References

1. N1MM+ Logger documentation, section *9. Sending Log Data to N1MM+*
http://n1mm.hamdocs.com/tiki-index.php?page=UDP+Broadcasts#Sending_Log_Data_to_N1MM_

2. Amateur Data Interchange Format (ADIF) Specification
http://www.adif.org/308/ADIF_308.htm

N1MM+ Test Data

The following is the UDP datagram test data used to test the *Receive QSO notifications using UDP from other applications (WSJT-X)* port in the *QSO Forwarding* feature in Logbook.

```
<call:4>W1AW <qso_date:8>20180827 <time_on:6>102030 <contest_id:9>CQ-WW-SSB <mode:3>FT8 <freq:9>14.075000
<freq_rx:9>14.075000 <band:3>20m <comment:3>FT8 <cqz:1>5 <itu:1>8 <gridsquare:6>FN31pr <name:22>ARRL HQ
OPERATORS CLUB <rst_rcvd:2>-3 <rst_sent:2>-7 <tx_pwr:4>50.0 <rx_pwr:4>60.0 <srx:3>001 <stx:3>002
<qth:9>Newington <operator:4>W1AW <arrl_section:2>CT <iota:6>NA-001 <pfx:2>W1 <state:2>CT
<precedence:10>precedence <check:5>check <eor>
```

The choice of ADIF field tags use in the test data was based upon those that are documented as supported in section *9. Sending Log Data to N1MM+*, which also have a corresponding column in Logbook. Therefore, the following tags were not used:

"RADIO_NR", "POINTS", "ARI_PROV", "DIG", "DISTRIKT", "DOK", "KDA", "OBLAST", "RDA", "SAC", "SECT", "IARU_ZONE", "SECTION", "NAQSO_SECT", "VE_PROV", "UKEI", "WWPMC"

Logbook Row Inserted

Test Data Field and Value	Logbook Field (Table Column)	Value Inserted	Comments
<call:4>W1AW	Call (COL_CALL)	W1AW	Pass
<qso_date:8>20180827	Date (COL_TIME_ON)	31/08/2018	FAIL – See note 1
<time_on:6>102030	Start (COL_TIME_ON)	10:36:53	FAIL – See note 1
<contest_id:9>CQ-WW-SSB	Contest (COL_CONTEST_ID)	*<blank>*	FAIL
<mode:3>FT8	Mode (COL_MODE)	FT8	Pass
<freq:9>14.075000	Freq (COL_FREQ)	0.000.000	FAIL – See note 2
<freq_rx:9>14.075000	Freq RX (COL_FREQ_RX)	*<blank>*	FAIL
<band:3>20m	Band (COL_BAND)	*<blank>*	FAIL – See note 2
<comment:3>FT8	Comment (COL_COMMENT)	FT8	Pass
<cqz:1>5	CQ zone (COL_CQZ)	*<blank>*	FAIL
<itu:1>8	ITU zone (COL_ITUZ)	*<blank>*	FAIL
<gridsquare:6>FN31pr	Locator (COL_GRIDSQUARE)	FN31pr	Pass
<name:22>ARRL HQ OPERATORS CLUB	Name (COL_NAME)	ARRL HQ OPERATORS CLUB	Pass
<rst_rcvd:2>-3	RST Rcvd (COL_RST_RCVD)	-31	FAIL
<rst_sent:2>-7	RST Sent (COL_RST_SENT)	-31	FAIL
<tx_pwr:4>50.0	TX Power (COL_TX_PWR)	*<blank>*	FAIL
<rx_pwr:4>60.0	RX power (COL_RX_PWR)	*<blank>*	FAIL
<srx:3>001	RST Rcvd (COL_SRX)	*<blank>*	FAIL
<stx:3>002	RST Sent (COL_STX)	*<blank>*	FAIL
<qth:9>Newington	QTH (COL_QTH)	Newington	Pass
<operator:4>W1AW	Operator (COL_OPERATOR)	W1AW	Pass
<arrl_section:2>CT	ARRL sect (COL_ARRL_SECT)	*<blank>*	FAIL
<iota:6>NA-001	IOTA (COL_IOTA)	*<blank>*	FAIL
<pfx:2>W1	WPX (COL_PFX)	W1	Pass
<state:2>CT	State (COL_STATE)	*<blank>*	FAIL
<precedence:10>precedence	Precedence (COL_PRECEDENCE)	*<blank>*	FAIL
<check:5>check	Check (COL_CHECK)	*<blank>*	FAIL

Notes

1. The contact was logged with the current system date and time as the Date and Start values. I believe it appropriate that the QSO Date and Time On values received in UDP datagram should be used if provided, as the user may be logging the QSO sometime after the actual contact. If automated uploads to online logbooks are enabled in Logbook, the user will have to amend the QSO Date and Time On in multiple places if the intended values are not applied.

   If the UDP datagram doesn't provide the QSO Date and Time On values, then it would be appropriate to use the current system date and time.

2. Regardless of whether Band tracking is enabled in the ALE window, the Freq and Band values are not being populated. I believe the Freq and Band values received in the UDP datagram should be used if provided, as the user may be logging the QSO sometime after the actual contact and the user may have changed the transceiver frequency and/or mode.