},{OPERATOR}\MyCall.wav#
F5 His Call,
F6 Spare,
F7 QRZ?,{OPERATOR}\QRZ.wav
F8 Agn?,{OPERATOR}\AllAgain.wav
F9 Zone?,{OPERATOR}\ZoneQuery.wav
F10 Spare,
F11 Spare,
F12 Wipe, {WIPE}

S&P Messages

"&" doubled, displays one "&" in the button label

F1 S&&P CQ,{OPERATOR}\Cq.wav
F2 Exch,{OPERATOR}\S&PExchange.wav
F3 Spare,
F4 {MYCALL},{OPERATOR}\MyCall.wav# F6 Spare,
F7 RptExch,{OPERATOR}\RepeatExchange.wav
F8 Agn?,{OPERATOR}\AllAgain.wav
F9 Zone,{OPERATOR}\RepeatZone.wav
F10 Spare,
F11 Spare,
F12 Wipe, {WIPE}

Lots of programs to generate the .WAV files

Things you might use:
F6 Go Away!, {OPERATOR}\GetOffMyFrequency.WAV
Default Function Buttons, CW Mode

### RUN Messages

- **F1** Cq,cq test {MYCALL} {MYCALL}
- **F2** Exch,{SENTRSTCUT} {EXCH}
- **F3** Tu,tu {MYCALL}
- **F4** {MYCALL},{MYCALL}
- **F5** His Call,!
- **F6** Exch Repeat,{SENTRSTCUT} {EXCH} {EXCH} {EXCH}
- **F7** Spare,
- **F8** Agn?,agn?
- **F9** Power?,pwr? pwr?
- **F10** Call?,cl?
- **F11** Spare,
- **F12** Wipe,{WIPE}

### S&P Messages

- **F1** Qrl?,qrl? de {MYCALL}
- **F2** Exch,{SENTRSTCUT} {EXCH}
- **F3** Tu,tu
- **F4** {MYCALL},{MYCALL}
- **F5** His Call,!
- **F6** Exch Repeat,{SENTRSTCUT} {EXCH} {EXCH} {EXCH}
- **F7** OR, or or or
- **F8** Agn?, agn?
- **F9** Power?,pwr? pwr?
- **F10** Call?,Cl?
- **F11** Spare,
- **F12** Spare,
- Wipe,{WIPE}

**Other good ones to use:** “RR”, F1 RRR, R R
“My SN”, F9 My SN, # #
“73” F7 73, 73
Default Function Buttons, RTTY

# RUN Messages
F1 Run CQ,{TX}{ENTER}CQ CQ TEST {MYCALL} {MYCALL} {RX}
F2 Run Exch,{TX}{ENTER}! {SENTRST} {EXCH} {EXCH}! {RX}
F3 Run TU,{TX}{ENTER}! TU de {MYCALL} QRZ? {RX}
F4 {MYCALL},{TX} {MYCALL} {RX}
F5 His Call,{TX}! {RX}
F6 Spare,
F7 My Exch,{TX}{ENTER}{SENTRST} {EXCH} {EXCH} {RX}
F8 Agn?,{TX}{ENTER}agn? agn? {RX}
F9 Spare,
F10 Spare,
F11 Spare,
F12 Wipe,{WIPE}

# S&P Messages
F1 S&&P CQ,{TX} CQ TEST {MYCALL} {MYCALL} {RX}
F2 S&&P Exch,{TX}{ENTER}! {SENTRST} {EXCH} {EXCH} {MYCALL} {RX}
F3 S&&P TU,{TX}{ENTER}! TU de {MYCALL} {RX}
F4 S&&P Call Him,{TX}{ENTER}! de {MYCALL} {MYCALL} {RX}
F5 His Call,{TX}! {RX}
F6 {MYCALL},{TX} {MYCALL} {RX}
F7 My Exch,{TX}{ENTER}{SENTRST} {EXCH} {RX}
F8 Agn?,{TX}{ENTER}agn? agn? {RX}
F9 Spare,
F10 Spare,
F11 Spare,
F12 Wipe,{WIPE}
Customized SSB Function Buttons, FT-2000

RUN Messages

F1  CQ,{CAT1ASCPB01;}
F2  Exch,{CAT1ASCPB02;}
F3  Callsign,{CAT1ASCPB03;}
F4  QRZ?,{CAT1ASCPB04;}
F5  Spare,
F6  Spare,
F7  Spare,
F8  Spare,
F9  Spare,
F10  Spare,
F11  Spare,
F12  Wipe,{WIPE}
Selecting “.mc” Files

Click on “Associated Files”
More Function Key Settings

Defaults here are OK, your preference!
Networking

• Used to automatically network multiple N1MM computers together
  • Multi-two or Multi-Multi operation logging
  • Second computer to provide back up log
  • Second computer so somebody else can see what is happening
  • Send private messages from station to station
  • See what the other station is doing……..

• Must designate a “Master” station
  • Master provides time synchronization between all N1MM computers
  • Logs are also synchronized
  • Master is usually the secondary station (frees up resources for primary station)
  • Telnet spots are also gathered by Master, then distributed to secondary stations

• All stations must have same version of N1MM+ on them, same revision of wl_city.dat (Country list), and same contest parameters
Networking

![Image of networking software interface]
Networking

The Options page:

Messaging (Opened with Control E):

* Time to get that rate up. I don't see very many contacts in the log from your station. No beer for you!
Statistics - Contesters LOVE statistics!

Looking at hourly rates
More Statistics!

What were the best rates?

QSO Parties (US and Canada) - 2017-05-06 1300Z to 2017-05-07 0700Z - 945 QSOs
W7XQ Max Rates:

2017-05-06 1917Z - 4.0 per minute (1 minute(s)), 240 per hour by W7VO
2017-05-06 1925Z - 2.4 per minute (10 minute(s)), 144 per hour by W7VO
2017-05-06 1946Z - 1.9 per minute (60 minute(s)), 111 per hour by W7VO
Even more Statistics!

How effective were the runs?

QSO Parties (US and Canada) - 2017-05-06 1300Z to 2017-05-07 0700Z - 945 QSOs
W7XQ Runs >10 QSOs: for computer named: W7VO

2017-05-06 1344 - 14282, 7222 kHz, 21 Qs, 28.6/hr W7VO
2017-05-06 1458 - 15392, 7222 kHz, 23 Qs, 23.4/hr W7VO
2017-05-06 2347 - 02252, 7200 kHz, 32 Qs, 12.1/hr W7VO
2017-05-07 0436 - 05132, 7265 kHz, 40 Qs, 36.7/hr W7VO
2017-05-07 0532 - 05542, 7200 kHz, 14 Qs, 38.9/hr W7VO

QSO Parties (US and Canada) - 2017-05-06 1300Z to 2017-05-07 0700Z - 945 QSOs
W7XQ Runs >10 QSOs: for computer named: W7XQ-PC

2017-05-06 1415 - 16462, 14196 kHz, 53 Qs, 20.9/hr W7VO
2017-05-06 1838 - 21392, 14294 kHz, 250 Qs, 82.9/hr W7VO
2017-05-06 2147 - 22152, 14315 kHz, 23 Qs, 47.8/hr W7VO
2017-05-06 2222 - 23582, 14283 kHz, 89 Qs, 55.8/hr W7VO
2017-05-07 0015 - 01342, 14315 kHz, 111 Qs, 84.3/hr W7VO
2017-05-07 0221 - 02522, 14303 kHz, 49 Qs, 95.6/hr W7VO
2017-05-07 0524 - 06452, 3889 kHz, 72 Qs, 53.2/hr W7VO
• That’s all for now, Folks!
• Explore other features, but now you know the basics of N1MM+!

Willamette Valley

Semper Arm

DX Club

www.wvdxc.org