

ADIF Proposals Issue 70, 08 March 2026

ADIF Proposals Issue 70, 08 March 2026.....	1
Changes from Previous Version	2
Status Key.....	2
Awaiting sponsors	2
Summary of Proposals	2
Item 179: Add Modes and Submodes	4
Item 178: Minor changes and corrections #12	4
Item 177: Revise the description of the EQSL_AG Enumeration and Field	5
Item 176: Address format issues in descriptive text	5
Item 175: Minor changes and corrections #11	6
Item 174: Revisions to ARRL Section List	7
Item 173: Revisions to Contest IDs Enumeration.....	7
Item 170: Address issues with Primary Admin Subdivision tables.....	7
Item 167: Add dates to the DXCC Entity Code enumeration	7
Item 165: Enhance representation of calls in SWL reports.....	8
Item 164: Add support for Lighthouses on the Air	8
Item 156: Revise POTA data types and field definitions.....	8
Item 143: Add fields for Castles on the Air	10
Item 129: Mode/Submode support for GMSK, FSK and FSK-W	10
Item 114: Register ADIF media (aka MIME) types.....	10
Item 112: Minor changes and corrections #5	10
Item 107: Add Support for Extended Character Sets	12
Item 088: Minor Changes and Corrections #3	12
Item 087: Correct HFSK submode	13
Item 083: Remove Digit, Character, and IntlCharacter from Data Types table	13
Item 081: Replace “Y” in Deleted columns with “Deleted”	14
Item 080: Clarifications on the fields BAND, BAND_RX, FREQ, & FREQ_RX	14
Item 070.2: Provide examples of using ADIF Specification exported files.....	15
Item 065: Add a list of US Counties	19
Item 062.2: Update Primary Administrative Subdivision for Country Code 224 (Finland).....	20
Item 058: Remove FIPS 6-4 US County Link	20

Changes from Previous Version

Changes from the previous version of this document are shown by **highlighting**, with deleted text shown by **strikethrough**.

Status Key

<i>Awaiting comments</i>	There is a minimum 1-week comment period following publication in this document.
<i>Ready for inclusion</i>	The comment period has ended; this is an uncontroversial item that will be included in a draft specification without a poll unless there are adverse comments.
<i>Awaiting sponsors</i>	For a proposal needing a poll, at least two members of the ADIF Voting group must support it beforehand.
<i>Ready for poll</i>	The comment period has ended; a poll can now be initiated.
<i>Poll: Approved</i>	There was a majority of votes for inclusion of the item, which will be included a draft specification
<i>Poll: Rejected</i>	There was not a majority of votes for inclusion of the item, which will be taken no further.
<i>Work in progress</i>	Further work is needed before the item can be considered for inclusion in a draft specification.
<i>Closed</i>	No further action.
<i>Included in a.b.c</i>	Included in proposed specification version <i>a.b.c</i>

Awaiting sponsors

None

Summary of Proposals

Title	Target Version	Will have Poll?	Poll Result
Item 179: Add Modes and Submodes	3.1.7		
Item 178: Minor changes and corrections #12	3.1.7		
Item 177: Revise the description of the EQSL_AG Enumeration and Field	3.1.7		
Item 176: Address format issues in descriptive text (<i>partial – work in progress</i>)	3.1.7		
Item 175: Minor changes and corrections #11			
Item 174: Revisions ARRL Section List		Yes	
Item 173: Revisions to Contest IDs Enumeration			
Item 170: Address issues with Primary Admin Subdivision tables			
Item 167: Add dates to the DXCC Entity Code enumeration			
Item 165: Enhance representation of calls in SWL reports		Yes	
Item 164: Add support for Lighthouses on the Air			
Item 156: Revise POTA data types and field definitions			
Item 146: Provide read-only announcements of new proposed & released ADIF Specifications			
Item 143: Add fields for Castles on the Air		Yes	
Item 135: Review the ADIF specification w.r.t. importing unexpected data			

Item 129: Mode/Submode support for GMSK, FSK and FSK-W		Yes	
Item 114: Register ADIF media (aka MIME) types			
Item 112: Minor changes and corrections #5			
Item 107: Add Support for Extended Character Sets		Yes	
Item 088: Minor Changes and Corrections #3			
Item 087: Correct HFSK submode			
Item 083: Remove Digit, Character, and IntlCharacter from Data Types table			
Item 081: Replace "Y" in Deleted columns with "Deleted"			
Item 080: Clarifications on the fields BAND, BAND_RX, FREQ, & FREQ_RX		Yes	
Item 070.2: Provide examples of using ADIF Specification exported files			
Item 065: Add a list of US Counties			
Item 062.2: Update Primary Administrative Subdivision for Country Code 224 (Finland)			
Item 058: Remove FIPS 6-4 US County Link		Yes	

Item 179: Add Modes and Submodes

Status: **Ready for inclusion** ~~Work in progress~~

Add:

Mode: OFDM

Description: "Orthogonal Frequency-Division Multiplexing including COFDM"

Link: https://en.wikipedia.org/wiki/Orthogonal_frequency-division_multiplexing

Mode: OFDM / Submode: RIBBIT_PIX

Description: "Images transmitted using Ribbit (~~implemented in Assempix and ShredPX~~)."

Link: <https://www.aicodix.de/cofdmtv/>

Mode: OFDM / Submode: RIBBIT_SMS

Description: "Short text messages transmitted using Ribbit (~~implemented in Rattlegram~~)."

Link: <https://www.aicodix.de/cofdmtv/>

Existing Mode: DYNAMIC

Submode: FREEDATA

Description: "Data communications leveraging Codec2 HF modems" ~~"An open source, customizable platform for transmitting data."~~

Link: <https://wiki.freedata.app/en>

Existing Mode: MFSK

Submode: FT2 ~~MM2~~

Description: None ~~"Fast Transmission 2"~~

Link: None ~~<https://www.ft2.it/#about>~~

Ref. <https://groups.io/g/adifdev/message/11541>

<https://groups.io/g/adifdev/message/11669>

Sponsors: not applicable

Item 178: Minor changes and corrections #12

Status: **Ready for inclusion** ~~Work in progress~~

- In the Resources document's section IV.B. Data File Contents, ~~change the first sentence to:~~
The CSV, TSV, and XML files are UTF-8 encoded and start with the 3-byte BOM (0xEF, 0xBB, 0xBF). The JSON file is also UTF-8 encoded but, per the JSON standard, does not start with a BOM.
~~remove "JSON," from the first sentence (because the JSON files do not have a BOM).~~
- Because the ADIF may not be held in a file. change
"Identifies the name of the logger, converter, or utility that created or processed this ADIF file."
to
"Identifies the name of the logger, converter, or utility that created or processed this ADIF content."
- Add to the description of the DARC_DOK and MY_DARC_DOK fields:
Note that DARC provides two different lists - one for DOKs and one for Special DOKs.
~~that there are two DARC lists, one for conventional DOKs and one for "Special DOKs".~~

Sponsors: not applicable

Item 177: Revise the description of the EQSL_AG Enumeration and Field

Status: **Ready for inclusion** ~~Work in progress~~

Update the descriptions in III.B.9. EQSL_AG Enumeration:

Y - the QSO's callsign holds eQSL.cc's "Authenticity Guaranteed" status

N - the QSO's callsign does not hold eQSL.cc's "Authenticity Guaranteed" status

U - unspecified (Default)

In section III.C.1.b QSO Fields, add to the EQSL_AG field's description:

Default value: U

Ref. <https://groups.io/g/adifdev/message/11438>

<https://groups.io/g/adifdev/message/11444>

Sponsors: not applicable

Item 176: Address format issues in descriptive text

Status: *Work in progress*

Note: As this requires quite a lot of minor changes, it will be implemented over a number of versions of the ADIF Specification.

While validating that ADIF Multitool would handle the 3.1.6 updates, I noticed that the HTML formatting stripping for the XML, JSON, etc. exports can result in suboptimal text. For example, 3.1.6 changed the Description of PROGRAMID from

identifies the name of the logger, converter, or utility that created or processed this ADIF file
to

identifies the name of the logger, converter, or utility that created or processed this ADIF file To help avoid name clashes, the ADIF PROGRAMID Register provides a voluntary list of PROGRAMID values.

Following the observation that field descriptions were sentence fragments without a leading subject or trailing punctuation, my code-generation program outputs a code comment something like

```
sprintf("// %s is a %s, %s.", fieldName, fieldType, fieldDescription)
```

So the ADIF 3.1.6 update changes the comment for the Programid field constant from

```
// ProgramidField is a String, identifies the name of the logger, converter, or utility that created or processed this ADIF file.
```

to

```
// ProgramidField is a String, identifies the name of the logger, converter, or utility that created or processed this ADIF file To help avoid name clashes, the ADIF PROGRAMID Register provides a voluntary list of PROGRAMID values..
```

Note the extra period at the end, and the abrupt change of sentence marked only by a capital T, no period.

There's some variance in the HTML for field descriptions. ANT_AZ and ANT_EL have periods after the initial sentence and a
 tag after, while fields like ALTITUDE use a period and two
 tags, CNTY_ALT uses two
 without a period at the end of the first sentence, and the various QSLDATE/QSLRDATE fields use two
 and no period after either sentence.

The field descriptions with list items also look awkward in generated documentation. For example, the USERDEFn field says in part "... where n is a positive integer The name of a user-defined field may not be an ADIF Field name contain a comma a colon an open-angle-bracket or close-angle-bracket character..."

Would it be possible in 3.1.7 to make a typographical fix in the exports to add periods to all sentence breaks in field Descriptions, and add some punctuation, possibly asterisk, for tags?

Remediation:

- Change sentences to start with a capital letter and end with a full stop.
- In unordered lists, prefix each list item with a Unicode Black circle (U+25CF ●) and a space.
- Change sentences to start with a capital letter and end with a full stop.

Ref. <https://groups.io/g/adifdev/message/10301>

Sponsors: not applicable

Item 175: Minor changes and corrections #11

Status: Work in progress

In the table "Enumeration for Country Code 291 (United States)", change the separator for multiple ITU Zones from "/" to ",".

In the table "Enumeration for Country Code 15 (Asiatic Russia)", change the CQ Zones for OB from "S=16 T=17" to "16,17". This is for consistency with the other tables (the "S" and "T" are believed to relate to Russian prefixes and, even if that is still up-to-date, no other Primary Administrative Subdivision tables go into that level of detail).

Ref. <https://groups.io/g/adifdev/message/10281>

Add an advisory note about taking precautions when importing a URL in the WEB field (details t.b.s.)

In section IV.A.1. ADI Data-Specifiers, change

"Data type indicators are case insensitive; they are optional, and typically omitted when obvious, e.g. <CALL:4>WF1B"

to:

"Data type indicators are case-insensitive and optional.

o If one is included in a Header Field specifier, it must conform to the field's data type in the table III.C.1.a Header Fields.

o If one is included in an ADIF-defined QSO Field specifier, it must conform to the field's data type in the table III.C.1.b QSO Fields."

Ref. <https://groups.io/g/adifdev/message/11523>

Sponsors: not applicable

Item 174: Revisions to ARRL Section List

Status: *Work in progress*

RAC has added a new section:

Abbreviation: YUK

Section Name: Yukon

DXCC Entity Code: 1

From Date: 2025-07-01

Deleted Date: -

However, the ARRL has not made / decided on corresponding changes. See the thread in the reference below for more information.

Sponsors:

Ref. <https://groups.io/g/adifvoting/message/240>

Item 173: Revisions to Contest IDs Enumeration

Status: *Work in progress*

2025-08-29: Needs clarification from the contest sponsor.

Add new Contest ID or IDs for YB DX Contest.

YB DX CONTEST	YB DX Contest	https://ybdxcontest.com
YB-DX-CONTEST	YB DX RTTY Contest	https://rtty.ybdxcontest.com/

Sponsors: not applicable

Ref. <https://groups.io/g/adifdev/message/10264>

Item 170: Address issues with Primary Admin Subdivision tables

Status: *Work in progress*

t.b.s.

Sponsors: not applicable

Ref. <https://groups.io/g/adifdev/message/9875> and thread

Item 167: Add dates to the DXCC Entity Code enumeration

Status: *Work in progress*

Add Start Date and End Date columns to the DXCC Entity Code enumeration.

Sponsors: not applicable

Ref. <https://groups.io/g/adifdev/message/9845>

Item 165: Enhance representation of calls in SWL reports

Status: *Work in progress*

Add a QSO field:

Field Name: CALLS_IN_QSO

Data Type: String

Enumeration: -

Description: A comma-delimited list comprising one or more callsigns in contact with the station identified in the CALL field. Each callsign may or may not have been heard by the logging station.

This is intended for use when the logging station is acting as an SWL.

Note: if the logging station is in 2-way contact with more than one station, each such station should instead be logged in a separate QSO record.

Add to the STATION_CALLSIGN description:

o if the logging station is acting as an SWL, STATION_CALLSIGN can contain an SWL identifier (such as those issued by some national radio societies)

Sponsors:

Ref. <https://groups.io/g/adifdev/message/9786>

Item 164: Add support for Lighthouses on the Air

Status: *Work in progress*

t.b.s.

Sponsors:

Ref. <https://groups.io/g/adifdev/message/9781>

Item 156: Revise POTA data types and field definitions

Status: *Work in progress*

POTA references have changed and the ADIF representation needs revising.

For examples specifically, <https://groups.io/g/adifdev/message/9738> :

"In addition to adding 5-digit park numbers, POTA has also changed the prefix to be 2-letter ISO codes, so this example should probably be changed to US-10000, K-5033 changed to US-5033, VE-5082@CA-AB changed to CA-5082@CA-AB, 8P-0012 changed to BB-0012, VK-0556 changed to AU-0556, and K-4562@US-CA changed to US-4562@US-CA."

Existing definition:

a sequence of case-insensitive Characters representing a Parks on the Air park reference in the form xxxx-nnnnn[@yyyyy] comprising 6 to 17 characters where:

- xxxx is the POTA national program and is 1 to 4 characters in length, typically the default callsign prefix of the national program (rather than the DX entity)
- nnnnn represents the unique number within the national program and is either 4 or 5 characters in length (use the exact format listed on the POTA website)
- yyyyyy ****Optional**** is the 4 to 6 character ISO 3166-2 code to differentiate which state/province/prefecture/primary administration location the contact represents, in the case that the park reference spans more than one location (such as a trail).

Examples of the POTARef Data Type:

Reference	Location
K-5033	Golden Hill State Forest
K-10000	5-digit park numbers are reserved for future use
VE-5082@CA-AB	The Great Trail of Canada (the Canadian Trailway) National Scenic Trail, within Alberta, Canada
8P-0012	Chancery Lane Swamp National Park
VK-0556	Pieman River State Reserve
K-4562@US-CA	Pacific Crest Trail, within California, USA

Additional Notes on POTARef:

- A browsable and searchable list of all park references is available.
- A complete CSV file is available (generated nightly).
- For more information, visit the Parks on the Air documentation website.

Revised definition:

a sequence of case-insensitive Characters representing a Parks on the Air park reference in the form x-n[@y] where:

- x is a 2-character country code as specified in ISO-3166-2
- n represents the unique number within the national program and is either 4 or 5 characters in length (use the exact format listed on the POTA website)
- y ****Optional**** is to differentiate which state/province/prefecture/primary administration location the contact represents, in the case that the park reference spans more than one location (such as a trail)

Examples of the POTARef Data Type:

Reference	Location
US-5033	United States of America / Golden Hill State Forest
US-11850	United States of America / Mount Prindle Campground BLM Recreation Management Area
CA-5082@CA-AB	Canada / The Trans Canada Trail National Scenic Trail / Alberta
BB-0012	Barbados / Chancery Lane Swamp National Park
AU-0556	Australia / Pieman River State Reserve
US-4562@US-CA	United States of America / Pacific Crest Trail National Scenic Trail / California

Additional Notes on POTARef:

- A browsable and searchable list of all park references is available.
- A complete CSV file is available (generated nightly).
- For more information, visit the Parks on the Air documentation website.

Ref.

Item 143: Add fields for Castles on the Air

Status: Work in progress

Update 2024-07-16: This has proven problematic due to there not being a single, universally accepted list of locations and references, i.e. different countries have variations. It seems there are two approaches, neither of which is desirable: (1) have separate field for each amateur radio organization concerned or (2) have a single field that can contain distinct references for each country concerned. Although (2) seems tidier, it's not obvious that different countries' references can be confirmed to be equivalent.

t.b.s.

Ref. <https://groups.io/g/adifdev/message/7767>

Item 129: Mode/Submode support for GMSK, FSK and FSK-W

Status: Work in progress

Add FSK as a Submode of MFSK.

Add GMSK as a Submode of PSK.

FSK-W can be logged as FSK, so I don't see need at this stage for adding an FSK-W Submode.

Ref. <https://n1mmwp.hamdocs.com/manual-operating/digital-modes/>
<https://groups.io/g/adifdev/message/8225>

Item 114: Register ADIF media (aka MIME) types

Status: Work in progress

Update 2024-07-16: This has not been pursued as yet in order to avoid having mime types added then subsequently having to change them due to potential changes related to supporting international characters.

Register ADIF media (aka MIME) types.

Document them in the ADIF specification.

Ref: <https://groups.io/g/adifdev/message/8121>

Item 112: Minor changes and corrections #5

Status: Work in progress

Note: the following two items were moved from Item 106

The Asiatic Russia entry:

PM Perm` (Permskaya oblast) - for contacts made on or after 2005-12-01 140 17 30
needs changing to:

PM Perm` (Permskaya oblast) - for contacts made on or after 2005-12-01 and made before **2011-12-02** 140 17 30

A new European Russia entry needs adding:

PM Perm` (Permskaya oblast) - for contacts made on or after **2011-12-02** 140 17 30

The Asiatic Russia entry:
KO Republic of Komi 90 17 20

needs changing to:

KO Republic of Komi - **for contacts made before 2011-12-02** 90 17 20

A new European Russia entry needs adding:

KO Republic of Komi – for contacts made on or after 2011-12-02 90 17 20

“It looks like the PM, KP and KO entries should just be moved en-bloc from Asiatic Russia to European Russia without any date demarcation.”

Note: awaiting clarification from ARRL.

Ref: <https://groups.io/g/adifdev/message/7798>

The following Items have been moved from Item 166:

CQ Amateur Radio references and external links need changing to reflect the current situation with the awards and contests.

In the Primary Administrative Subdivision tables, some values with comments in the Primary Administrative Subdivision cells need revising to ease processing them when exporting the tables. Specifically, change:

"Distrito Federal (import-only replaced by CMX)" to

"Distrito Federal (import-only - replaced by CMX)"

"Sakha (Yakut) Republic" to

"Republic of Sakha"

"Zabaykalsky Krai - referred to as Chita (Chitinskaya oblast) before 2008-03-01" to

"Zabaykalsky Krai - referred to as Chita [Chitinskaya oblast] before 2008-03-01"

"Carbonia-Iglesias (import-only replaced by SU)" to

"Carbonia-Iglesias (import-only - replaced by SU)"

Add clarifications on PROGRAMID values:

- In section III.C.1.a Header Fields, add to the description of PROGRAMID:

“Recommendations: Use only letters and digits in the value. This is to avoid issues if the value is used in Application-defined field names. Case-insensitive comparisons should be used when comparing PROGRAMID values.”

- In section IV.A.4. Application-defined Fields **and** in section IV.B.2. Application-defined Fields, add to the definitions of PROGRAMID:

“Recommendations: An application exporting its own Application-defined field fields should include a PROGRAMID header field that has the same value as the PROGRAMID used in its Application-defined field names.”

- In section IV.A.4. Application-defined Fields and in section IV.B.2. Application-defined Fields, after the paragraph “An application whose name is MONOLOG” add:

“Recommendations:

o Use only letters and numbers in the PROGRAMID.

o Use only letters, numbers and “_” characters in the FIELDNAME.

o Treat Application-defined field name containing more than two “_” characters as having the PROGRAMID value between the first and second “_” characters and the FIELDNAME value after the second “_” character. For example,

APP_MONOLOG_MY_SUNSET_TIME

has a PROGRAMID of MONOLOG and FIELDNAME of MY_SUNSET_TIME.

Ref. <https://groups.io/g/adifdev/message/9919>

Item 107: Add Support for Extended Character Sets

Status: *Work in progress*

Ref.

Item 088: Minor Changes and Corrections #3

Status: *Work in progress*

In “III.B.11 Primary Administrative Subdivision Enumeration” add a “Deleted Date” column. For deleted items, this will contain the date on which the item was deleted, and for other items will be blank.

In “III.B.11 Primary Administrative Subdivision Enumeration” some of the Primary Administrative Subdivision column values contain comments in addition to a name, e.g.

Ust'-Ordynsky Autonomous Okrug - for contacts made before 2008-01-01

To make the actual names machine-readable and consistent with other tables in the specification, surround the comments in parentheses, e.g. change the above to:

Ust'-Ordynsky Autonomous Okrug (for contacts made before 2008-01-01)

In “III.B.11 Primary Administrative Subdivision Enumeration”, a few entries are marked as “import-only” (deprecated). These should instead be marked “deleted” because they are still correct for QSOs prior to the date their use ceased.

“We have the “Delete date” for the ON province change and “From date” for the new ON sections but there are no dates for WTX and WCF which were added in the 1980's I think (fuzzy in the mind now). Seems like there was another one that was added sometime about then but it escapes me at the moment. 73, Larry W6NWS”

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/topics/7078>

In III.C.1.b QSO Fields, for consistency with the other enumerations that have values depending on another field, change:

Submode (function of MODE field's value)

to:

(Submode, function of MODE field's value)

Item 087: Correct HFSK submode

Status: Work in progress

In ADIF 3.0.4, HFSK was thought to be an FSK Hell mode and consequently moved from the Mode table into a submode of HELL. It's been pointed out that the FSK submode of Hell is FSKHELL. From messages some years ago, HFSK is believed to be "high speed FSK" and it is noted that then, and now, no known software specifies HFSK as a mode.

No recent progress on this due to being unable to assess the impact, i.e. how much this may have been used.

Ref. <https://groups.io/g/adifdev/message/6988>

Item 083: Remove Digit, Character, and IntlCharacter from Data Types table

Status: Work in progress

Background: although Digit, Character, and IntlCharacter appear in section "III.A. Data Types", they are not used in any ADIF-defined fields nor can they be used in user-defined or application fields.

In the table in section "III.A. Data Types":

- Remove the rows for Digit, Character, and IntlCharacter.
- Change the definition of String to:
"a sequence of ASCII characters whose code lies in the range of 32 through 126, inclusive"
- Change the definition of MultilineString to:
"a sequence of ASCII characters whose code lies in the range of 32 through 126, inclusive, and line-breaks, where a line break is an ASCII CR (code 13) followed immediately by an ASCII LF (code 10)"
- Change the definition of IntlString to:
"a sequence of Unicode characters (encoded with UTF-8) excluding line break CR (code 13) and LF (code 10) characters"
- Change the definition of MultilineString to:
"a sequence of Unicode characters (encoded with UTF-8) and line-breaks, where a line break is an ASCII CR (code 13) followed immediately by an ASCII LF (code 10)"
- In the definition of Location, change "Character" to "character" and remove the hyperlink.
- In the definition of SOTARef:
(a) change "a sequence of Characters" to "a String"
(b) change "a / Character" to "a / character"
- Replace occurrences of "Digit" and "Digits" by "ASCII digit" and "ASCII digits" and remove the hyperlinks.

In section "IV.A.1. ADI Data-Specifiers", remove "IntlCharacter," from "Fields of type IntlCharacter, IntlString, and IntlMultilineString cannot be used in ADI files."

In section "IV.A.4. Application-defined Fields", remove:

" , which can be for any Data type except Digit and Character"

In section "IV.A.5. User-defined Fields", remove:

“, which can be for any Data type except Digit and Character”

In section “IV.B.2. Application-defined Fields”, remove:

“, which can be for any Data type except Digit, Character, or IntlCharacter”

In section “IV.B.3. User-defined Fields”, remove:

“, which can be for any Data type except Digit, Character, or IntlCharacter”

Ref. tbs

Item 081: Replace “Y” in Deleted columns with “Deleted”

Status: Ready for inclusion

A number of tables in the ADIF specification have a "Deleted" column that are blank or have the value "Y" in for a deleted item.

Change the "Y" values to "Deleted" so that they are more prominent, especially for larger tables that flow over more than one page / screen.

Ref. <https://groups.io/g/adifdev/message/6810>

Item 080: Clarifications on the fields BAND, BAND_RX, FREQ, & FREQ_RX

Status: Work in progress

(1) Add the examples <FREQ:5>7.035 to the FREQ and FREQ_RX field descriptions and <BAND:3>40m to the BAND and BAND_RX field descriptions.

(2) Add the following at the start of the Band enumeration section:

"Although the FREQ and BAND fields are discussed in this section, the same considerations apply to the FREQ_RX and BAND_RX fields.

FREQ contains a frequency in MHz and must only contain digits and at most one decimal point character '.' (ASCII code 46). In particular, NOT ALLOWED is the use of a comma character instead of a '.' and NOT ALLOWED is the use of thousands separators.

BAND contains a band from the Band enumeration below. It must not contain spaces.

The following are guidelines for use of band and frequency in records representing QSOs.

(a) If both FREQ and BAND fields are exported, their values must be consistent according to the values in the Band enumeration table in this section.

(b) If in an imported record:

- FREQ and BAND are inconsistent, use FREQ and ignore BAND.
- FREQ is invalid and BAND is present, use BAND and ignore FREQ.
- FREQ is invalid and BAND is absent or invalid, reject or ignore the record.
- BAND is invalid and FREQ is present, use FREQ and ignore BAND.
- BAND is invalid and FREQ is absent or invalid, reject or ignore the record.

(c) Applications should try to help users avoid mistakenly recording VHF and higher frequencies when they intended HF; this can happen when frequencies in different bands are multiples of 10 apart and can be entered erroneously due to the difference being in the position of a decimal point. For example, 10.105000 MHz (30m) and 10105.000 MHz (3cm)."

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/messages/6995>

Item 070.2: Provide examples of using ADIF Specification exported files

Status: Work in progress

The intention is to include something along the following lines in the ADIF post-version 3.1.5 Resources document:

IV.C.3. Transforming Exported XML using XSLT

While the CSV and TSV files can be read by software to create programming language source files and SQL statements, using XSLT with the exported XML files provides a very convenient alternative.

The following is an example of using XSLT on the fields XML to create C# string constants:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
  <xsl:template match="/">
    <xsl:for-each select="adif/fields/record">
      const string FIELD_<xsl:value-of select="value[@name]"/> = "<xsl:value-of
      select="value[@name]"/>";</xsl:for-each>
    </xsl:template>
  </xsl:stylesheet>
```

This is the first part of the output it creates:

```
const string FIELD_ADIF_VER = "ADIF_VER";
const string FIELD_CREATED_TIMESTAMP = "CREATED_TIMESTAMP";
const string FIELD_PROGRAMID = "PROGRAMID";
const string FIELD_PROGRAMVERSION = "PROGRAMVERSION";
const string FIELD_USERDEFn = "USERDEFn";
const string FIELD_ADDRESS = "ADDRESS";
const string FIELD_ADDRESS_INTL = "ADDRESS_INTL";
const string FIELD_AGE = "AGE";
const string FIELD_A_INDEX = "A_INDEX";
```

To select (for example) only the fields that are not header fields, the `<xsl:for-each>` element's `select` attribute can be altered to include only the `<record>` elements that do not have a `<value>` element with a `name` attribute set to "Header Field":

```
select="adif/fields/record[not (value[@name='Header Field'])]"
```

The following example shows how an individual C# class could be created for each field:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
  <xsl:template match="/">
    <xsl:for-each select="adif/fields/record">
      public class FIELD_<xsl:value-of select="value[@name]"/>
      {
        public const string name = "<xsl:value-of select="value[@name]"/>";
        public const bool header = <xsl:choose>
```

```

    <xsl:when test="value[@name='Header Field']">true</xsl:when>
    <xsl:otherwise>>false</xsl:otherwise>
</xsl:choose>;
}
</xsl:for-each>
</xsl:template>
</xsl:stylesheet>

```

Here is the first part of the output:

```

public class FIELD_ADIF_VER
{
    public const string name = "ADIF_VER";
    public const bool header = true;
}

public class FIELD_CREATED_TIMESTAMP
{
    public const string name = "CREATED_TIMESTAMP";
    public const bool header = true;
}

public class FIELD_PROGRAMID
{
    public const string name = "PROGRAMID";
    public const bool header = true;
}

public class FIELD_PROGRAMVERSION
{
    public const string name = "PROGRAMVERSION";
    public const bool header = true;
}

public class FIELD_USERDEFn
{
    public const string name = "USERDEFn";
    public const bool header = true;
}

public class FIELD_ADDRESS
{
    public const string name = "ADDRESS";
    public const bool header = false;
}

```

Here is XSLT that will create equivalent SQL INSERT statements for the fields:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
  <xsl:template match="/">
    <xsl:for-each select="adif/fields/record">
      INSERT fields (fieldname, header) VALUES ('<xsl:value-of select="value[@name]"/>',
<xsl:choose>
      <xsl:when test="value[@name='Header Field']">1</xsl:when>
      <xsl:otherwise>0</xsl:otherwise>
</xsl:choose>)</xsl:for-each>
    </xsl:template>
  </xsl:stylesheet>

```

Here is the first part of the output:

```

INSERT fields (fieldname, header) VALUES ('ADIF_VER', 1)
INSERT fields (fieldname, header) VALUES ('CREATED_TIMESTAMP', 1)

```

```

INSERT fields (fieldname, header) VALUES ('PROGRAMID', 1)
INSERT fields (fieldname, header) VALUES ('PROGRAMVERSION', 1)
INSERT fields (fieldname, header) VALUES ('USERDEFn', 1)
INSERT fields (fieldname, header) VALUES ('ADDRESS', 0)
INSERT fields (fieldname, header) VALUES ('ADDRESS_INTL', 0)
INSERT fields (fieldname, header) VALUES ('AGE', 0)
INSERT fields (fieldname, header) VALUES ('A_INDEX', 0)

```

Finally, here is a slightly more realistic (and lengthier!) example that converts the Modes enumeration into instances of a C# class:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
  <xsl:template match="/">using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace Adif
{
  public class AdifMode
  {
    private string name;
    private string[] submodes;
    private bool importOnly;
    private string description;

    public string Name
    {
      get { return name; }
    }

    public string[] Submodes
    {
      get { return submodes; }
    }

    public bool ImportOnly
    {
      get { return importOnly; }
    }

    public string Description
    {
      get { return description; }
    }

    public AdifMode(
      string name,
      string submodes,
      bool importOnly,
      string description)
    {
      this.name = name;
      this.submodes = submodes.Split(new char[] { ',' },
StringSplitOptions.RemoveEmptyEntries);
      this.importOnly = importOnly;
      this.description = description;

      AdifModes.Add(name, this);
    }

    public static Dictionary<string, AdifMode> AdifModes = new
Dictionary<string, AdifMode>();

    public static void Initialize()
    {

```

```

        MessageBox.Show("ARDOP is " + AdifModes["ARDOP"].Description);
        MessageBox.Show("CHIP has " +
AdifModes["CHIP"].Submodes.Length.ToString() + " submodes");
        MessageBox.Show("CLO is " + (AdifModes["CLO"].ImportOnly? "" : "not") + "
import-only");
    }
}
</xsl:template>
</xsl:stylesheet>

```

Here's a cut-down version of the output:

```

using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace Adif
{
    public class AdifMode
    {
        private string name;
        private string[] submodes;
        private bool importOnly;
        private string description;

        public string Name
        {
            get { return name; }
        }

        public string[] Submodes
        {
            get { return submodes; }
        }

        public bool ImportOnly
        {
            get { return importOnly; }
        }

        public string Description
        {
            get { return description; }
        }

        public AdifMode(
            string name,
            string submodes,
            bool importOnly,
            string description)
        {
            this.name = name;
            this.submodes = submodes.Split(new char[] { ',' },
StringSplitOptions.RemoveEmptyEntries);
            this.importOnly = importOnly;
            this.description = description;

            AdifModes.Add(name, this);
        }

        public static Dictionary<string, AdifMode> AdifModes = new Dictionary<string,
AdifMode>();

        public static void Initialize()
        {
            new AdifMode("AM", "", false, "");

```

```

        new AdifMode("ARDOP", "", false, "Amateur Radio Digital Open Protocol");
        new AdifMode("ATV", "", false, "");
        new AdifMode("CHIP", "CHIP64,CHIP128", false, "");
        new AdifMode("CLO", "", false, "");
        new AdifMode("CONTESTI", "", false, "");
        new AdifMode("CW", "PCW", false, "");
        new AdifMode("DIGITALVOICE", "", false, "");
        new AdifMode("DOMINO", "DOMINOEX,DOMINOF", false, "");
        // etc. etc.

        MessageBox.Show("ARDOP is " + AdifModes["ARDOP"].Description);
        MessageBox.Show("CHIP has " +
AdifModes["CHIP"].Submodes.Length.ToString() + " submodes");
        MessageBox.Show("CLO is " + (AdifModes["CLO"].Import ReadOnly ? "" :
"not") + " import-only");
    }
}
}

```

When the Initialize method is run, three message boxes will be displayed showing the following:

```

ARDOP is Amateur Radio Digital Open Protocol
CHIP has 2 submodes
CLO is not import-only

```

The following is more appropriate for the export program's documentation:

IV.G. Implementation

Generation of the exported files exploits some meta data included in ADIF Specifications from version 3.0.6 onwards:

- A <meta> tag with the name "adifversion" containing the ADIF version (e.g. "3.0.6").
- A <meta> tag with the name "adifstatus" containing "Draft", "Proposed", or "Released".
- For the released version 3.1.5 onwards, a <meta> tag with the name "adifdate" containing the ADIF specification's release date in the form of an XSD date.
- The data types table has an id attribute of "Data Types".
- The Primary Administrative Subdivision enumeration tables have an id attribute of "Enumeration_Primary_Administrative_Subdivision_{DXCC}" where {DXCC} is the DXCC entity code, e.g. for Canada the id is "Enumeration_Primary_Administrative_Subdivision_1"
- All other enumeration tables have an id attribute of "Enumeration_{name}" where {name} is the enumeration's name with spaces replaced by underscores, e.g. "Enumeration_Ant_Path"
- The fields tables have ID attributes of "Field_Header" and "Field_QSO".
- Data types and fields that have greater than or minimum, and / or maximum values specified in their descriptions have the values surrounded by tags with the title attribute set to "GreaterThan", "Minimum", or "Maximum" e.g. 99999999
 GreaterThan is used where the text in the Specification feels more natural using it rather than a Minimum value. The GreaterThan value must be an integer and is converted to a Minimum value by adding 1. "GreaterThan" is not currently used with values containing a decimal point; "Minimum" can be used instead.

Ref. <https://groups.io/g/adifdev/message/6828>

Item 065: Add a list of US Counties

Status: Work in progress

Update 2024-07-16: No consensus was reached on this proposal for several reasons (although arguably the first item below is the main obstacle):

- At the time the proposal was raised, the Counties Award sponsor did not provide an electronic list of counties (and an attempt to obtain a paper one by making a payment was declined due to long-term unavailability).
- The publicly-available FIPS 6-4 document ceased to be provided in 2002.
- When this topic was last looked at, the replacement for FIPS 6-4 was an ANSI document that had to be paid for, making it an undesirable resource for amateur radio.
- There is a Wikipedia list but Wikipedia is usually not considered as an authoritative reference for ADIF: https://en.wikipedia.org/wiki/List_of_United_States_counties_and_county_equivalents
- Adding a list to ADIF would result in problems mapping whatever county names are currently in use in ADIF into the proposed ADIF list.

Ref.

Item 062.2: Update Primary Administrative Subdivision for Country Code 224 (Finland)

Status: *Ready for inclusion*

Update the table for Enumeration for Country Code 224 (Finland) adding a new column *Deleted* and the data provided in:

https://groups.io/g/adifdev/files/Enumeration_for_country_code_224_%28Finland%29_2017-03-16.csv

https://groups.io/g/adifdev/files/Enumeration_for_country_code_5_%28Aland_Is.%29_2017-03-16.csv

Ref. <https://groups.io/g/adifdev/message/6764>

<https://www.sral.fi/sv/hobbyyn/infobanken/kommunforteckning/>

Item 058: Remove FIPS 6-4 US County Link

Status: *Work in progress*

In "III.B.12 Secondary Administrative Subdivision Enumeration", the "FIPS 6-4" link is broken because FIPS 6-4 has been replaced by INCITS 38-2009[R2014] which has to be purchased from ANSI for \$38 :

https://standards.incits.org/apps/group_public/project/details.php?project_id=206.

I propose that the link is removed altogether and footnotes be added underneath the table:

"Alternative lists of US Counties:

[1] "2010 FIPS Codes for Counties and County Equivalent Entities"

<https://www.census.gov/geo/reference/codes/cou.html> provides lists of Counties by

State. Subsequent changes are documented in "Substantial Changes to Counties and County

Equivalent Entities: 1970-Present" <https://www.census.gov/geo/reference/county-changes.html>

[2] "INCITS 31-2009[R2014]: Information technology - Codes for the Identification of Counties and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas"

https://standards.incits.org/apps/group_public/project/details.php?project_id=204 is available for purchase from ANSI <http://webstore.ansi.org> "

Sponsors: G3ZOD, AA6YQ

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/messages/6727>