

## 13 Database Definitions

In the tables describing databases field the Type column will contain one of the following:

- Byte - An 8 bit (1 byte) unsigned integer
- Short - A 16 bit (2 byte) signed integer
- Long - A 32 bit (4 byte) signed integer
- Real - A 64 bit (8 byte) floating point number
- String - An alpha numeric string.

In the case of strings, the length of the string is shown in parenthesis. For arrays of bytes, shorts, longs, and reals, the number of elements is shown in parenthesis. For string arrays, the length of each element followed by the number of elements, are shown in parenthesis and are separated by a comma. I.E. "String(6,50)" refers to a 50 element array of 6 character strings.

### 13.1 Export file format

This section describes the format of the ASCII text generated by the Export function. This is not a free format file. While there is some flexibility in placement of data, it is quite limited. The format described here reflects the version of VEWD at the time it was written and is subject to change without notice.

Each VED file contains seven (7) sections, some of which are may not be present. They are

- 1) A header comment line
- 2) Session definition line
- 3) Optional code slot definition lines
- 4) Attending VE Count
- 5) Optional VE records (2 lines per record)
- 6) Candidate count
- 7) Optional candidate records (3 lines per record)

The VED file header is the first line in the file. The line generated by VEWD is of the form:

```
...□□□□.□□□□□□□□.2~::~.4~.8~95..□□□□□□□□.□□□□□□□□.□□□□.□□□□
```

The session definition line describes all the unique information required to re-create the session record except for the individual code slots. Table 13-1 describes the format of the session definition lines.

The code slot definition lines are only present if the number of code slots specified in the session definition line is non-zero. There is one code slot definition line per code slot. Table 13-2 describes the format of the code slot definition lines.

The Attending VE count is a single line containing the number of attending VE's. It may be zero. The VE lines are only present if the Attending VE count is non-zero. There are two VE lines per attending VE. slot. Table 13-3 describes the format of the first VE data line. The second VE data line is the 256 character notes field, without quotes.

The Candidate count is a single line containing the number of candidates. It may be zero. The candidate lines are only present if the Candidate count is non-zero. There are three candidate lines per candidate. Table 13-4 describes the format of the first candidate data line. Table 13-5 describes the format of the second candidate data line. The third candidate data line is the 256 character notes field, without quotes.

**Table 13-1 VED Session definition line**

Data	Format	Trailing delimiter
Session Date	MM/DD/YY	None
Session ID	1 Character	Space
City	Quoted String	Space
State	Quoted String	Space
Sponsor	Quoted String	Space
VEC	Quoted String	Space
Callarea	Quoted String	Space
Liaison	Quoted String	Space
Deleted Flag	Quoted String "Y" or "N"	Space
Fee	\$x.xx	Space
Retained	\$x.xx	Space
Sequence Max	nnn	Space
Code Slots	nn	Space
CSCE VE #1	6 Characters	None
CSCE VE #2	6 Characters	None
CSCE VE #3	6 Characters	None
FCC VE #1	6 Characters	None
FCC VE #2	6 Characters	None
FCC VE #3	6 Characters	Space
VEC Receipt date	MM/DD/YY	None

**Table 13-2 Code Slot definition line**

Data	Format	Trailing delimiter
Time	HH:MM	Space
Status	O, C or K	Space
User WPM	nn	Space
Current WPM	nn	Space
Max Candidates	nn	None

**Table 13-3 VE definition line 1**

Data	Format	Trailing delimiter
First Name	Quoted String	Space
Middle Initial	Quoted String	Space
Last Name	Quoted String	Space
Suffix	Quoted String	Space
Address	Quoted String	Space
City	Quoted String	Space
State	Quoted String	Space
Zipcode	nnnnn	Space
Night Phone	(nnn)nnn-nnnn	Space
Day Phone	(nnn)nnn-nnnn	Space
Callsign	Quoted String	Space
Class	Quoted String	Space
VE Expiration	MM/DD/YY	Space
License Expiration	MM/DD/YY	None

**Table 13-4 Candidate definition line 1**

Data	Format	Trailing delimiter
Sequence Number	nnn	Space
Registration #	nnn	Space
First Name	Quoted String	Space
Middle Initial	Quoted String	Space
Last Name	Quoted String	Space
Suffix	Quoted String	Space
Address	Quoted String	Space
City	Quoted String	Space
State	Quoted String	Space
Zipcode	nnnnn	Space
Night Phone	(nnn)nnn-nnnn	Space
Day Phone	(nnn)nnn-nnnn	Space
Date of Birth	mm/dd/yy	Space
Callsign	Quoted String	Space
FCC Class	Quoted String	Space
Effective Class	Quoted String	Space
Earned Class	Quoted String	Space

**Table 13-5 Candidate definition line 2**

Data	Format	Trailing delimiter
Spacer	4 spaces	None
CSCE Status	Y, N, or P	None
ID Verified	Y, N, or *	None
Complete	Y or N	None
610 Status	Y or N	Space
610 Item 4C	Y or N	None
610 Item 4D	Y or N	None
610 Item 4E	Y or N	None
610 Item 4F	Y or N	None
610 Item 6	Y or N	Space
Cand Signed	Y or N	None
VE #1 Signed	Y or N	None
VE #2 Signed	Y or N	None
VE #3 Signed	Y or N	None
FCC Review	Y or N	None
Keyer Initials	3 Characters	Space
610 Item 7B	MM/DD/YY	Space
Fee Paid	\$x.xx	Space
CSCE VE #1	6 Characters	None
CSCE VE #2	6 Characters	None
CSCE VE #3	6 Characters	None
FCC VE #1	6 Characters	None
FCC VE #2	6 Characters	None
FCC VE #3	6 Characters	Space
Element 1A	8 Characters	None

Data	Format	Trailing delimiter
Element 1B	8 Characters	None
Element 1C	8 Characters	None
Element 2	8 Characters	None
Element 3A	8 Characters	None
Element 3B	8 Characters	None
Element 4A	8 Characters	None
Element 4B	8 Characters	None

### 13.2 FCC Filing Format

This section describes the format of the ASCII text created by the Generate FCC filing data function. This is not a free format file. The data must conform to the format required by the FCC. The format described here reflects the version of VEWD at the time it was written and is subject to change without notice. Each record, session or candidate, contains multiple fields, not all of which are present. Each field is terminated by a vertical bar character (|). Each record is terminated by a carriage return and a line feed.

Each FCC file contains four (4) sections, some of which are may be repeated. They are

- 8) A VEWD header line
- 9) One or more Session definition lines
- 10) A VEWD session header line (1 per session)
- 11) Zero or more Candidate definitions lines (1 per session)

The session header line and candidate record block alternate in the file. The session header provides a convenient delimiter for visual inspection. The VEWD header is the first line in the file. It can have any text. This line is not specified by FCC and should be removed before submittal. The line generated by VEWD is of the form:

```
... □□□□ . □□□□□□□□ . 2 ~ ~ ~ . . 4 ~ . 8 ~ 95 . . . □□□□□□□□□□ . □□□□ . □□□□□□□□□□□□ . □□□□□□□□ . □□□□□□□□
```

The header line is followed by a blank line. The session definition lines contain the FCC required session data in the format required by the FCC. Table 13-6 describes the format of the session definition lines.

**Table 13-6 FCC Session definition line format**

Data	Format
VEC Code and Region	XNN, e.g. D01
Test date	MM/DD/YYYY
Test City	10 characters, no abbreviations, e.g. "BRATTLEBOR"
Test State	2 characters. Use DX for foreign
New license/upgrade count, minus holds.	nnn
New license/upgrade count, including holds.	nnn
No license or upgrade count	nnn
Exam elements passed	nnn
Exam elements failed	nnn
Reserved field 1	Must Be Blank
Reserved field 2	Must Be Blank
Reserved field 3	Must Be Blank
Holds	Holds: firstname lastname, firstname lastname, etc.

Data	Format
	If none, leave blank

The VEWD session header (1 per session) precedes the upgrade and new license candidate data for that session. It is followed by a blank line and provides a convenient delimiter for visual inspection. This line is not specified by FCC and should be removed before submittal. The line generated by VEWD is of the form:

□□□□□□□□□□ . □□□□□□□□ . □□ . □□□□□□□□

Zero or more Candidate definitions lines follow each VEWD session header. The number of candidate lines matches the count in parenthesis on the session header line. The candidate definition lines contain the FCC required candidate data in the format required by the FCC. Table 13-7 describes the format of the candidate definition lines. The reserved first field provides an initial vertical bar (|) at the start of each candidate record.

**Table 13-7 FCC Candidate definition line format**

Data	Format
Reserved	N/A
Callsign	6 characters. All capitals
Lastname Suffix, Firstname Middle initial	Space before suffix(if present). Space before Firstname. Space before Middle initial (if present). All capitals.
Address	All capitals. No punctuation. No PO boxes. Apartment or room number (number only)at end of address (e.g. “6 BIRCH DRIVE 5” for apartment 5. If address is PO Box, this field is blank.
Post Office Box.	Number only. If PO Box, the address is blank.
City	All capitals. Max 20 characters, no abbreviations, United States addresses only
State	2 characters. US States or AP for APO, FP for FPO.
Zipcode	Five or nine digits. No dash
Date of Birth	MM/DD/YYYY
Purpose (Form 610 Item 4)	A through F. A must be by itself. Any other actions may appear together, no spaces.
Old Lastname	All capitals. Max 10 characters. When purpose includes “C”
Reserved	Must be blank
License class before test session	Blank, N, T, P, G, A, or E. Where P is a Tech Plus.
Environmental impact	Q, Y or N. All capitals. Should be N, otherwise attachments must be provided.
Pending application	Q, Y or N. All capitals. Must be N to submit.
Applicants signature present	Must be Y
New License class earned	N, T, P, G, A, or E. Where P is a Tech Plus.
VEC receipt date	MM/DD/YYYY
VEC Code and Region	XNN, e.g. D01
Test date	MM/DD/YYYY
Test City	10 characters, no abbreviations, e.g. “BRATTLEBOR”
Test State	2 characters. Use DX for foreign

Data	Format
VE signatures present (VE1, VE2, VE3)	Must be “YYY”.
Physician’s Certification address, signature, and Patient’s Release Signature	Should be “NNN”, unless a certification is present. Then, must be “YYY”.
Additional review required	Should be N
VEC key entry person initials	If VE team, then used “VET”. All capitals.

### 13.3 The SESSION Database

The SESSION database contains a list of all the exam sessions conducted. There is one record per exam session. Table 13-8 describes the fields in the session database. There is one key file:

- Date and ID fields combined

**Table 13-8 SESSION Database Fields**

Field Name	Type	Description
DATE	Long	Date of exam session
ID	String(1)	ID for multiple same day sessions
LIAISON	String(6)	Callsign of Session liaison
CITY	String(32)	Session Location City
STATE	String(2)	Session Location State
SPONSOR	String(32)	Sponsor of session
VEC	String(32)	Volunteer Examiner Coordinator
CALLAREA	String(2)	FCC US call district
FEE	Real	Session Fee
RETAINED	Real	Portion of fee retained
SEQWRAP	Byte	Wrap limit on sequence numbers
MERGE	Long	Session merged into global database files: -1 = Hasn’t been; 0 = Has been; >0 = Has been, and has changed since
DELETED	String(1)	Candidate data deleted from history flag
VECRECEIPT	Long	Date of VEC Receipt
VECNT	Short	Attending VE count
VICNT	Short	Victim (candidate) Count
VIC73	Short	Victim (candidate) complete count
NOVELONLY	Short	Count of candidates that have taken novice elements only
CSCE2PRINT	Short	CSCE's to be printed
FCC2PRINT	Short	Form 610's to print
EARNED	Short(6)	Count of each license class earned (Novices, Technician, Technician Plus, General, Advanced, and Extra)
MARKED	Long	Temp Marker field used by Alt-M
CWSLOTS	Short	Number of CW test slots
VECALL	String(6,50)	Callsign list of VE's at session
VECLASS	String(1)(50)	Class (G, A, E) of VE's at time of session
LASTVECSCE	String(6)(3)	Callsigns of last 3 VE's signing CSCE's
LASTVEFCC	String(6)(3)	Callsigns of last 3 VE's signing FCC-610's
TIME	Long(16)	Time of CW Slot
SLOTCLOSED	String(1)(16)	Slot status (O, C, K)

Field Name	Type	Description
WPM	Short(16)	Current WPM/slot
USERWPM	Short(16)	User specified WPM/slot (0 = assign speed when first slot is allocated)
CWMAX	Short(16)	Maximum # of candidates in slot
CWVIC	Short(16)	Number of candidates in this CW slot
ELEMCNT	Short(8)	Element taken counts
ELEMPASS	Short(8)	Element passed counts
ELEMFAIL	Short(8)	Element failed counts

### ***13.4 The VEINFO Database***

The VEINFO database contains the personal data for Volunteer Examiners. There is one record per VE. Table 13-9 describes the fields in the VEINFO database. There are two key files:

- Last name field
- Callsign field

**Table 13-9 VEINFO Database Fields**

Field Name	Type	Description
LAST	String(20)	Last name
FIRST	String(16)	First name
MI	String(1)	Middle initial
SUF	String(4)	Suffix. Jr., Sr., III, etc.
ADR	String(32)	Address
CITY	String(20)	City/Town
STATE	String(2)	State
ZIP	Long	Zipcode
HPHONE	Decimal(10)	Home Phone number
WPHONE	Decimal(10)	Work Phone Number
CLASS	String(8)	Current License class
CALL	String(6)	Callsign
VEEXPIRE	Long	VE accreditation expiration date
LICEXPIRE	Long	License Expiration
NOTIFY	String(1)	Notify VE about next session (Y or N)
DATE	Long	Last Session Attended
ID	String(1)	ID of Last session Attended
SESSIONCNT	Short	Total Sessions Attended
DELETEDCNT	Short	Deleted Session Count - Sessions attended by VE that have been deleted from SESSION database.
NOTES	String(32,8)	Miscellaneous text

### ***13.5 The ATTVE Database***

The ATTVE database contains a list of all the VE's in the current exam session. There is one record per VE. Table 13-10 describes the fields in the ATTVE database. There are two key files:

- Date and ID fields combined
- Callsign field

**Table 13-10 ATTVE/ATTVEG Database Fields**

Field Name	Type	Description
CALL	String(6)	Callsign
CLASS	String(8)	Class of VE at time of session
DATE	Long	Date of Session
ID	String(1)	Session ID

**13.6 The VICTIMS Database**

The VICTIMS database contains a list of all the candidates in the current exam session. There is one record per candidate. A re-registration of a candidate counts as an additional candidate and results in another record. Table 13-11 describes the fields in the VICTIMS database. There are three key files:

- Date and ID fields combined
- Last name field
- Callsign field

**Table 13-11 VICTIMS/VICTIMG Database Fields**

Field Name	Type	Description
DATE	Long	Date of session
ID	String(1)	Session ID
SEQNO	Byte	Sequence number
REQNO	Byte	Re-registration count
LAST	String(20)	Last name
FIRST	String(16)	First name
MI	String(1)	Middle initial
SUF	String(4)	Suffix. Sr., Jr., III, etc.
ADR	String(32)	Address
CITY	String(20)	City/Town
STATE	String(2)	State
ZIP	Long	Zipcode
HPHONE	Decimal(10)	Night/Home Phone number
WPHONE	Decimal(10)	Work/Day Phone number
DOB	Long	Date of Birth
CALL	String(6)	Callsign
CLASS	String(8)	Current License class
VCLASS	String(8)	Effective operating class
NEWCLASS	String(8)	New class earned
CSCE	String(1)	CSCE Issued/Printed (N, Y, P)
EYEDDED	String(1)	Credentials verified
COMPLETE	String(1)	Testing completion status
FCC610	String(1)	610 Needed/Printed (N, Y, P)
FEE	Real	Paid session fee
VECSC	String(6,3)	VE's signing CSCE
VEFCC	String(6,3)	VE's signing 610
ELEMENTS	String(8)	Element status
FCC4C	String(1)	Form 610 Item 4C Status
FCC4D	String(1)	Form 610 Item 4D Status



Field Name	Type	Description
FCC4E	String(1)	Form 610 Item 4E Status
FCC4F	String(1)	Form 610 Item 4F Status
FCC6	String(1)	Form 610 Item 6 Status
FCC7B	String(1)	Form 610 Item 7B Status
SIGNVICTIM	String(1)	Candidate signature status
SIGNVE1	String(1)	VE 1 Signature status
SIGNVE2	String(1)	VE 2 Signature status
SIGNVE3	String(1)	VE 3 Signature status
FCCREVIEW	String(1)	Should FCC review application
DATADWEEB	String(3)	Data entry person Initials
NOTES	String(64,4)	

### ***13.7The VICTIMG Database***

The VICTIMG database contains a list of all the candidates in every examination session. It is the sum of the VICTIMS database for each session that has been conducted. Table 13-11 describes the fields in the ATTVE database. There are three key files:

- Date and ID fields combined
- Last name field
- Callsign field

### ***13.8The LOCATION Database***

The LOCATION database contains a list of City, State, and Zipcodes triples. It is used to speed data entry by allowing manual and automatic lookups of one or two of the fields based on the value of the other field(s). Table 13-12 describes the fields in the LOCATION database. There are two key files:

- City field
- Zipcode field

**Table 13-12 LOCATION Database Fields**

Field Name	Type	Description
CITY	String(20)	Town or City
STATE	String(2)	State
ZIP	Long	Zipcode

### ***13.9The DEFAULTS Database***

The DEFAULTS database contains the defaults for the VE team. There is a minimum of one record in this database. Table 13-13 describes the fields in the DEFAULTS database. There is one key file:

- Name field

**Table 13-13 DEFAULTS Database Fields**

Field Name	Type	Description
NAME	String(32)	Configuration Name
DEFAULT	Short	Flag for default configuration record
LIAISON	String(6)	Default Team Leader Callsign
SEQWRAP	Byte	Default wrap limit on sequence numbers
LPT610	String(12)	Printer type for 610's

Field Name	Type	Description
LPTCSCE	String(12)	Printer type for CSCE's
LPTRPTS	String(12)	Printer type for reports
DEVICE610	String(12)	Print device for 610's
DEVICECSCE	String(12)	Print device for CSCE's
DEVICERPTS	String(12)	Print device for reports
FILLINVE	String(1)	Fill in CSCE/610 Signatures
LOOKUPVCALL	String(1)	Lookup Victim on Callsign
LOOKUPVNAME	String(1)	Lookup victim on last name
LOOKUPCITY	String(1)	Lookup city
LOOKUPZIP	String(1)	Lookup zipcode
ADDNEWCITIES	String(1)	Add new cities to LOCATION database
ADRATREG	String(1)	Require Address @ Registration
AUTOPRINT	String(1)	Automatically print on candidate completion Enabled
AUTOPRTCSCCE	String(1)	Automatically print CSCE's on candidate completion
AUTOPRT610	String(1)	Automatically print 610's on candidate completion
AUTOCLOSE	String(1)	Automatically close CW slots when past start time
VEC	String(32)	Default Sponsoring VEC
CALLAREA	String(2)	FCC call district
CITY	String(32)	City of Session
STATE	String(32)	State of Session
SPONSOR	String(32)	Sponsor of session
FEE	Real	Session Fee
RETAINED	Real	Portion of fee retained
CWMAX	Short	Max victims/CW slot
CWINTERVAL	Long	Average time between CW slots
BACKINT	Long	Backup interval
BACKCMD	String(32)	What to execute on
VECSCE	String(6,3)	VE's signing CSCE
VEFCC	String(6,3)	VE's signing 610

### 13.10 The VECLIST Database

The VECLIST database contains a list of all the Volunteer Examiner Coordinator's (VEC's) currently in existence. There is one record per VEC. Table 13-14 describes the fields in the VECLIST database. There is one key file, the VEC field. This is a fixed database, and cannot be changed by the user. Its only purpose is the scrolling list that pops up on the Define Session form, when an incorrect VEC is entered, and to store the FCC assigned VEC identification letter. The VEC's currently in the VECLIST database are shown in Table 13-15.

**Table 13-14 VECLIST Database Fields**

Field Name	Type	Description
VEC	String(32)	A Valid VEC
FCCID	String(1)	One character FCC assigned VEC ID

**Table 13-15 Current VEC's**

Anchorage Amateur Radio Club	Laurel Amateur Radio Club
ARRL/VEC	Milwaukee Radio Amateurs Club

Central Alabama VEC	Mountain Amateur Radio Club
Charlotte VEC	PHD Amateur Radio Association
DeVry Amateur Radio Society	Sandarc-VEC
Golden Empire ARS	Sunnyvale VEC Amateur Radio Club
Greater Los Angeles ARG	Triad Emergency ARC
Jefferson Amateur Radio Club	W5YI-VEC
Koolau Amateur Radio Club	Western Carolina ARS VEC

### ***13.11 The ELEMSTAT Database***

The ELEMSTAT database contains a list of all the valid choices for element status, excluded CSCE dates. Table 13-16 describes the fields in the ELEMSTAT database. There is one key file, the status field. This is a fixed database, and cannot be changed by the user. Its only purpose is the scrolling list that pops up on form containing element status when an incorrect value is entered. The values in the ELEMSTAT database are shown in Table 13-17.

**Table 13-16 ELEMSTAT Database Fields**

Field Name	Type	Description
STATUS	String(8)	An element status

**Table 13-17 ELEMSTAT Values**

• Credit	Candidate has credit for this element. I.E. Grandfather credit for element 3B for Technicians licensed before 21 March 1987.
• Exempt	Candidate has an exemption for this element. I.E. Physician's certificate for the Morse code exemption.
• Fail	Candidate has failed this element.
• Grading	Candidate has taken this element, and it has not been graded yet.
• Pass	Candidate has passed this element.
• Taking	Candidate is currently taking this element.
• Wants	Candidate wants to take this element.

