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*****
54361 Wed Jan 15 00:51:01 2014
new/usr/src/cmd/lofiadm/main.c
4178 lofiadm usage message for the -a option is bogus
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*****
1 /*
2  * CDDL HEADER START
3  *
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16 * fields enclosed by brackets "[" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 * Copyright 2012 Joyent, Inc. All rights reserved.
25 *
26 * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
27 */
28
29 /*
30 * lofiadm - administer lofi(7d). Very simple, add and remove file<->device
31 * associations, and display status. All the ioctls are private between
32 * lofi and lofiadm, and so are very simple - device information is
33 * communicated via a minor number.
34 */
35
36 #include <sys/types.h>
37 #include <sys/param.h>
38 #include <sys/lofi.h>
39 #include <sys/stat.h>
40 #include <sys/sysmacros.h>
41 #include <netinet/in.h>
42 #include <stdio.h>
43 #include <fcntl.h>
44 #include <locale.h>
45 #include <string.h>
46 #include <strings.h>
47 #include <errno.h>
48 #include <stdlib.h>
49 #include <unistd.h>
50 #include <stropts.h>
51 #include <libdevinfo.h>
52 #include <libgen.h>
53 #include <ctype.h>
54 #include <dlfcn.h>
55 #include <limits.h>
56 #include <security/cryptoki.h>
57 #include <cryptoutil.h>
58 #include <sys/crypto/ioctl.h>
59 #include <sys/crypto/ioctladmin.h>
60 #include "utils.h"

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61 #include <LzmaEnc.h>
62
63 /* Only need the IV len #defines out of these files, nothing else. */
64 #include <aes/aes_impl.h>
65 #include <des/des_impl.h>
66 #include <blowfish/blowfish_impl.h>
67
68 static const char USAGE[] =
69     "Usage: %s [-r] -a file [ device ]\n"
70     "         %s [-r] -c crypto_algorithm -a file [device]\n"
71     "         %s [-r] -c crypto_algorithm -k raw_key_file -a file [device]\n"
72     "         %s [-r] -c crypto_algorithm -T [token]:[manuf]:[serial]:key "
73     "         -a file [device]\n"
74     "         %s [-r] -c crypto_algorithm -T [token]:[manuf]:[serial]:key "
75     "         -k wrapped_key_file -a file [device]\n"
76     "         %s [-r] -c crypto_algorithm -e -a file [device]\n"
77     "Usage: %s [-r] -a file [ device ] "
78     "         [-c aes-128-cbc/aes-192-cbc/aes-256-cbc/des3-cbc/blowfish-cbc]"
79     "         [-e] [-k keyfile] [-T [token]:[manuf]:[serial]:key]\n"
80     "         %s -d file | device\n"
81     "         %s -C [gzip|gzip-6|gzip-9|lzma] [-s segment_size] file\n"
82     "         %s -U file\n"
83     "         %s [ file | device ]\n";
84
85 typedef struct token_spec {
86     char *name;
87     char *mfr;
88     char *serno;
89     char *key;
90 } token_spec_t;
91
92 unchanged_portion_omitted
93
94 /* For displaying lofi mappings */
95 #define FORMAT "%-20s %%-30s %s\n"
96
97 #define COMPRESS_ALGORITHM "gzip"
98 #define COMPRESS_THRESHOLD 2048
99 #define SEG_SIZE 131072
100 #define BLOCK_SIZE 512
101 #define KILOBYTE 1024
102 #define MEGABYTE (KILOBYTE * KILOBYTE)
103 #define GIGABYTE (KILOBYTE * MEGABYTE)
104 #define LIBZ "libz.so"
105
106 static void
107 usage(const char *pname)
108 {
109     (void) fprintf(stderr, gettext(USAGE), pname, pname, pname,
110                    pname, pname, pname, pname, pname, pname);
111     exit(E_USAGE);
112 }
113
114 unchanged_portion_omitted

```