Password Vault File Structure

The password vault has the following file structure on disk. To keep things simple, all integers will be unsigned and stored in native byte order (little endian).

Size (bytes)	Name	Description
8	ppSalt	Salt for the user's master passphrase
12	keyEncNonce	Nonce for the database key encryption
16	keyEncAuthTag	Authentication Tag for the encrypted database key
16	keyEncData	Encrypted database key
2	dbVersion	DB version number
4	dbSize	Size of the encrypted password database (in bytes)
12	dbEncNonce	Nonce for the encrypted password database
16	dbEncAuthTag	Authentication tag for the encrypted password database
dbsize	dbEncData	The encrypted password database

The decrypted password database structure is as follows:

Size (bytes)	Name	Description
4	entryCount	Number of accounts/entries in the password database
dbSize	dbEntries	The account data

Each account record has the following structure. Note that strings are *not* NULL-terminated.

Size (bytes)	Name	Description
4	recordSize	Size of the account record (in bytes), including this field
2	pwSize	Size of the encrypted password
12	pwEncNonce	Nonce for the encrypted password
16	pwEncAuthTag	Authentication tag for the encrypted password
pwSize	pwEncData	Encrypted password
2	acctNameLen	Length of the account name
acctNameLen	acctName	Account name
2	acctLoginLen	Length of the account login name

acctLoginLen	acctLogin	Account login name (username)
2	acctUrlLen	Length of the account URL
acctUrlLen	acctUrl	URL to the account

Sample Vault

A sample vault file is provided with the source distribution. The passphrase for this vault is:

An enticing aroma of fruit flavors accented by licorice.

The passwords for the three accounts defined in this vault are:

```
addition pack solar ring
GLV2TE@#P+FvMC?B9wYBz5rj
Old-Tongue Opportunity-ball
```

The master key is:

ca ab 23 30 eb a7 db 71 eb ed 10 91 7f 78 88 c2

The database/vault key is:

9b 34 4f fb bb d5 4d 52 23 b6 03 f0 aa da 9b 7a