

```

*****
      8210 Sun Mar 18 01:13:02 2018
new/usr/src/common/smbsrv/smb_door_legacy.c
1575 untangle libmlrpc .. (smbsrv)
*****

```

```

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26 */

28 /*
29 * Legacy encode/decode routines for door clients and servers.
30 */

32 #if !defined(_KERNEL) && !defined(_FAKE_KERNEL)
33 #include <errno.h>
34 #include <string.h>
35 #include <strings.h>
36 #else
37 #include <sys/types.h>
38 #include <sys/sunddi.h>
39 #include <sys/errno.h>
40 #endif

42 #include <smb/wintypes.h>
42 #include <smbsrv/wintypes.h>
43 #include <smbsrv/smb_share.h>
44 #include <smbsrv/smb_door.h>
45 #include <smbsrv/alloc.h>
46 #include <smbsrv/smbinfo.h>

48 smb_dr_ctx_t *
49 smb_dr_decode_start(char *ptr, int size)
50 {
51     smb_dr_ctx_t *ctx = MEM_MALLOC("CommonDoor", sizeof (smb_dr_ctx_t));
52     if (ctx) {
53         ctx->start_ptr = ctx->ptr = ptr;
54         ctx->end_ptr = ptr + size;
55         ctx->status = 0;
56     }
57     return (ctx);
58 }

```

unchanged portion omitted

```

*****
7058 Sun Mar 18 01:13:03 2018
new/usr/src/common/smbsrv/smb_token_xdr.c
1575 untangle libmlrpc .. (smbsrv)
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26 */

28 /*
29 * This file was originally generated using rpcgen.
30 */

32 #if !defined(_KERNEL) && !defined(_FAKE_KERNEL)
33 #include <stdlib.h>
34 #endif /* !_KERNEL */
35 #include <smb/wintypes.h>
36 #include <smbsrv/wintypes.h>
37 #include <smbsrv/smb_sid.h>
38 #include <smbsrv/smb_xdr.h>
39 #include <smbsrv/smb_token.h>

40 static bool_t smb_privset_xdr(XDR *, smb_privset_t *);
41 static bool_t smb_sid_xdr(XDR *, smb_sid_t *);

43 static bool_t
44 smb_privset_helper_xdr(XDR *xdrs, char **privs)
45 {
46     uint32_t pos, len;
47     uint32_t cnt;
48     bool_t rc;
49     smb_privset_t *p;

51     if (xdrs->x_op == XDR_DECODE) {
52         pos = xdr_getpos(xdrs);

54         if (!xdr_bool(xdrs, &rc))
55             return (FALSE);

57         if (!xdr_uint32_t(xdrs, &cnt))
58             return (FALSE);

60         rc = xdr_setpos(xdrs, pos);

```

```

62         if (rc == FALSE)
63             return (FALSE);
64     } else {
65         if (*privs == NULL)
66             return (FALSE);

68         p = (smb_privset_t *) (uintptr_t) *privs;
69         cnt = p->priv_cnt;
70     }

72     len = sizeof (smb_privset_t)
73           - sizeof (smb_luid_attrs_t)
74           + (cnt * sizeof (smb_luid_attrs_t));

76     if (!xdr_pointer(xdrs, privs, len, (xdrproc_t) smb_privset_xdr))
77         return (FALSE);

79     return (TRUE);
80 }
_____unchanged_portion_omitted_____

```

new/usr/src/lib/smbstrv/Makefile

1

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1133 Sun Mar 18 01:13:03 2018

new/usr/src/lib/smbstrv/Makefile

1575 untangle libmlrpc .. (smbstrv)

\*\*\*\*\*

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25 #
26 #
27 include ../Makefile.lib
28 #
29 SUBDIRS = \
30     libfksmbstrv \
31     libmlsvc \
32     libmlrpc \
33     lib smb \
34     lib smbns \
35     lib smbbrp
36 include ../Makefile.subdirs
37 #
38 libmlrpc: lib smb
39 lib smbns: lib smb
40 lib mlsvc: lib smb lib smbns
41 lib mlrpc: lib smb lib mlrpc lib smbns
42 lib fksmbstrv: lib smb
```

new/usr/src/lib/smbsrv/Makefile.targ

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1244 Sun Mar 18 01:13:03 2018

new/usr/src/lib/smbsrv/Makefile.targ

1575 untangle libmlrpc .. (smbsrv)

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26 #
27 #ident "%Z%M% %I% %E% SMI"

28 #
29 # Common targets for smbsrv Makefiles
30 #

32 %_ndr.c: $(NDLDIR)/%.ndl
33     $(NDRGEN) -Y $(ANSI_CPP) $(CPPFLAGS) $<
34     $(NDRGEN) -Y $(CC) $<

35 pics/%.o: $(SRC)/common/smbsrv/%.c
36     $(COMPILE.c) -o $@ $<
37     $(POST_PROCESS_O)

39 pics/%.o := CPPFLAGS += -I$(ROOTSMBHDRDIR)/ndl

41 .KEEP_STATE:

43 all: $(LIBS)

45 lint: lintcheck
```

new/usr/src/lib/smbstrv/libmlsvc/common/dssetup\_clnt.c

1

```
*****
2668 Sun Mar 18 01:13:03 2018
new/usr/src/lib/smbstrv/libmlsvc/common/dssetup_clnt.c
1575 untangle libmlrpc .. (smbstrv)
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24 */

26 /*
27 * Client side for the DSSETUP RPC service.
28 */

30 #include <string.h>
31 #include <strings.h>
32 #include <smb/wintypes.h>
32 #include <smbstrv/wintypes.h>
33 #include <smbstrv/libmsmb.h>
34 #include <smbstrv/ndl/dssetup.ndl>
35 #include <smbstrv/libmlsvc.h>

37 int
38 dssetup_get_domain_info(ds_primary_domain_info_t *ds_info)
39 {
40     dssetup_DsRoleGetPrimaryDomainInfo_t arg;
41     struct dssetup_DsRolePrimaryDomInfo_t *info;
42     smb_domainex_t di;
43     mlsvc_handle_t handle;
44     int opnum;
45     int rc;

47     if (!smb_domain_getinfo(&di))
48         return (-1);

50     if (ndr_rpc_bind(&handle, di.d_dci.dc_name, di.d_primary.di_nbname,
51         MLSVC_ANON_USER, "DSSETUP") != 0)
52         return (-1);

54     opnum = DSSETUP_OPNUM_DsRoleGetPrimaryDomainInfo;
55     bzero(&arg, sizeof (dssetup_DsRoleGetPrimaryDomainInfo_t));
56     arg.level = DS_ROLE_BASIC_INFORMATION;

58     rc = ndr_rpc_call(&handle, opnum, &arg);
59     if ((rc != 0) || (arg.status != 0) || arg.info == NULL) {
60         ndr_rpc_unbind(&handle);
```

new/usr/src/lib/smbstrv/libmlsvc/common/dssetup\_clnt.c

2

```
61         return (-1);
62     }

64     info = &arg.info->ru.infol;

66     if (info->nt_domain == NULL ||
67         info->dns_domain == NULL ||
68         info->forest == NULL) {
69         ndr_rpc_unbind(&handle);
70         return (-1);
71     }

73     bcopy(info, ds_info, sizeof (ds_primary_domain_info_t));
74     ds_info->nt_domain = (uint8_t *)strdup((char *)info->nt_domain);
75     ds_info->dns_domain = (uint8_t *)strdup((char *)info->dns_domain);
76     ds_info->forest = (uint8_t *)strdup((char *)info->forest);

78     ndr_rpc_unbind(&handle);
79     return (0);
80 }
_____unchanged_portion_omitted_____
```

```
*****
6751 Sun Mar 18 01:13:03 2018
new/usr/src/lib/smbdrv/libmlsvc/common/dssetup_svc.c
1575 untangle libmlrpc .. (smbdrv)
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27 /*
28  * Active Directory Setup RPC interface used by Windows 2000.
29  */

31 #include <synch.h>
32 #include <strings.h>
33 #include <stdlib.h>
34 #include <netdb.h>

36 #include <libmlrpc/libmlrpc.h>
37 #include <smbdrv/libmb.h>
38 #include <smbdrv/libmlrpc.h>
39 #include <smbdrv/libmlsvc.h>
40 #include <smbdrv/ndl/dssetup.ndl>
41 #include <smbdrv/smbinfo.h>
42 #include <smbdrv/nmpipes.h>

43 int dssetup_get_domain_info(ds_primary_domain_info_t *);

45 static int dssetup_DsRoleGetPrimaryDomainInfo(void *, ndr_xa_t *);
46 static uint32_t dssetup_member_server(ds_primary_domain_info_t *, ndr_xa_t *);
47 static uint32_t dssetup_standalone_server(ds_primary_domain_info_t *,
48     ndr_xa_t *);

50 static ndr_stub_table_t dssetup_stub_table[] = {
51     { dssetup_DsRoleGetPrimaryDomainInfo,
52       DSSETUP_OPNUM_DsRoleGetPrimaryDomainInfo },
53     {0}
54 };
unchanged_portion_omitted
```

new/usr/src/lib/smbstr/libmlsvc/common/eventlog\_svc.c

1

```

*****
15457 Sun Mar 18 01:13:03 2018
new/usr/src/lib/smbstr/libmlsvc/common/eventlog_svc.c
1575 untangle libmlrpc ... (smbstr)
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25  */

27 /*
28  * Event Log Service RPC (LOGR) interface definition.
29  */
30 #include <sys/utsname.h>
31 #include <unistd.h>
32 #include <strings.h>
33 #include <libmlrpc/libmlrpc.h>
34 #include <smbstr/libmb.h>
35 #include <smbstr/libmlrpc.h>
36 #include <smbstr/nmpipes.h>
37 #include <smbstr/libmlsvc.h>
38 #include <smbstr/ndl/eventlog.ndl>

40 #define LOGR_FWD          +1
41 #define LOGR_REW          -1
42 #define LOGR_RECORD_SIGNATURE 0x654C664C

44 #define LOGR_PRI(p)      ((p) & LOG_PRIMASK)
45 #define LOGR_WNSTRLEN(S) ((strlen((S)) + 1) * sizeof (smb_wchar_t))

47 #define LOGR_MSG_DWORD_OFFSET 12
48 #define LOGR_MSG_WORD_OFFSET  4

50 /*
51  * READ flags for EventLogRead
52  *
53  * EVENTLOG_SEEK_READ
54  * The read operation proceeds from the record specified by the
55  * dwRecordOffset parameter. This flag cannot be used with
56  * EVENTLOG_SEQUENTIAL_READ.
57  *
58  * EVENTLOG_SEQUENTIAL_READ
59  * The read operation proceeds sequentially from the last call to the
60  * ReadEventLog function using this handle. This flag cannot be used

```

new/usr/src/lib/smbstr/libmlsvc/common/eventlog\_svc.c

2

```

61  * with EVENTLOG_SEEK_READ.
62  *
63  * If the buffer is large enough, more than one record can be read at
64  * the specified seek position; you must specify one of the following
65  * flags to indicate the direction for successive read operations.
66  *
67  * EVENTLOG_FORWARDS_READ
68  * The log is read in chronological order. This flag cannot be used
69  * with EVENTLOG_BACKWARDS_READ.
70  *
71  * EVENTLOG_BACKWARDS_READ
72  * The log is read in reverse chronological order. This flag cannot be
73  * used with EVENTLOG_FORWARDS_READ.
74  */
75 #define EVENTLOG_SEQUENTIAL_READ      0x0001
76 #define EVENTLOG_SEEK_READ           0x0002
77 #define EVENTLOG_FORWARDS_READ       0x0004
78 #define EVENTLOG_BACKWARDS_READ      0x0008

80 /*
81  * The types of events that can be logged.
82  */
83 #define EVENTLOG_SUCCESS              0x0000
84 #define EVENTLOG_ERROR_TYPE          0x0001
85 #define EVENTLOG_WARNING_TYPE        0x0002
86 #define EVENTLOG_INFORMATION_TYPE    0x0004
87 #define EVENTLOG_AUDIT_SUCCESS       0x0008
88 #define EVENTLOG_AUDIT_FAILURE       0x0010

90 /*
91  * Event Identifiers
92  *
93  * Event identifiers uniquely identify a particular event. Each event
94  * source can define its own numbered events and the description strings
95  * to which they are mapped. Event viewers can present these strings to
96  * the user. They should help the user understand what went wrong and
97  * suggest what actions to take. Direct the description at users solving
98  * their own problems, not at administrators or support technicians.
99  * Make the description clear and concise and avoid culture-specific
100 * phrases.
101 *
102 * The following diagram illustrates the format of an event identifier.
103 *
104 *   3 3 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1
105 *   1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
106 *   +---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
107 *   |Sev|C|R|          Facility          |          Code          |
108 *   +---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
109 *
110 * Sev
111 *   Indicates the severity. This is one of the following values:
112 *   00 - Success
113 *   01 - Informational
114 *   10 - Warning
115 *   11 - Error
116 *
117 * C
118 *   Indicates a customer code (1) or a system code (0).
119 *
120 * R
121 *   Reserved bit.
122 *
123 * Facility
124 *   Facility code.
125 *
126 * Code
127 *   Status code for the facility.
128 *
129 *
130 #define EVENTID_SEVERITY_SUCCESS      0x00000000

```

```
127 #define EVENTID_SEVERITY_INFO      0x40000000
128 #define EVENTID_SEVERITY_WARNING   0x80000000
129 #define EVENTID_SEVERITY_ERROR     0xC0000000

131 #define EVENTID_SYSTEM_CODE        0x00000000
132 #define EVENTID_CUSTOMER_CODE     0x20000000

134 static int logr_s_EventLogClose(void *, ndr_xa_t *);
135 static int logr_s_EventLogQueryCount(void *, ndr_xa_t *);
136 static int logr_s_EventLogGetOldestRec(void *, ndr_xa_t *);
137 static int logr_s_EventLogOpen(void *, ndr_xa_t *);
138 static int logr_s_EventLogRead(void *, ndr_xa_t *);

140 static ndr_stub_table_t logr_stub_table[] = {
141     { logr_s_EventLogClose,      LOGR_OPNUM_EventLogClose },
142     { logr_s_EventLogQueryCount, LOGR_OPNUM_EventLogQueryCount },
143     { logr_s_EventLogGetOldestRec, LOGR_OPNUM_EventLogGetOldestRec },
144     { logr_s_EventLogOpen,      LOGR_OPNUM_EventLogOpen },
145     { logr_s_EventLogRead,      LOGR_OPNUM_EventLogRead },
146     { 0 }
147 };
_____unchanged_portion_omitted_____
```



new/usr/src/lib/smbsrv/libmlsvc/common/libmlsvc.h

1

```
*****
8943 Sun Mar 18 01:13:03 2018
new/usr/src/lib/smbsrv/libmlsvc/common/libmlsvc.h
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24 */

26 #ifndef _LIBMLSVC_H
27 #define _LIBMLSVC_H

29 #include <uuid/uuid.h>
29 #include <sys/param.h>
30 #include <sys/types.h>
31 #include <sys/uio.h>
32 #include <sys/ksynch.h>
33 #include <uuid/uuid.h>

35 #include <time.h>
36 #include <stdio.h>
37 #include <string.h>
38 #include <syslog.h>
39 #include <netdb.h>
40 #include <libuutil.h>

42 #include <smb/wintypes.h>
43 #include <libmlrpc/libmlrpc.h>

39 #include <smbsrv/wintypes.h>
45 #include <smbsrv/hash_table.h>
46 #include <smbsrv/smb_token.h>
47 #include <smbsrv/smb_privilege.h>
48 #include <smbsrv/smb_share.h>
49 #include <smbsrv/smb_xdr.h>
50 #include <smbsrv/smb_dfs.h>
51 #include <smbsrv/lib smb.h>
47 #include <smbsrv/libmlrpc.h>
48 #include <smbsrv/ndl/lsarpc.ndl>

53 #ifdef __cplusplus
54 extern "C" {
55 #endif

57 uint32_t lsa_lookup_name(char *, uint16_t, smb_account_t *);
```

new/usr/src/lib/smbsrv/libmlsvc/common/libmlsvc.h

2

```
58 uint32_t lsa_lookup_sid(smb_sid_t *, smb_account_t *);

60 /*
61  * SMB domain API to discover a domain controller and obtain domain
62  * information.
63  */

65 extern boolean_t smb_locate_dc(char *, smb_domainex_t *);
66 uint32_t smb_ddiscover_dns(char *, smb_domainex_t *);
67 extern void smb_ddiscover_bad_dc(char *);
68 extern void smb_ddiscover_refresh(void);
69 extern int smb_ddiscover_wait(void);

71 extern int dssetup_check_service(void);
72 extern void dssetup_clear_domain_info(void);
73 extern void mlsvc_disconnect(const char *);
74 extern int mlsvc_init(void);
75 extern void mlsvc_fini(void);
76 extern DWORD mlsvc_netlogon(char *, char *);
77 extern void mlsvc_join(smb_joininfo_t *, smb_joinres_t *);

79 extern void smb_logon_domain(smb_logon_t *, smb_token_t *);
80 extern uint32_t smb_decode_krb5_pac(smb_token_t *, char *, uint_t);
81 extern boolean_t smb_token_setup_common(smb_token_t *);

84 /*
85  * The maximum number of domains (NT limit).
86  */
87 #define MLSVC_DOMAIN_MAX 32

89 #define MLSVC_ANON_USER "IPC$"

91 char *mlsvc_ipc_name(int ipc_type, char *username);

93 /*
94  * Passthrough negotiation and authentication interface.
95  *
96  * NT supports two forms of password: a Lanman (case-insensitive)
97  * password and an NT (case-sensitive) password. If either of the
98  * passwords is not available its pointer and length should be set
99  * to zero. The session key and vc number are required to validate
100  * the encrypted passwords.
101  */

103 void mlsvc_nt_password_hash(char *result, char *password);
104 int mlsvc_encrypt_nt_password(char *password, char *key, int keylen, char *out,
105 int outmax);

107 #define SMB_AUTOHOME_FILE "smbautohome"
108 #define SMB_AUTOHOME_PATH "/etc"

110 typedef struct smb_autohome {
111     struct smb_autohome *ah_next;
112     uint32_t ah_hits;
113     time_t ah_timestamp;
114     char *ah_name; /* User account name */
115     char *ah_path; /* Home directory path */
116     char *ah_container; /* ADS container distinguished name */
117 } smb_autohome_t;
unchanged_portion_omitted

130 int srvsvc_net_remote_tod(char *, char *, struct timeval *, struct tm *);

133 /*
```

```

134 * A client_t is created while binding a client connection to hold the
135 * context for calls made using that connection.
136 *
137 * Handles are RPC call specific and we use an inheritance mechanism to
138 * ensure that each handle has a pointer to the client_t. When the top
139 * level (bind) handle is released, we close the connection.
140 */
141 typedef struct mlrpc_handle mlsvc_handle_t;
142 typedef struct mlsvc_handle {
143     ndr_hdid_t             handle;
144     ndr_client_t          *clnt;
145 } mlsvc_handle_t;
146
147 /* mlsvc_client.c */
148 void ndr_rpc_init(void);
149 void ndr_rpc_fini(void);
150 uint32_t ndr_rpc_bind(mlsvc_handle_t *, char *, char *, char *, const char *);
151 void ndr_rpc_unbind(mlsvc_handle_t *);
152 int ndr_rpc_call(mlsvc_handle_t *, int, void *);
153 void ndr_rpc_set_nonnull(mlsvc_handle_t *);
154 int ndr_rpc_get_ssnkey(mlsvc_handle_t *, unsigned char *, size_t);
155 void *ndr_rpc_malloc(mlsvc_handle_t *, size_t);
156 ndr_heap_t *ndr_rpc_get_heap(mlsvc_handle_t *);
157 void ndr_rpc_release(mlsvc_handle_t *);
158 boolean_t ndr_is_null_handle(mlsvc_handle_t *);
159 boolean_t ndr_is_bind_handle(mlsvc_handle_t *);
160 void ndr_inherit_handle(mlsvc_handle_t *, mlsvc_handle_t *);
161 void ndr_rpc_status(mlsvc_handle_t *, int, uint32_t);
162
163 /* These three get info about the connected client. */
164 boolean_t ndr_is_admin(ndr_xa_t *);
165 boolean_t ndr_is_poweruser(ndr_xa_t *);
166 int32_t ndr_native_os(ndr_xa_t *);
167
168 /* SRVSVC */
169 int srvsvc_net_remote_tod(char *, char *, struct timeval *, struct tm *);
170
171 /* SVCCTL service */
172 /*
173 * Calculate the wide-char equivalent string length required to
174 * store a string - including the terminating null wide-char.
175 */
176 #define SVCCTL_WNSTRLEN(S)      ((strlen((S)) + 1) * sizeof (smb_wchar_t))
177
178 /* An AVL-storable node representing each service in the SCM database. */
179 typedef struct svcctl_svc_node {
180     uu_avl_node_t      sn_node;
181     char               *sn_name;      /* Service Name (Key) */
182     char               *sn_fmri;     /* Display Name (FMRI) */
183     char               *sn_desc;     /* Description */
184     char               *sn_state;    /* State */
185 } svcctl_svc_node_t;
186
187 unchanged_portion_omitted

```

new/usr/src/lib/smbdrv/libmlsvc/common/lsar\_svc.c

1

\*\*\*\*\*

36898 Sun Mar 18 01:13:03 2018

new/usr/src/lib/smbdrv/libmlsvc/common/lsar\_svc.c

1575 untangle libmlrpc .. (smbdrv)

\*\*\*\*\*

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20 */

22 /*
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24  * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
25  */

27 /*
28  * Local Security Authority RPC (LSAR) server-side interface.
29  */

31 #include <unistd.h>
32 #include <strings.h>
33 #include <pwd.h>
34 #include <grp.h>

36 #include <libmlrpc/libmlrpc.h>
37 #include <smbdrv/libmb.h>
37 #include <smbdrv/libmlrpc.h>
38 #include <smbdrv/libmlsvc.h>
39 #include <smbdrv/ndl/lsarpc.ndl>
40 #include <lsalib.h>
41 #include <smbdrv/smbinfo.h>
42 #include <smbdrv/nmpipes.h>
43 #include <smbdrv/ntlocale.h>

45 struct local_group_table {
46     WORD sid_name_use;
47     WORD domain_ix;
48     char *sid;
49     char *name;
50 };
_____unchanged_portion_omitted_____
```

new/usr/src/lib/smbdrv/libmlsvc/common/mlsvc\_client.c

1

```
*****
5816 Sun Mar 18 01:13:04 2018
new/usr/src/lib/smbdrv/libmlsvc/common/mlsvc_client.c
1575 untangle libmlrpc ... (smbdrv)
*****
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18 *
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20 */

22 /*
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24  * Copyright 2015 Nexenta Systems, Inc. All rights reserved.
25  */

27 /*
28  * Client NDR RPC interface.
29  */

31 #include <sys/types.h>
32 #include <sys/errno.h>
33 #include <sys/fcntl.h>
34 #include <time.h>
35 #include <strings.h>
36 #include <assert.h>
37 #include <errno.h>
38 #include <thread.h>
39 #include <syslog.h>
40 #include <synch.h>

42 #include <libmlrpc/libmlrpc.h>
43 #include <netsmb/smbfs_api.h>

45 #include <smbdrv/libmb.h>
44 #include <smbdrv/libmbns.h>
45 #include <smbdrv/libmlrpc.h>
46 #include <smbdrv/libmlsvc.h>
47 #include <smbdrv/ndl/srvsvc.ndl>
47 #include <libsmbdr.h>
48 #include <mlsvc.h>

51 /*
52  * This call must be made to initialize an RPC client structure and bind
53  * to the remote service before any RPCs can be exchanged with that service.
54  *
55  * The mlsvc_handle_t is a wrapper that is used to associate an RPC handle
56  * with the client context for an instance of the interface. The handle
57  * is zeroed to ensure that it doesn't look like a valid handle -
58  * handle content is provided by the remove service.
```

new/usr/src/lib/smbdrv/libmlsvc/common/mlsvc\_client.c

2

```
59 *
60 * The client points to this top-level handle so that we know when to
61 * unbind and teardown the connection. As each handle is initialized it
62 * will inherit a reference to the client context.
63 *
64 * Returns 0 or an NT_STATUS: (failed in...)
65 *
66 * Returns 0 or an NT_STATUS:
67 * NT_STATUS_BAD_NETWORK_PATH (get server addr)
68 * NT_STATUS_NETWORK_ACCESS_DENIED (connect, auth)
69 * NT_STATUS_BAD_NETWORK_NAME (tcon)
70 * RPC_NT_SERVER_TOO_BUSY (open pipe)
71 * RPC_NT_SERVER_UNAVAILABLE (open pipe)
72 * NT_STATUS_BAD_NETWORK_NAME (tcon, open)
73 * NT_STATUS_ACCESS_DENIED (open pipe)
74 * NT_STATUS_INVALID_PARAMETER (rpc bind)
75 *
76 * NT_STATUS_INTERNAL_ERROR (bad args etc)
77 * NT_STATUS_NO_MEMORY
78 */
79 DWORD
80 ndr_rpc_bind(mlsvc_handle_t *handle, char *server, char *domain,
81             char *username, const char *service)
82 {
83     struct smb_ctx *ctx = NULL;
84     ndr_client_t *clnt = NULL;
85     ndr_service_t *svc;
86     DWORD status;
87     int fd = -1;
88     int rc;

89     if (handle == NULL || server == NULL || server[0] == '\0' ||
90         domain == NULL || username == NULL)
91         return (NT_STATUS_INTERNAL_ERROR);

92     /* In case the service was not registered... */
93     if ((svc = ndr_svc_lookup_name(service)) == NULL)
94         return (NT_STATUS_INTERNAL_ERROR);

95     /*
96      * Some callers pass this when they want a NULL session.
97      * Todo: have callers pass an empty string for that.
98      */
99     if (strcmp(username, MLSVC_ANON_USER) == 0)
100         username = "";

101     /*
102      * Setup smbfs library handle, authenticate, connect to
103      * the IPC$ share. This will reuse an existing connection
104      * if the driver already has one for this combination of
105      * server, user, domain. It may return any of:
106      * NT_STATUS_BAD_NETWORK_PATH (get server addr)
107      * NT_STATUS_NETWORK_ACCESS_DENIED (connect, auth)
108      * NT_STATUS_BAD_NETWORK_NAME (tcon)
109      */
110     status = smbdr_ctx_new(&ctx, server, domain, username);
111     if (status != NT_STATUS_SUCCESS) {
112         syslog(LOG_ERR, "ndr_rpc_bind: smbdr_ctx_new"
113             "(Srv=%s Dom=%s User=%s), %s (0x%x)",
114             server, domain, username,
115             xlate_nt_status(status), status);
116         /* Tell the DC Locator this DC failed. */
117         smb_ddiscover_bad_dc(server);
118         goto errout;
119     }
120 }
```

```

115      /*
116      * If the error is one where changing to a new DC
117      * might help, try looking for a different DC.
122      * Open the named pipe.
118      */
119      switch (status) {
120      case NT_STATUS_BAD_NETWORK_PATH:
121      case NT_STATUS_BAD_NETWORK_NAME:
122          /* Look for a new DC */
123          smb_ddiscover_bad_dc(server);
124      fd = smb_fh_open(ctx, svc->endpoint, 0_RDWR);
125      if (fd < 0) {
126          rc = errno;
127          syslog(LOG_DEBUG, "ndr_rpc_bind: "
128              "smb_fh_open (%s) err=%d",
129              svc->endpoint, rc);
130          switch (rc) {
131          case EACCES:
132              status = NT_STATUS_ACCESS_DENIED;
133              break;
124          default:
135              status = NT_STATUS_BAD_NETWORK_NAME;
125          break;
126          }
127      return (status);
138      goto errout;
128      }

130      /*
131      * Setup the RPC client handle.
132      */
133      rc = mlrpc_clh_create(handle, ctx);
134      if (rc != 0) {
135          syslog(LOG_ERR, "ndr_rpc_bind: mlrpc_clh_create: rc=%d", rc);
136          smbrdr_ctx_free(ctx);
137          switch (rc) {
138          case ENOMEM:
139              return (NT_STATUS_NO_MEMORY);
140          case EINVAL:
141              return (NT_STATUS_INVALID_PARAMETER);
142          default:
143              return (NT_STATUS_INTERNAL_ERROR);
144          }
145      if ((clnt = malloc(sizeof (ndr_client_t))) == NULL) {
146          status = NT_STATUS_NO_MEMORY;
147          goto errout;
148      }
149      bzero(clnt, sizeof (ndr_client_t));

150      clnt->handle = &handle->handle;
151      clnt->xa_init = ndr_xa_init;
152      clnt->xa_exchange = ndr_xa_exchange;
153      clnt->xa_read = ndr_xa_read;
154      clnt->xa_preserve = ndr_xa_preserve;
155      clnt->xa_destruct = ndr_xa_destruct;
156      clnt->xa_release = ndr_xa_release;
157      clnt->xa_private = ctx;
158      clnt->xa_fd = fd;

160      ndr_svc_binding_pool_init(&clnt->binding_list,
161          clnt->binding_pool, NDR_N_BINDING_POOL);

163      if ((clnt->heap = ndr_heap_create()) == NULL) {
164          status = NT_STATUS_NO_MEMORY;
165          goto errout;
166      }
167      }

```

```

147      /*
148      * This does the pipe open and OtW RPC bind.
149      * Handles pipe open retries.
169      * Fill in the caller's handle.
150      */
151      status = mlrpc_clh_bind(handle, svc);
152      if (status != 0) {
153          syslog(LOG_DEBUG, "ndr_rpc_bind: "
154              "mlrpc_clh_bind, %s (0x%x)",
155              xlate_nt_status(status), status);
156          switch (status) {
157          case RPC_NT_SERVER_TOO_BUSY:
158              /* Look for a new DC */
159              smb_ddiscover_bad_dc(server);
171          bzero(&handle->handle, sizeof (ndr_hdid_t));
172          handle->clnt = clnt;

174          /*
175          * Do the OtW RPC bind.
176          */
177          rc = ndr_clnt_bind(clnt, service, &clnt->binding);
178          switch (rc) {
179          case NDR_DRC_FAULT_OUT_OF_MEMORY:
180              status = NT_STATUS_NO_MEMORY;
160          break;
182          case NDR_DRC_FAULT_API_SERVICE_INVALID: /* not registered */
183              status = NT_STATUS_INTERNAL_ERROR;
184              break;
161          default:
186              if (NDR_DRC_IS_FAULT(rc)) {
187                  status = NT_STATUS_INVALID_PARAMETER;
162          break;
163          }
164          ctx = mlrpc_clh_free(handle);
190          /* FALLTHROUGH */
191          case NDR_DRC_OK:
192              return (NT_STATUS_SUCCESS);
193          }

195          syslog(LOG_DEBUG, "ndr_rpc_bind: "
196              "ndr_clnt_bind, %s (0x%x)",
197              xlate_nt_status(status), status);

199      errout:
200          handle->clnt = NULL;
201          if (clnt != NULL) {
202              ndr_heap_destroy(clnt->heap);
203              free(clnt);
204          }
165          if (ctx != NULL) {
206              if (fd != -1)
207                  (void) smb_fh_close(fd);
166              smbrdr_ctx_free(ctx);
167          }
168      }

170      return (status);
171      }

173      /*
174      * Unbind and close the pipe to an RPC service
175      * and cleanup the smb ctx.
215      * Unbind and close the pipe to an RPC service.
176      *
177      * The heap may or may not be destroyed (see mlrpc_clh_free)
217      * If the heap has been preserved we need to go through an xa release.

```

```
218 * The heap is preserved during an RPC call because that's where data
219 * returned from the server is stored.
220 *
221 * Otherwise we destroy the heap directly.
178 */
179 void
180 ndr_rpc_unbind(mlsvc_handle_t *handle)
181 {
182     struct smb_ctx *ctx;
226     ndr_client_t *clnt = handle->clnt;
227     struct smb_ctx *ctx = clnt->xa_private;

184     ctx = mlrpc_clh_free(handle);
185     if (ctx != NULL)
186         smbrdr_ctx_free(ctx);
229     if (clnt->heap_preserved)
230         ndr_clnt_free_heap(clnt);
231     else
232         ndr_heap_destroy(clnt->heap);

234     (void) smb_fh_close(clnt->xa_fd);
235     smbrdr_ctx_free(ctx);
236     free(clnt);
188     bzero(handle, sizeof (mlsvc_handle_t));
189 }
    unchanged_portion_omitted_
```

new/usr/src/lib/smbsrv/libmlsvc/common/mlsvc\_util.c

1

\*\*\*\*\*

13043 Sun Mar 18 01:13:04 2018

new/usr/src/lib/smbsrv/libmlsvc/common/mlsvc\_util.c

1575 untangle libmlrpc ... (smbsrv)

\*\*\*\*\*

unchanged portion omitted

```
429 /*
430  * A few more helper functions for RPC services.
431 */

433 /*
434  * Check whether or not the specified user has administrator privileges,
435  * i.e. is a member of Domain Admins or Administrators.
436  * Returns true if the user is an administrator, otherwise returns false.
437 */
438 boolean_t
439 ndr_is_admin(ndr_xa_t *xa)
440 {
441     smb_netuserinfo_t *ctx = xa->pipe->np_user;

443     return (ctx->ui_flags & SMB_ATF_ADMIN);
444 }

446 /*
447  * Check whether or not the specified user has power-user privileges,
448  * i.e. is a member of Domain Admins, Administrators or Power Users.
449  * This is typically required for operations such as managing shares.
450  * Returns true if the user is a power user, otherwise returns false.
451 */
452 boolean_t
453 ndr_is_poweruser(ndr_xa_t *xa)
454 {
455     smb_netuserinfo_t *ctx = xa->pipe->np_user;

457     return ((ctx->ui_flags & SMB_ATF_ADMIN) ||
458            (ctx->ui_flags & SMB_ATF_POWERUSER));
459 }

461 int32_t
462 ndr_native_os(ndr_xa_t *xa)
463 {
464     smb_netuserinfo_t *ctx = xa->pipe->np_user;

466     return (ctx->ui_native_os);
467 }
```

new/usr/src/lib/smbdrv/libmlsvc/common/msgsvc\_svc.c

1

\*\*\*\*\*

2466 Sun Mar 18 01:13:04 2018

new/usr/src/lib/smbdrv/libmlsvc/common/msgsvc\_svc.c

1575 untangle libmlrpc .. (smbdrv)

\*\*\*\*\*

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22 /*
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24  * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
25  */

27 /*
28  * Message Service
29  */

31 #include <syslog.h>
32 #include <stdlib.h>

34 #include <libmlrpc/libmlrpc.h>
35 #include <smbdrv/libmb.h>
36 #include <smbdrv/libmlrpc.h>
37 #include <smbdrv/libmlsvc.h>
38 #include <smbdrv/ndl/msgsvc.ndl>
39 #include <smbdrv/smbinfo.h>
40 #include <smbdrv/nmpipes.h>

41 static int msgsvcsend_NetrSendMessage(void *, ndr_xa_t *);

43 static ndr_stub_table_t msgsvcsend_stub_table[] = {
44     { msgsvcsend_NetrSendMessage, MSGSVCSEND_OPNUM_NetrSendMessage },
45     { 0 }
46 };
47
48 unchanged_portion_omitted
```



new/usr/src/lib/smbstrv/libmlsvc/common/netr\_logon.c

1

```
*****
23250 Sun Mar 18 01:13:04 2018
new/usr/src/lib/smbstrv/libmlsvc/common/netr_logon.c
1575 untangle libmlrpc .. (smbstrv)
*****
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18 *
19 * CDDL HEADER END
20 */

22 /*
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24  * Copyright 2015 Nexenta Systems, Inc. All rights reserved.
25  */

27 /*
28  * NETR SamLogon and SamLogoff RPC client functions.
29  */

31 #include <stdio.h>
32 #include <strings.h>
33 #include <stdlib.h>
34 #include <time.h>
35 #include <alloca.h>
36 #include <unistd.h>
37 #include <netdb.h>
38 #include <thread.h>

40 #include <libmlrpc/libmlrpc.h>
41 #include <smbstrv/libmb.h>
42 #include <smbstrv/libmlrpc.h>
43 #include <smbstrv/libmlsvc.h>
44 #include <smbstrv/ndl/netlogon.ndl>
45 #include <smbstrv/netrauth.h>
46 #include <smbstrv/smbinfo.h>
47 #include <smbstrv/smb_token.h>
48 #include <mlsvc.h>

49 #define NETLOGON_ATTEMPTS 2

51 static uint32_t netlogon_logon(smb_logon_t *, smb_token_t *);
52 static uint32_t netr_server_samlogon(mlsvc_handle_t *, netr_info_t *, char *,
53     smb_logon_t *, smb_token_t *);
54 static void netr_invalidate_chain(void);
55 static void netr_interactive_samlogon(netr_info_t *, smb_logon_t *,
56     struct netr_logon_info1 *);
57 static void netr_network_samlogon(ndr_heap_t *, netr_info_t *,
58     smb_logon_t *, struct netr_logon_info2 *);
59 static void netr_setup_identity(ndr_heap_t *, smb_logon_t *,
60     netr_logon_id_t *);
```

new/usr/src/lib/smbstrv/libmlsvc/common/netr\_logon.c

2

```
61 static boolean_t netr_isadmin(struct netr_validation_info3 *);
62 static uint32_t netr_setup_domain_groups(struct netr_validation_info3 *,
63     smb_ids_t *);
64 static uint32_t netr_setup_token_info3(struct netr_validation_info3 *,
65     smb_token_t *);
66 static uint32_t netr_setup_token_wingrps(struct netr_validation_info3 *,
67     smb_token_t *);

69 /*
70  * Shared with netr_auth.c
71  */
72 extern netr_info_t netr_global_info;

74 static mutex_t netlogon_mutex;
75 static cond_t netlogon_cv;
76 static boolean_t netlogon_busy = B_FALSE;
77 static boolean_t netlogon_abort = B_FALSE;

79 /*
80  * Helper for Kerberos authentication
81  */
82 uint32_t
83 smb_decode_krb5_pac(smb_token_t *token, char *data, uint_t len)
84 {
85     struct krb5_validation_info info;
86     ndr_buf_t *nbuf;
87     uint32_t status = NT_STATUS_NO_MEMORY;
88     int rc;

90     bzero(&info, sizeof (info));

92     /* Need to keep this until we're done with &info */
93     nbuf = ndr_buf_init(&TYPEINFO(netr_interface));
94     if (nbuf == NULL)
95         goto out;

97     rc = ndr_buf_decode(nbuf, NDR_PTYPE_PAC,
98         NETR_OPNUM_decode_krb5_pac, data, len, &info);
99     if (rc != NDR_DRC_OK) {
100         status = RPC_NT_PROTOCOL_ERROR;
101         goto out;
102     }

104     status = netr_setup_token_info3(&info.info3, token);

106     /* Deal with the "resource groups"? */

109 out:
110     if (nbuf != NULL)
111         ndr_buf_fini(nbuf);

113     return (status);
114 }
unchanged_portion_omitted
```

```

*****
26509 Sun Mar 18 01:13:04 2018
new/usr/src/lib/smbdrv/libmlsvc/common/samr_clnt.c
1575 untangle libmlrpc ... (smbdrv)
*****
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20 */

22 /*
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24  * Copyright 2014 Nexenta Systems, Inc. All rights reserved.
25  */

27 /*
28  * Security Accounts Manager RPC (SAMR) client-side interface.
29  *
30  * The SAM is a hierarchical database:
31  * - If you want to talk to the SAM you need a SAM handle.
32  * - If you want to work with a domain, use the SAM handle.
33  *   to obtain a domain handle.
34  * - Use domain handles to obtain user handles etc.
35  *
36  * Be careful about returning null handles to the application. Use of a
37  * null handle may crash the domain controller if you attempt to use it.
38  */

40 #include <stdio.h>
41 #include <strings.h>
42 #include <stdlib.h>
43 #include <unistd.h>
44 #include <netdb.h>
45 #include <sys/param.h>

47 #include <libmlrpc/libmlrpc.h>
48 #include <smbdrv/libmb.h>
48 #include <smbdrv/libmlrpc.h>
49 #include <smbdrv/libmlsvc.h>
50 #include <smbdrv/smbinfo.h>
51 #include <smbdrv/ntaccess.h>
52 #include <smbdrv/smb_sid.h>
53 #include <samlib.h>

55 static DWORD samr_connect2(char *, char *, char *, DWORD, mlsvc_handle_t *);
56 static DWORD samr_connect4(char *, char *, char *, DWORD, mlsvc_handle_t *);
57 static DWORD samr_connect5(char *, char *, char *, DWORD, mlsvc_handle_t *);

59 typedef DWORD (*samr_connop_t)(char *, char *, char *, DWORD,
60     mlsvc_handle_t *);

```

```

62 static int samr_setup_user_info(WORD, struct samr_QueryUserInfo *,
63     union samr_user_info *);

65 /*
66  * samr_open
67  *
68  * Wrapper round samr_connect to ensure that we connect using the server
69  * and domain. We default to the resource domain if the caller doesn't
70  * supply a server name and a domain name.
71  *
72  * If username argument is NULL, an anonymous connection will be established.
73  * Otherwise, an authenticated connection will be established.
74  *
75  * On success 0 is returned. Otherwise a -ve error code.
76  */
77 DWORD
78 samr_open(char *server, char *domain, char *username, DWORD access_mask,
79     mlsvc_handle_t *samr_handle)
80 {
81     smb_domainex_t di;
82     DWORD status;

84     if (server == NULL || domain == NULL) {
85         if (!smb_domain_getinfo(&di))
86             return (NT_STATUS_INTERNAL_ERROR);
87         server = di.d_dci.dc_name;
88         domain = di.d_primary.di_nbname;
89     }

91     if (username == NULL)
92         username = MLSVC_ANON_USER;

94     status = samr_connect(server, domain, username, access_mask,
95         samr_handle);

97     return (status);
98 }
_____unchanged_portion_omitted_

```

new/usr/src/lib/smbdrv/libmlsvc/common/samr\_svc.c

1

\*\*\*\*\*

51366 Sun Mar 18 01:13:04 2018

new/usr/src/lib/smbdrv/libmlsvc/common/samr\_svc.c

1575 untangle libmlrpc .. (smbdrv)

\*\*\*\*\*

```
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19 * CDDL HEADER END
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22 /*
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24 * Copyright 2015 Nexenta Systems, Inc. All rights reserved.
25 */

27 /*
28 * Security Accounts Manager RPC (SAMR) server-side interface.
29 *
30 * The SAM is a hierarchical database:
31 * - If you want to talk to the SAM you need a SAM handle.
32 * - If you want to work with a domain, use the SAM handle.
33 *   to obtain a domain handle.
34 * - Use domain handles to obtain user handles etc.
35 */

37 #include <strings.h>
38 #include <unistd.h>
39 #include <netdb.h>
40 #include <assert.h>
41 #include <grp.h>
42 #include <libmlrpc/libmlrpc.h>
43 #include <smbdrv/libmb.h>
44 #include <smbdrv/libmlrpc.h>
45 #include <smbdrv/libmlsvc.h>
46 #include <smbdrv/smbinfo.h>
47 #include <smbdrv/nmpipes.h>
48 #include <smbdrv/ndl/samrpc.ndl>
49 #include <samlib.h>

50 /*
51 * The keys associated with the various handles dispensed by the SAMR
52 * server. These keys can be used to validate client activity.
53 * These values are never passed over the wire so security shouldn't
54 * be an issue.
55 */
56 typedef enum {
57     SAMR_KEY_NULL = 0,
58     SAMR_KEY_CONNECT,
59     SAMR_KEY_DOMAIN,
60     SAMR_KEY_USER,
```

new/usr/src/lib/smbdrv/libmlsvc/common/samr\_svc.c

2

```
61     SAMR_KEY_GROUP,
62     SAMR_KEY_ALIAS
63 } samr_key_t;
_____unchanged_portion_omitted_
```

new/usr/src/lib/smbdrv/libmlsvc/common/spoolss\_svc.c

1

```
*****
31151 Sun Mar 18 01:13:04 2018
new/usr/src/lib/smbdrv/libmlsvc/common/spoolss_svc.c
1575 untangle libmlrpc ... (smbdrv)
*****
```

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21 /*
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24 */

26 /*
27 * Printing and Spooling RPC service.
28 */
29 #include <sys/types.h>
30 #include <sys/stat.h>
31 #include <sys/utsname.h>
32 #include <sys/atomic.h>
33 #include <unistd.h>
34 #include <stdlib.h>
35 #include <strings.h>
36 #include <fcntl.h>
37 #include <errno.h>
38 #include <libmlrpc/libmlrpc.h>
39 #include <smbdrv/libmb.h>
40 #include <smbdrv/libmlrpc.h>
41 #include <smbdrv/libmlsvc.h>
42 #include <smbdrv/ndl/spoolss.ndl>
43 #include <smbdrv/ndl/winreg.ndl>
44 #include <smb/nterror.h>
45 #include <smbdrv/smbinfo.h>
46 #include <smbdrv/nmpipes.h>
47 #include <mlsvc.h>

49 #ifdef HAVE_CUPS

51 #define SPOOLSS_PRINTER      "Postscript"

53 typedef struct smb_spool {
54     list_t      sp_list;
55     int         sp_cnt;
56     rwlock_t   sp_rwl;
57     int         sp_initialized;
58 } smb_spool_t;
unchanged_portion_omitted
```

```

*****
30062 Sun Mar 18 01:13:04 2018
new/usr/src/lib/smb/rv/lib/smb/common/lib/smb.h
1575 untangle libmlrpc .. (smb/rv)
*****
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19 * CDDL HEADER END
20 */

22 /*
23  * Copyright (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
24  * Copyright 2015 Nexenta Systems, Inc. All rights reserved.
25  */

27 #ifndef _LIBSMB_H
28 #define _LIBSMB_H

30 #ifdef __cplusplus
31 extern "C" {
32 #endif

34 #include <sys/types.h>
35 #include <sys/list.h>
36 #include <sys/avl.h>
37 #include <arpa/inet.h>
38 #include <net/if.h> /* LIFNAMSIZ */
39 #include <netdb.h>
40 #include <stdlib.h>
41 #include <libscf.h>
42 #include <libshare.h>
43 #include <uuid/uuid.h>
44 #include <synch.h>
45 #include <stdarg.h>

47 #include <smb/nterror.h>
48 #include <smb/ntstatus.h>
49 #include <smb/wintypes.h>

51 #include <smb/rv/string.h>
52 #include <smb/rv/smb_idmap.h>
53 #include <smb/rv/netbios.h>
54 #include <smb/rv/smb_share.h>
51 #include <smb/nterror.h>
52 #include <smb/ntstatus.h>
55 #include <smb/rv/smb_door.h>
56 #include <smb/rv/alloc.h>
57 #include <smb/rv/hash_table.h>
58 #include <smb/rv/msgbuf.h>
57 #include <smb/rv/wintypes.h>

```

```

59 #include <smb/rv/smb_xdr.h>
60 #include <smb/rv/smbinfo.h>
61 #include <smb/rv/ntifs.h>

63 #define SMB_VARSMB_DIR "/var/smb"
64 #define SMB_VARRUN_DIR "/var/run/smb"
65 #define SMB_CCACHE_FILE "ccache"
66 #define SMB_CCACHE_PATH SMB_VARRUN_DIR "/" SMB_CCACHE_FILE

69 /* Max value length of all SMB properties */
70 #define MAX_VALUE_BUFLen 512

72 #define SMBD_FMRI_PREFIX "network/smb/server"
73 #define SMBD_DEFAULT_INSTANCE_FMRI "svc:/network/smb/server:default"
74 #define SMBD_PG_NAME "smbd"
75 #define SMBD_PROTECTED_PG_NAME "read"
76 #define SMBD_EXEC_PG_NAME "exec"

78 #define SMBD_SMF_OK 0
79 #define SMBD_SMF_NO_MEMORY 1 /* no memory for data structures */
80 #define SMBD_SMF_SYSTEM_ERR 2 /* system error, use errno */
81 #define SMBD_SMF_NO_PERMISSION 3 /* no permission for operation */
82 #define SMBD_SMF_INVALID_ARG 4

84 #define SCH_STATE_UNINIT 0
85 #define SCH_STATE_INITIALIZING 1
86 #define SCH_STATE_INIT 2

88 typedef struct smb_scfhandle {
89     scf_handle_t *scf_handle;
90     int scf_state;
91     scf_service_t *scf_service;
92     scf_scope_t *scf_scope;
93     scf_transaction_t *scf_trans;
94     scf_transaction_entry_t *scf_entry;
95     scf_propertygroup_t *scf_pg;
96     scf_instance_t *scf_instance;
97     scf_iter_t *scf_inst_iter;
98     scf_iter_t *scf_pg_iter;
99 } smb_scfhandle_t;
    unchanged portion omitted

```

new/usr/src/lib/smb/rv/lib/smb/common/smb\_doorclnt.c

1

```
*****
12116 Sun Mar 18 01:13:05 2018
new/usr/src/lib/smb/rv/lib/smb/common/smb_doorclnt.c
1575 untangle libmlrpc ... (smb/rv)
*****
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24 */

26 #include <assert.h>
27 #include <syslog.h>
28 #include <door.h>
29 #include <fcntl.h>
30 #include <string.h>
31 #include <strings.h>
32 #include <stdlib.h>
33 #include <unistd.h>
34 #include <errno.h>
35 #include <sys/mman.h>
36 #include <smb/wintypes.h>
37 #include <smb/rv/lib/smb.h>
38 #include <smb/rv/wintypes.h>
39 #include <smb/rv/smb_door.h>

40 static int smb_door_call(uint32_t, void *, xdrproc_t, void *, xdrproc_t);
41 static int smb_door_call_private(int, smb_doorarg_t *);
42 static int smb_door_encode(smb_doorarg_t *, uint32_t);
43 static int smb_door_decode(smb_doorarg_t *);
44 static void smb_door_sethdr(smb_doorhdr_t *, uint32_t, uint32_t);
45 static boolean_t smb_door_chkhdr(smb_doorarg_t *, smb_doorhdr_t *);
46 static void smb_door_free(door_arg_t *arg);

48 /*
49  * Given a SID, make a door call to get the associated name.
50  *
51  * Returns 0 if the door call is successful, otherwise -1.
52  *
53  * If 0 is returned, the lookup result will be available in a_status.
54  * NT_STATUS_SUCCESS The SID was mapped to a name.
55  * NT_STATUS_NONE_MAPPED The SID could not be mapped to a name.
56  */
57 int
58 smb_lookup_sid(const char *sid, lsa_account_t *acct)
59 {
60     int rc;
```

new/usr/src/lib/smb/rv/lib/smb/common/smb\_doorclnt.c

2

```
62     assert((sid != NULL) && (acct != NULL));

64     bzero(acct, sizeof (lsa_account_t));
65     (void) strncpy(acct->a_sid, sid, SMB_SID_STRSZ);

67     rc = smb_door_call(SMB_DR_LOOKUP_SID, acct, lsa_account_xdr,
68                       acct, lsa_account_xdr);

70     if (rc != 0)
71         syslog(LOG_DEBUG, "smb_lookup_sid: %m");
72     return (rc);
73 }
unchanged_portion_omitted
```

```
new/usr/src/tools/quick/make-smbsrv
```

1

```
*****  
7631 Sun Mar 18 01:13:05 2018  
new/usr/src/tools/quick/make-smbsrv  
1575 untangle libmlrpc .. (smbsrv)  
*****  
_____unchanged_portion_omitted_____
```

```
274 #####  
275 # This creates a tarfile one can use to update a test machine.
```

```
277 do_tar() {  
278     git_rev='git rev-parse --short=8 HEAD'  
279     files="  
280 lib/svc/manifest/network/smb/server.xml  
281 usr/kernel/drv/$arch64/smbsrv  
282 usr/kernel/kmdb/$arch64/smbsrv  
283 usr/lib/fs/smb/$arch64/libshare_smb.so.1  
284 usr/lib/fs/smb/libshare_smb.so.1  
285 usr/lib/libsmvfs.so.1  
286 usr/lib/mdb/kvm/$arch64/smbsrv.so  
287 usr/lib/reparse/libreparse_smb.so.1  
288 usr/lib/security/pam_smb_passwd.so.1  
289 usr/lib/smbsrv/dtrace  
290 usr/lib/libmlrpc.so.1  
290 usr/lib/smbsrv/libmlrpc.so.1  
291 usr/lib/smbsrv/libmlsvc.so.1  
292 usr/lib/smbsrv/libsmns.so.1  
293 usr/lib/smbsrv/libsmns.so.1  
294 usr/lib/smbsrv/smbd  
295 usr/sbin/devfsadm  
296 usr/sbin/smbadm  
297 usr/sbin/smbstat  
298 "  
  
300     (cd $ROOT && tar cfj ../../smbsrv-${git_rev}.tar.bz2 $files)  
301 }  
_____unchanged_portion_omitted_____
```

```

*****
2118 Sun Mar 18 01:13:05 2018
new/usr/src/uts/common/smbsrv/Makefile
1575 untangle libmlrpc ... (smbsrv)
*****
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20 #
21 #
22 # Copyright (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
23 # Copyright 2015 Nexenta Systems, Inc. All rights reserved.
24 #

26 include ../../../../Makefile.master

28 HDRS=   alloc.h           \
29         cp_unicode.h      \
30         cp_usascii.h      \
31         hash_table.h      \
32         mac_cifs.h        \
33         mailslot.h        \
34         mbuf.h            \
35         msgbuf.h          \
36         ndr.h              \
36         netbios.h         \
37         netrauth.h         \
38         nmpipes.h         \
39         ntaccess.h        \
40         ntifs.h           \
41         ntlocale.h        \
42         smb_sid.h         \
43         smb.h             \
44         smb_door.h        \
45         smb_dfs.h         \
46         smb_fsops.h       \
47         smb_idmap.h       \
48         smb_inet.h        \
49         smb_ioctl.h       \
50         smb_kproto.h      \
51         smb_kstat.h       \
52         smb_ktypes.h      \
53         smb_privilege.h   \
54         smb_share.h       \
55         smb_signing.h     \
56         smb_token.h       \
57         smb_vops.h        \
58         smb_xdr.h         \
59         smbinfo.h         \
60         smb2.h            \

```

```

61         smb2_kproto.h     \
62         string.h          \
63         svrapi.h          \
64         winioctl.h       \
65         winsvc.h          \
66         winsvc.h          \
67         wintypes.h       \

67 NDLHDRS= dssetup.ndl     \
68           eventlog.ndl   \
69           llsrc.ndl      \
70           lsarpc.ndl     \
71           msgsvc.ndl     \
74           ndrtypes.ndl   \
72           netdfs.ndl     \
73           netlogon.ndl   \
77           rpcpdu.ndl    \
74           samrpc.ndl     \
75           security.ndl   \
76           spoolss.ndl    \
77           srvsvc.ndl     \
78           svcctl.ndl     \
79           winreg.ndl     \

81 ROOTDIR= $(ROOT)/usr/include/smbsrv
82 NDLDIR= $(ROOTDIR)/ndl
83 ROOTHDRS= $(HDRS:%=$(ROOTDIR)/%) $(NDLHDRS:%=$(ROOTDIR)/ndl/%)
84 CHECKHDRS= $(HDRS:%.h=%.check)

86 $(ROOTDIR)/%: %
87     $(INS.file)

89 $(NDLDIR)/%: ndl/%
90     $(INS.file)

92 $(ROOTDIR) $(NDLDIR):
93     $(INS.dir)

95 .KEEP_STATE:

97 .PARALLEL: $(CHECKHDRS)

99 install_h: $(ROOTDIR) $(NDLDIR) $(ROOTHDRS)

101 check: $(CHECKHDRS)

```



new/usr/src/uts/common/smbdrv/nd1/dssetup.nd1

1

```
*****
4604 Sun Mar 18 01:13:05 2018
new/usr/src/uts/common/smbdrv/nd1/dssetup.nd1
1575 untangle libmlrpc .. (smbdrv)
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25 * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
26 */

28 #ifndef _DSSETUP_NDL_
29 #define _DSSETUP_NDL_

31 /*
32  * Active Directory Service Setup
33  *
34  * Originally this interface contained a number of operations, as listed
35  * below, but due to a buffer overflow security issue, all operations
36  * except DsRoleGetPrimaryDomainInfo have been deprecated (MS04-011).
37  */

39 #include <libmlrpc/ndrtypes.nd1>
37 #include "ndrtypes.nd1"

42 #define DSSETUP_OPNUM_DsRoleGetPrimaryDomainInfo 0x00
43 #define DSSETUP_OPNUM_DsRoleDnsNameToFlatName 0x01
44 #define DSSETUP_OPNUM_DsRoleDcAsDc 0x02
45 #define DSSETUP_OPNUM_DsRoleDcAsReplica 0x03
46 #define DSSETUP_OPNUM_DsRoleDemoteDc 0x04
47 #define DSSETUP_OPNUM_DsRoleGetDcOperationProgress 0x05
48 #define DSSETUP_OPNUM_DsRoleGetDcOperationResults 0x06
49 #define DSSETUP_OPNUM_DsRoleCancel 0x07
50 #define DSSETUP_OPNUM_DsRoleServerSaveStateForUpgrade 0x08
51 #define DSSETUP_OPNUM_DsRoleUpgradeDownlevelServer 0x09
52 #define DSSETUP_OPNUM_DsRoleAbortDownlevelServerUpgrade 0x0a

54 /*
55  * DS roles
56  */
57 #define DS_ROLE_STANDALONE_WORKSTATION 0
58 #define DS_ROLE_MEMBER_WORKSTATION 1
59 #define DS_ROLE_STANDALONE_SERVER 2
60 #define DS_ROLE_MEMBER_SERVER 3
```

new/usr/src/uts/common/smbdrv/nd1/dssetup.nd1

2

```
61 #define DS_ROLE_BACKUP_DC 4
62 #define DS_ROLE_PRIMARY_DC 5

64 /*
65  * DS role flags
66  */
67 #define DS_ROLE_PRIMARY_DS_RUNNING 0x00000001
68 #define DS_ROLE_PRIMARY_DS_MIXED_MODE 0x00000002
69 #define DS_ROLE_UPGRADE_IN_PROGRESS 0x00000004
70 #define DS_ROLE_PRIMARY_DOMAIN_GUID_PRESENT 0x01000000

72 /*
73  * DS role upgrade
74  */
75 #define DS_ROLE_NOT_UPGRADING 0
76 #define DS_ROLE_UPGRADING 1

78 /*
79  * DS role previous
80  */
81 #define DS_ROLE_PREVIOUS_UNKNOWN 0
82 #define DS_ROLE_PREVIOUS_PRIMARY 1
83 #define DS_ROLE_PREVIOUS_BACKUP 2

85 /*
86  * DS role state
87  */
88 #define DS_ROLE_OP_IDLE 0
89 #define DS_ROLE_OP_ACTIVE 1
90 #define DS_ROLE_OP_NEEDS_REBOOT 2

92 /*
93  * DS role information levels
94  */
95 #define DS_ROLE_BASIC_INFORMATION 1
96 #define DS_ROLE_UPGRADE_STATUS 2
97 #define DS_ROLE_OP_STATUS 3

99 struct dssetup_uid {
100     DWORD    data1;
101     WORD     data2;
102     WORD     data3;
103     BYTE     data4[8];
104 };
_____unchanged_portion_omitted_____
```

new/usr/src/uts/common/smbstrv/ndl/eventlog.ndl

1

\*\*\*\*\*

4589 Sun Mar 18 01:13:05 2018

new/usr/src/uts/common/smbstrv/ndl/eventlog.ndl

1575 untangle libmlrpc .. (smbstrv)

\*\*\*\*\*

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28 #ifndef _MLSVC_LOGR_NDL_
29 #define _MLSVC_LOGR_NDL_

31 /*
32 *****
33 *
34 * Event log RPC (EVENTLOG) interface definition.
35 *
36 *****
37 */

39 #include <libmlrpc/ndrtypes.ndl>
37 #include "ndrtypes.ndl"

41 #define LOGR_OPNUM_EventLogClose          0x02
42 #define LOGR_OPNUM_EventLogQueryCount    0x04
43 #define LOGR_OPNUM_EventLogGetOldestRec  0x05
44 #define LOGR_OPNUM_EventLogOpen         0x07
45 #define LOGR_OPNUM_EventLogRead         0x0A

47 #define LOGR_MAXENTRYLEN                800

50 CONTEXT_HANDLE(logr_handle) logr_handle_t;

52 struct logr_string {
53     WORD    length;
54     WORD    allosize;
55     LPTSTR  str;
56 };
_____unchanged_portion_omitted_
```

new/usr/src/uts/common/smbdrv/ndl/llsrpc.ndl

1

```
*****
2561 Sun Mar 18 01:13:05 2018
new/usr/src/uts/common/smbdrv/ndl/llsrpc.ndl
1575 untangle libmlrpc .. (smbdrv)
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26 */

28 #ifndef _MLSVC_LLSR_NDL_
29 #define _MLSVC_LLSR_NDL_

31 /*
32  * LLSRPC interface.
33  *
34  *      0x50      takes the 3a handle + DWORD, returns 2 DWORDS
35  *      0x3c
36  *      0x3f      list of services?
37  *      0x3d      unknown
38  *      0x3e      unknown
39  *      0x4f
40  *      0x4d
41  *      0x4e
42  *      0x01      closes the handle obtained via 0x00
43  *      0x3b      closes the handle obtained via 0x3a
44  */

46 #include <libmlrpc/ndrtypes.ndl>
44 #include "ndrtypes.ndl"

48 #define LLSR_OPNUM_Open          0x00
49 #define LLSR_OPNUM_Close        0x01
50 #define LLSR_OPNUM_Connect      0x3a
51 #define LLSR_OPNUM_Disconnect   0x3b
52 #define LLSR_OPNUM_Unknown3c    0x3c
53 #define LLSR_OPNUM_Unknown3d    0x3d
54 #define LLSR_OPNUM_Unknown3e    0x3e
55 #define LLSR_OPNUM_Unknown3f    0x3f
56 #define LLSR_OPNUM_Unknown4d    0x4d
57 #define LLSR_OPNUM_Unknown4e    0x4e
58 #define LLSR_OPNUM_Unknown4f    0x4f
59 #define LLSR_OPNUM_Unknown50    0x50
```

new/usr/src/uts/common/smbdrv/ndl/llsrpc.ndl

2

```
62 CONTEXT_HANDLE(llsr_handle) llsr_handle_t;

65 OPERATION(LLSR_OPNUM_Open)
66 struct llsr_Open {
67     IN      LPTSTR hostname;
68     OUT     llsr_handle_t open_handle;
69     OUT     DWORD status;
70 };
    unchanged_portion_omitted
```

```

*****
30141 Sun Mar 18 01:13:05 2018
new/usr/src/uts/common/smbdrv/ndl/lsarpc.ndl
1575 untangle libmlrpc ... (smbdrv)
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21 /*
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24 */

26 #ifndef _MLSVC_LSA_NDL_
27 #define _MLSVC_LSA_NDL_

29 /*
30  * Local Security Authority RPC (LSARPC) interface definition.
31  *
32  * Names containing a backslash ('\') are known as qualified or composite
33  * names. The string preceding the backslash is assumed to be the domain
34  * name and the string following the slash is assumed to be name to be
35  * resolved within that domain.
36  *
37  * Names that do not contain a backslash are known as isolated names.
38  * An isolated name may be a single label, such as john, or may be in
39  * user principal name (UPN) form, such as john@example.com.
40  */

42 #include <libmlrpc/ndrtypes.ndl>
41 #include "ndrtypes.ndl"

45 #define LSARPC_OPNUM_CloseHandle 0x00
46 #define LSARPC_OPNUM_Delete 0x01
47 #define LSARPC_OPNUM_EnumPrivileges 0x02
48 #define LSARPC_OPNUM_QuerySecurityObject 0x03
49 #define LSARPC_OPNUM_SetSecurityObject 0x04
50 #define LSARPC_OPNUM_ChangePassword 0x05
51 #define LSARPC_OPNUM_OpenPolicy 0x06
52 #define LSARPC_OPNUM_QueryInfoPolicy 0x07
53 #define LSARPC_OPNUM_SetInfoPolicy 0x08
54 #define LSARPC_OPNUM_ClearAuditLog 0x09
55 #define LSARPC_OPNUM_CreateAccount 0x0a
56 #define LSARPC_OPNUM_EnumerateAccounts 0x0b
57 #define LSARPC_OPNUM_CreateTrustedDomain 0x0c
58 #define LSARPC_OPNUM_EnumTrustedDomain 0x0d
59 #define LSARPC_OPNUM_LookupNames 0x0e
60 #define LSARPC_OPNUM_LookupSids 0x0f

```

```

61 #define LSARPC_OPNUM_CreateSecret 0x10
62 #define LSARPC_OPNUM_OpenAccount 0x11
63 #define LSARPC_OPNUM_EnumPrivsAccount 0x12
64 #define LSARPC_OPNUM_AddAccountPrivs 0x13
65 #define LSARPC_OPNUM_RemoveAccountPrivs 0x14
66 #define LSARPC_OPNUM_GetAccountQuota 0x15
67 #define LSARPC_OPNUM_SetAccountQuota 0x16
68 #define LSARPC_OPNUM_GetSystemAccessAccount 0x17
69 #define LSARPC_OPNUM_SetSystemAccessAccount 0x18
70 #define LSARPC_OPNUM_OpenTrustedDomain 0x19
71 #define LSARPC_OPNUM_QueryInfoTrustedDomain 0x1a
72 #define LSARPC_OPNUM_SetInfoTrustedDomain 0x1b
73 #define LSARPC_OPNUM_OpenSecret 0x1c
74 #define LSARPC_OPNUM_SetSecret 0x1d
75 #define LSARPC_OPNUM_QuerySecret 0x1e
76 #define LSARPC_OPNUM_LookupPrivValue 0x1f
77 #define LSARPC_OPNUM_LookupPrivName 0x20
78 #define LSARPC_OPNUM_LookupPrivDisplayName 0x21
79 #define LSARPC_OPNUM_DeleteObject 0x22
80 #define LSARPC_OPNUM_EnumAccountsWithUserRight 0x23
81 #define LSARPC_OPNUM_EnumAccountRights 0x24
82 #define LSARPC_OPNUM_AddAccountRights 0x25
83 #define LSARPC_OPNUM_RemoveAccountRights 0x26
84 #define LSARPC_OPNUM_QueryTrustedDomainInfo 0x27
85 #define LSARPC_OPNUM_SetTrustedDomainInfo 0x28

87 /* Windows 2000 */
88 #define LSARPC_OPNUM_DeleteTrustedDomain 0x29
89 #define LSARPC_OPNUM_StorePrivateData 0x2a
90 #define LSARPC_OPNUM_RetrievePrivateData 0x2b
91 #define LSARPC_OPNUM_OpenPolicy2 0x2c
92 #define LSARPC_OPNUM_GetConnectedUser 0x2d
93 #define LSARPC_OPNUM_QueryInfoPolicy2 0x2e
94 #define LSARPC_OPNUM_SetInfoPolicy2 0x2f
95 #define LSARPC_OPNUM_QueryTrustedDomainInfoByName 0x30
96 #define LSARPC_OPNUM_SetTrustedDomainInfoByName 0x31
97 #define LSARPC_OPNUM_EnumTrustedDomainsEx 0x32
98 #define LSARPC_OPNUM_CreateTrustedDomainEx 0x33
99 #define LSARPC_OPNUM_CloseTrustedDomainEx 0x34
100 #define LSARPC_OPNUM_QueryDomainInfoPolicy 0x35
101 #define LSARPC_OPNUM_SetDomainInfoPolicy 0x36
102 #define LSARPC_OPNUM_OpenTrustedDomainByName 0x37
103 #define LSARPC_OPNUM_TestCall 0x38
104 #define LSARPC_OPNUM_LookupSids2 0x39
105 #define LSARPC_OPNUM_LookupNames2 0x3a
106 #define LSARPC_OPNUM_CreateTrustedDomainEx2 0x3b

108 /* Windows 2000 SP3 */
109 #define LSARPC_OPNUM_CredWrite 0x3c
110 #define LSARPC_OPNUM_CredRead 0x3d
111 #define LSARPC_OPNUM_CredEnumerate 0x3e
112 #define LSARPC_OPNUM_CredWriteDomainCreds 0x3f
113 #define LSARPC_OPNUM_CredReadDomainCreds 0x40
114 #define LSARPC_OPNUM_CredDelete 0x41
115 #define LSARPC_OPNUM_CredGetTargetInfo 0x42
116 #define LSARPC_OPNUM_CredProfileLoaded 0x43
117 #define LSARPC_OPNUM_LookupNames3 0x44
118 #define LSARPC_OPNUM_CredGetSessionTypes 0x45
119 #define LSARPC_OPNUM_RegisterAuditEvent 0x46
120 #define LSARPC_OPNUM_GenAuditEvent 0x47
121 #define LSARPC_OPNUM_UnregisterAuditEvent 0x48
122 #define LSARPC_OPNUM_QueryForestTrustInfo 0x49
123 #define LSARPC_OPNUM_SetForestTrustInfo 0x4a
124 #define LSARPC_OPNUM_CredRename 0x4b
125 #define LSARPC_OPNUM_LookupSids3 0x4c
126 #define LSARPC_OPNUM_LookupNames4 0x4d

```

```

127 #define LSARPC_OPNUM_OpenPolicySce          0x4e

129 /* Windows Server 2003 */
130 #define LSARPC_OPNUM_AdtRegisterSecurityEventSource 0x4f
131 #define LSARPC_OPNUM_AdtUnregisterSecurityEventSource 0x50
132 #define LSARPC_OPNUM_AdtReportSecurityEvent 0x51

134 /* Windows Vista */
135 #define LSARPC_OPNUM_CredFindBestCredential 0x52
136 #define LSARPC_OPNUM_SetAuditPolicy 0x53
137 #define LSARPC_OPNUM_QueryAuditPolicy 0x54
138 #define LSARPC_OPNUM_EnumerateAuditPolicy 0x55
139 #define LSARPC_OPNUM_EnumerateAuditCategories 0x56
140 #define LSARPC_OPNUM_EnumerateAuditSubCategories 0x57
141 #define LSARPC_OPNUM_LookupAuditCategoryName 0x58
142 #define LSARPC_OPNUM_LookupAuditSubCategoryName 0x59
143 #define LSARPC_OPNUM_SetAuditSecurity 0x5a
144 #define LSARPC_OPNUM_QueryAuditSecurity 0x5b
145 #define LSARPC_OPNUM_CredReadByTokenHandle 0x5c
146 #define LSARPC_OPNUM_CredRestoreCredentials 0x5d
147 #define LSARPC_OPNUM_CredBackupCredentials 0x5e

149 /*
150 * Lookup levels. Level 1 appears to mean only look on the local host and
151 * level 2 means forward the request to the PDC. On the PDC it probably
152 * doesn't matter which level you use but on a BDC a level 1 lookup will
153 * fail if the BDC doesn't have the info whereas a level 2 lookup will also
154 * check with the PDC.
155 */
156 #define LSA_LOOKUP_WKSTA 1 /* Windows NT 3.1 */
157 #define LSA_LOOKUP_PDC 2
158 #define LSA_LOOKUP_TDL 3
159 #define LSA_LOOKUP_GC 4 /* Windows 2000 */
160 #define LSA_LOOKUP_XFORESTREFERRAL 5 /* Windows XP */
161 #define LSA_LOOKUP_XFORESTRESOLVE 6
162 #define LSA_LOOKUP_RODCREFERRALTOFULLDC 7 /* Windows Vista */

164 /*
165 * Name/SID lookup flags
166 */
167 #define LSA_LOOKUP_NAME_NOT_SPN 0x00000001
168 #define LSA_LOOKUP_NAME_MAYBE_XFOREST 0x00000002
169 #define LSA_LOOKUP_NAME_IN_DBVIEW 0x00000004

171 /*
172 * Name/SID lookup options
173 *
174 * 0x00000000 Lookup isolated names both locally and in domains/forests.
175 * 0x80000000 Lookup isolated names (except for UPNs) only in the local
176 * account database. Do not lookup UPNs.
177 */
178 #define LSA_LOOKUP_OPT_ALL 0x00000000
179 #define LSA_LOOKUP_OPT_LOCAL 0x80000000

181 /*
182 * Client revision
183 *
184 * 0x00000001 Client does not understand DNS names or forests.
185 * 0x00000002 Client understands DNS names and forests.
186 *
187 * Notes:
188 * 0 means the same as 1
189 * Anything greater than 2 means the same as 2
190 */
191 #define LSA_CLIENT_REVISION_NT 0x00000001
192 #define LSA_CLIENT_REVISION_AD 0x00000002

```

```

194 /*
195 * Definition for a SID. The ndl compiler won't allow a typedef of
196 * a structure containing variable size members.
197 */
198 struct mlsa_sid {
199     BYTE Revision;
200     BYTE SubAuthCount;
201     BYTE Authority[6];
202     SIZE_IS(SubAuthCount)
203     DWORD SubAuthority[ANY_SIZE_ARRAY];
204 };

```

unchanged\_portion\_omitted

new/usr/src/uts/common/smbdrv/ndl/msgsvc.ndl

1

\*\*\*\*\*

1962 Sun Mar 18 01:13:05 2018

new/usr/src/uts/common/smbdrv/ndl/msgsvc.ndl

1575 untangle libmlrpc .. (smbdrv)

\*\*\*\*\*

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26 */

28 #ifndef _MSGVC_NDL_
29 #define _MSGVC_NDL_

31 /*
32  * Message Service
33 */

35 #include <libmlrpc/ndrtypes.ndl>
33 #include "ndrtypes.ndl"

37 #define MSGVCSEND_OPNUM_NetrSendMessage      0x00

39 struct msgsvc_uid {
40     DWORD    data1;
41     WORD     data2;
42     WORD     data3;
43     BYTE     data4[8];
44 };
_____unchanged_portion_omitted_
```

new/usr/src/uts/common/smbdrv/ndl/netdfs.ndl

1

```
*****
12452 Sun Mar 18 01:13:06 2018
new/usr/src/uts/common/smbdrv/ndl/netdfs.ndl
1575 untangle libmlrpc .. (smbdrv)
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26 */

28 #ifndef _NETDFS_NDL_
29 #define _NETDFS_NDL_

31 /*
32  * NT Distributed File Service (NETDFS) RPC interface definition.
33  */

35 #include <libmlrpc/ndrtypes.ndl>
33 #include "ndrtypes.ndl"

38 #define NETDFS_ABSTRACT_UUID          "4fc742e0-4a10-11cf-8273-00aa004ae673"
39 #define NETDFS_ABSTRACT_VERS          3

41 #define NETDFS_TRANSFER_UUID          "8a885d04-1ceb-11c9-9fe8-08002b104860"
42 #define NETDFS_TRANSFER_VERS          2

44 #define NETDFS_OPNUM_GETVER            0x00
45 #define NETDFS_OPNUM_ADD               0x01
46 #define NETDFS_OPNUM_REMOVE           0x02
47 #define NETDFS_OPNUM_SETINFO           0x03
48 #define NETDFS_OPNUM_GETINFO           0x04
49 #define NETDFS_OPNUM_ENUM              0x05
50 #define NETDFS_OPNUM_MOVE              0x06
51 #define NETDFS_OPNUM_RENAME            0x07
52 #define NETDFS_OPNUM_ADDSTDROOT        0x0c
53 #define NETDFS_OPNUM_REMSTDROOT        0x0d
54 #define NETDFS_OPNUM_ENUMEX            0x15

56 #define DFS_MANAGER_VERSION_NT4        0x01
57 #define DFS_MANAGER_VERSION_W2K        0x02
58 #define DFS_MANAGER_VERSION_W2K3      0x04

60 struct netdfs_uid {
```

new/usr/src/uts/common/smbdrv/ndl/netdfs.ndl

2

```
61     DWORD data1;
62     WORD data2;
63     WORD data3;
64     BYTE data4[8];
65 };
_____ unchanged_portion_omitted_____
```

new/usr/src/uts/common/smbdrv/nd1/netlogon.nd1

1

```
*****
11376 Sun Mar 18 01:13:06 2018
new/usr/src/uts/common/smbdrv/nd1/netlogon.nd1
1575 untangle libmlrpc ... (smbdrv)
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25 * Copyright 2014 Nexenta Systems, Inc. All rights reserved.
26 */

28 #ifndef _MLSVC_NETR_NDL_
29 #define _MLSVC_NETR_NDL_

31 /*
32 *****
33 *
34 * NetLogon RPC (NETR) interface definition.
35 *
36 *****
37 */

39 #include <libmlrpc/ndrtypes.nd1>
39 #include "ndrtypes.nd1"

42 #define NETR_OPNUM_UasLogon 0x00
43 #define NETR_OPNUM_UasLogoff 0x01
44 #define NETR_OPNUM_SamLogon 0x02
45 #define NETR_OPNUM_SamLogoff 0x03
46 #define NETR_OPNUM_ServerReqChallenge 0x04
47 #define NETR_OPNUM_ServerAuthenticate 0x05
48 #define NETR_OPNUM_ServerPasswordSet 0x06
49 #define NETR_OPNUM_DatabaseDeltas 0x07
50 #define NETR_OPNUM_DatabaseSync 0x08
51 #define NETR_OPNUM_AccountDeltas 0x09
52 #define NETR_OPNUM_AccountSync 0x0a
53 #define NETR_OPNUM_GetDCName 0x0b
54 #define NETR_OPNUM_LogonControl 0x0c
55 #define NETR_OPNUM_GetAnyDCName 0x0d
56 #define NETR_OPNUM_LogonControl2 0x0e
57 #define NETR_OPNUM_ServerAuthenticate2 0x0f
58 #define NETR_OPNUM_DatabaseSync2 0x10
59 #define NETR_OPNUM_DatabaseRedo 0x11
60 #define NETR_OPNUM_LogonControl2Ex 0x12
```

new/usr/src/uts/common/smbdrv/nd1/netlogon.nd1

2

```
61 #define NETR_OPNUM_TrustDomainList 0x13
62 #define NETR_OPNUM_DsrGetDcName 0x14
63 #define NETR_OPNUM_LogonGetCapabilities 0x15
64 #define NETR_OPNUM_LogonSetServiceBits 0x16
65 #define NETR_OPNUM_LogonGetTrustRid 0x17
66 #define NETR_OPNUM_LogonComputeServerDigest 0x18
67 #define NETR_OPNUM_LogonComputeClientDigest 0x19
68 #define NETR_OPNUM_ServerAuthenticate3 0x1a
69 #define NETR_OPNUM_DsrGetDcNameEx 0x1b
70 #define NETR_OPNUM_DsrGetSiteName 0x1c
71 #define NETR_OPNUM_LogonGetDomainInfo 0x1d
72 #define NETR_OPNUM_ServerPasswordSet2 0x1e

74 /*
75 * This is not a real NETR OPNUM. It's used to unpack the
76 * struct krb5_validation_info found in the Kerberos PAC.
77 */
78 #define NETR_OPNUM_decode_krb5_pac 1000

81 struct netr_sid {
82     BYTE Revision;
83     BYTE SubAuthCount;
84     BYTE Authority[6];
85     SIZE_IS(SubAuthCount)
86     DWORD SubAuthority[ANY_SIZE_ARRAY];
87 };
_____unchanged_portion_omitted_____
```



```

*****
39157 Sun Mar 18 01:13:06 2018
new/usr/src/uts/common/smbdrv/nd1/samrpc.nd1
1575 untangle libmlrpc ... (smbdrv)
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
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 */

22 /*
23  * Copyright (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
24  * Copyright 2015 Nexenta Systems, Inc. All rights reserved.
25  */

27 #ifndef _MLSVC_SAM_NDL_
28 #define _MLSVC_SAM_NDL_

30 /*
31  * Security Accounts Manager RPC (SAMR) interface definition.
32  */

34 #include <libmlrpc/ndrtypes.nd1>
34 #include "ndrtypes.nd1"

36 /* Windows NT */
37 #define SAMR_OPNUM_Connect          0x00    /* SamrConnect */
38 #define SAMR_OPNUM_CloseHandle     0x01
39 #define SAMR_OPNUM_SetSecObject    0x02
40 #define SAMR_OPNUM_QuerySecObject  0x03
41 #define SAMR_OPNUM_ShutdownSamServer 0x04    /* NotUsedOnWire */
42 #define SAMR_OPNUM_LookupDomain    0x05
43 #define SAMR_OPNUM_EnumLocalDomains 0x06
44 #define SAMR_OPNUM_OpenDomain     0x07
45 #define SAMR_OPNUM_QueryDomainInfo 0x08
46 #define SAMR_OPNUM_SetDomainInfo   0x09
47 #define SAMR_OPNUM_CreateDomainGroup 0x0a
48 #define SAMR_OPNUM_QueryDomainGroups 0x0b
49 #define SAMR_OPNUM_CreateDomainUser 0x0c
50 #define SAMR_OPNUM_EnumDomainUsers 0x0d
51 #define SAMR_OPNUM_CreateDomainAlias 0x0e
52 #define SAMR_OPNUM_EnumDomainAliases 0x0f
53 #define SAMR_OPNUM_LookupIds       0x10    /* GetAliasMembership */
54 #define SAMR_OPNUM_LookupNames     0x11
55 #define SAMR_OPNUM_LookupDomainIds 0x12
56 #define SAMR_OPNUM_OpenGroup       0x13
57 #define SAMR_OPNUM_QueryGroupInfo  0x14
58 #define SAMR_OPNUM_StoreGroupInfo  0x15
59 #define SAMR_OPNUM_AddGroupMember  0x16
60 #define SAMR_OPNUM_DeleteDomainGroup 0x17

```

```

61 #define SAMR_OPNUM_DeleteGroupMember 0x18
62 #define SAMR_OPNUM_ListGroupMembers 0x19
63 #define SAMR_OPNUM_SetGroupMemberAttributes 0x1a
64 #define SAMR_OPNUM_OpenAlias        0x1b
65 #define SAMR_OPNUM_QueryAliasInfo   0x1c
66 #define SAMR_OPNUM_SetAliasInfo     0x1d
67 #define SAMR_OPNUM_DeleteDomainAlias 0x1e
68 #define SAMR_OPNUM_AddAliasMember   0x1f
69 #define SAMR_OPNUM_DeleteAliasMember 0x20
70 #define SAMR_OPNUM_ListAliasMembers 0x21
71 #define SAMR_OPNUM_OpenUser         0x22
72 #define SAMR_OPNUM_DeleteUser       0x23
73 #define SAMR_OPNUM_QueryUserInfo    0x24
74 #define SAMR_OPNUM_SetUserInfo      0x25    /* SetUserInfo */
75 #define SAMR_OPNUM_ChangeUserPassword0 0x26    /* ChangeUserPassword */
76 #define SAMR_OPNUM_QueryUserGroups 0x27
77 #define SAMR_OPNUM_QueryDispInfo    0x28    /* QueryDispInfo1 */
78 #define SAMR_OPNUM_GetDisplayEnumIndex 0x29
79 #define SAMR_OPNUM_TestPrivateDomainFunctions 0x2a    /* NotUsedOnWire */
80 #define SAMR_OPNUM_TestPrivateUserFunctions 0x2b    /* NotUsedOnWire */
81 #define SAMR_OPNUM_GetUserPwInfo    0x2c

83 /* Windows 2000 */
84 #define SAMR_OPNUM_RemoveMemberFromForeignDomain 0x2d
85 #define SAMR_OPNUM_QueryInfoDomain2          0x2e
86 #define SAMR_OPNUM_QueryInfoUser2          0x2f
87 #define SAMR_OPNUM_EnumDomainGroups        0x30    /* QueryDispInfo2 */
88 #define SAMR_OPNUM_GetDisplayEnumIndex2    0x31
89 #define SAMR_OPNUM_CreateUser              0x32
90 #define SAMR_OPNUM_QueryDispInfo4         0x33
91 #define SAMR_OPNUM_AddMultipleAliasMembers 0x34
92 #define SAMR_OPNUM_RemoveMultipleAliasMembers 0x35
93 #define SAMR_OPNUM_ChangeUserOemPassword  0x36
94 #define SAMR_OPNUM_ChangePasswordUser2    0x37    /* UnicodePasswd */
95 #define SAMR_OPNUM_GetDomainPwInfo        0x38
96 #define SAMR_OPNUM_Connect2              0x39    /* SamrConnect2 */
97 #define SAMR_OPNUM_SetUserInfo           0x3a    /* SetInfoUser2 */
98 #define SAMR_OPNUM_SetBootKeyInformation  0x3b
99 #define SAMR_OPNUM_GetBootKeyInformation  0x3c
100 #define SAMR_OPNUM_Connect3              0x3d    /* NotUsedOnWire */
101 #define SAMR_OPNUM_Connect4             0x3e    /* SamrConnect4 */
102 #define SAMR_OPNUM_ChangeUserUnicodePassword3 0x3f

104 /* Windows XP and Windows Server 2003 */
105 #define SAMR_OPNUM_Connect5              0x40    /* SamrConnect5 */
106 #define SAMR_OPNUM_RidToSid             0x41
107 #define SAMR_OPNUM_SetDSRMPasswd        0x42
108 #define SAMR_OPNUM_ValidatePassword     0x43

110 /* Windows Vista */
111 #define SAMR_OPNUM_QueryLocalizableAccountsInDomain 0x44
112 #define SAMR_OPNUM_PerformGenericOperation 0x45

115 /*
116  * Sam account flags used when creating an account. These flags seem
117  * to be very similar to the USER_INFO_X flags (UF_XXX) in lmaccess.h
118  * but the values are different.
119  */
120 #define SAMR_AF_ACCOUNTDISABLE          0x0001
121 #define SAMR_AF_HOMEDIR_REQUIRED       0x0002
122 #define SAMR_AF_PASSWD_NOTREQD         0x0004
123 #define SAMR_AF_TEMP_DUPLICATE_ACCOUNT 0x0008
124 #define SAMR_AF_NORMAL_ACCOUNT         0x0010
125 #define SAMR_AF_MNS_LOGON_ACCOUNT      0x0020
126 #define SAMR_AF_INTERDOMAIN_TRUST_ACCOUNT 0x0040

```

```

127 #define SAMR_AF_WORKSTATION_TRUST_ACCOUNT    0x0080
128 #define SAMR_AF_SERVER_TRUST_ACCOUNT        0x0100
129 #define SAMR_AF_DONT_EXPIRE_PASSWD          0x0200
130 #define SAMR_AF_ACCOUNT_AUTOLOCK            0x0400

```

```

133 #define SAMR_AF_MACHINE_ACCOUNT_MASK      ( \
134     SAMR_AF_INTERDOMAIN_TRUST_ACCOUNT \
135     | SAMR_AF_WORKSTATION_TRUST_ACCOUNT \
136     | SAMR_AF_SERVER_TRUST_ACCOUNT)

```

```

138 #define SAMR_AF_ACCOUNT_TYPE_MASK        ( \
139     SAMR_AF_TEMP_DUPLICATE_ACCOUNT \
140     | SAMR_AF_NORMAL_ACCOUNT \
141     | SAMR_AF_INTERDOMAIN_TRUST_ACCOUNT \
142     | SAMR_AF_WORKSTATION_TRUST_ACCOUNT \
143     | SAMR_AF_SERVER_TRUST_ACCOUNT)

```

```

145 /*
146  * QueryUserInfo UserAllInformation WhichFields
147  */

```

```

148 #define SAMR_USER_ALL_USERNAME              0x00000001
149 #define SAMR_USER_ALL_FULLNAME             0x00000002
150 #define SAMR_USER_ALL_USERID               0x00000004
151 #define SAMR_USER_ALL_PRIMARYGROUPID      0x00000008
152 #define SAMR_USER_ALL_ADMINCOMMENT         0x00000010
153 #define SAMR_USER_ALL_USERCOMMENT         0x00000020
154 #define SAMR_USER_ALL_HOMEDIRECTORY        0x00000040
155 #define SAMR_USER_ALL_HOMEDIRECTORYDRIVE  0x00000080
156 #define SAMR_USER_ALL_SCRIPTPATH           0x00000100
157 #define SAMR_USER_ALL_PROFILEPATH          0x00000200
158 #define SAMR_USER_ALL_WORKSTATIONS         0x00000400
159 #define SAMR_USER_ALL_LASTLOGON            0x00000800
160 #define SAMR_USER_ALL_LASTLOGOFF           0x00001000
161 #define SAMR_USER_ALL_LOGONHOURS           0x00002000
162 #define SAMR_USER_ALL_BADPASSWORDCOUNT    0x00004000
163 #define SAMR_USER_ALL_LOGONCOUNT          0x00008000
164 #define SAMR_USER_ALL_PASSWORDCANCHANGE    0x00010000
165 #define SAMR_USER_ALL_PASSWORDMUSTCHANGE   0x00020000
166 #define SAMR_USER_ALL_PASSWORDLASTSET     0x00040000
167 #define SAMR_USER_ALL_ACCOUNTEXPIRES       0x00080000
168 #define SAMR_USER_ALL_USERACCOUNTCONTROL   0x00100000
169 #define SAMR_USER_ALL_PARAMETERS           0x00200000
170 #define SAMR_USER_ALL_COUNTRYCODE          0x00400000
171 #define SAMR_USER_ALL_CODEPAGE             0x00800000
172 #define SAMR_USER_ALL_NTPASSWORDPRESENT    0x01000000
173 #define SAMR_USER_ALL_LMPASSWORDPRESENT    0x02000000
174 #define SAMR_USER_ALL_PRIVATEDATA          0x04000000
175 #define SAMR_USER_ALL_PASSWORDEXPIRED      0x08000000
176 #define SAMR_USER_ALL_SECURITYDESCRIPTOR   0x10000000
177 #define SAMR_USER_ALL_OWF_PASSWORD         0x20000000
178 #define SAMR_USER_ALL_UNDEFINED_MASK       0xC0000000

```

```

180 /*
181  * Alias Access Mask values for SAMR
182  * Section 2.2.1.6 of MS-SAMR
183  */

```

```

184 #define SAMR_ALIAS_ACCESS_EXECUTE           0x00020008
185 #define SAMR_ALIAS_ACCESS_WRITE            0x00020013
186 #define SAMR_ALIAS_ACCESS_READ             0x00020004
187 #define SAMR_ALIAS_ACCESS_ALL_ACCESS       0x000F001F
188 #define SAMR_ALIAS_ACCESS_WRITE_ACCOUNT    0x00000010
189 #define SAMR_ALIAS_ACCESS_READ_INFO        0x00000008
190 #define SAMR_ALIAS_ACCESS_LIST_MEMBERS     0x00000004
191 #define SAMR_ALIAS_ACCESS_REMOVE_MEMBER    0x00000002
192 #define SAMR_ALIAS_ACCESS_ADD_MEMBER       0x00000001

```

```

194 #define SAMR_REVISION_1                     1      /* Pre Windows 2000 */
195 #define SAMR_REVISION_2                     2      /* Windows 2000 */
196 #define SAMR_REVISION_3                     3      /* Post Windows 2000 */

```

```

198 /*
199  * Definition for a SID. The nd1 compiler does not allow a typedef of
200  * a structure containing variable size members.
201  * Note: cast compatible with smb_sid_t, and code depends on that.
202  */

```

```

203 struct samr_sid {
204     BYTE          Revision;
205     BYTE          SubAuthCount;
206     BYTE          Authority[6];
207     SIZE_IS(SubAuthCount)
208     DWORD         SubAuthority[ANY_SIZE_ARRAY];
209 };

```

unchanged portion omitted

```

354 /*
355  * SAMPR_USER_PASSWORD (in the MS Net API) or
356  * struct samr_user_password (internal use) is
357  * the "clear" form of struct samr_encr_passwd
358  * (SAMPR_ENCRYPTED_USER_PASSWORD in MS Net).
359  * It's not used by ndrgen, but is declared here
360  * to help clarify the relationship between these,
361  * and for the benefit of our client-side code.
362  */
363 #ifndef NDRGEN
364 #define SAMR_USER_PWLEN 256
365 struct samr_user_password {
366     ndr_wchar_t    Buffer[SAMR_USER_PWLEN];
366     smb_wchar_t    Buffer[SAMR_USER_PWLEN];
367     DWORD Length;
368 };

```

unchanged portion omitted

new/usr/src/uts/common/smbdrv/nd1/spoolss.nd1

1

```
*****
19981 Sun Mar 18 01:13:06 2018
new/usr/src/uts/common/smbdrv/nd1/spoolss.nd1
1575 untangle libmlrpc ... (smbdrv)
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
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8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
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 (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
23 * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
24 */

26 #ifndef _SPOOLSS_NDL_
27 #define _SPOOLSS_NDL_

29 #include <libmlrpc/ndrtypes.nd1>
28 #include "ndrtypes.nd1"
30 #include "security.nd1"

32 #define TABLE_STRING 1
33 #define TABLE_DWORD 2
34 #define TABLE_TIME 3
35 #define TABLE_DEVMODE 4
36 #define TABLE_SECURITY_DESCRIPTOR 5

38 #define SPOOLSS_OPNUM_EnumPrinters 0x00
39 #define SPOOLSS_OPNUM_OpenPrinter 0x01
40 #define SPOOLSS_OPNUM_GetJob 0x03
41 #define SPOOLSS_OPNUM_EnumJobs 0x04
42 #define SPOOLSS_OPNUM_DeletePrinter 0x06
43 #define SPOOLSS_OPNUM_GetPrinter 0x08
44 #define SPOOLSS_OPNUM_GetPrinterDriver 0x0b
45 #define SPOOLSS_OPNUM_DeletePrinterDriver 0x0d
46 #define SPOOLSS_OPNUM_StartDocPrinter 0x11
47 #define SPOOLSS_OPNUM_StartPagePrinter 0x12
48 #define SPOOLSS_OPNUM_WritePrinter 0x13
49 #define SPOOLSS_OPNUM_EndPagePrinter 0x14
50 #define SPOOLSS_OPNUM_AbortPrinter 0x15
51 #define SPOOLSS_OPNUM_AddJob 0x18
52 #define SPOOLSS_OPNUM_ScheduleJob 0x19
53 #define SPOOLSS_OPNUM_GetPrinterData 0x1a
54 #define SPOOLSS_OPNUM_ClosePrinter 0x1d
55 #define SPOOLSS_OPNUM_AddForm 0x1e
56 #define SPOOLSS_OPNUM_DeleteForm 0x1f
57 #define SPOOLSS_OPNUM_EndDocPrinter 0x17
58 #define SPOOLSS_OPNUM_EnumForms 0x22
59 #define SPOOLSS_OPNUM_EnumPorts 0x23
60 #define SPOOLSS_OPNUM_EnumMonitor 0x24
```

new/usr/src/uts/common/smbdrv/nd1/spoolss.nd1

2

```
61 #define SPOOLSS_OPNUM_DeletePort 0x27
62 #define SPOOLSS_OPNUM_CreatePrinterIC 0x28
63 #define SPOOLSS_OPNUM_AddMonitor 0x2e
64 #define SPOOLSS_OPNUM_DeleteMonitor 0x2f
65 #define SPOOLSS_OPNUM_ResetPrinter 0x34
66 #define SPOOLSS_OPNUM_GetPrinterDriver2 0x35
67 #define SPOOLSS_OPNUM_FCPN 0x38
68 #define SPOOLSS_OPNUM_ReplyOpenPrinter 0x3a
69 #define SPOOLSS_OPNUM_ReplyClosePrinter 0x3c
70 #define SPOOLSS_OPNUM_AddPortEx 0x3d
71 #define SPOOLSS_OPNUM_RFFPCNEX 0x41
72 #define SPOOLSS_OPNUM_RRPCN 0x42
73 #define SPOOLSS_OPNUM_RFNPCNEX 0x43
74 #define SPOOLSS_OPNUM_OpenPrinterEx 0x45
75 #define SPOOLSS_OPNUM_SetPort 0x47
76 #define SPOOLSS_OPNUM_EnumPrinterData 0x48
77 #define SPOOLSS_OPNUM_EnumPrinterDataEx 0x4f
78 #define SPOOLSS_OPNUM_EnumPrinterKey 0x50

80 CONTEXT_HANDLE(spoolss_handle) spoolss_handle_t;

82 struct spoolssDevmodeContainer {
83     BYTE DevContCount;
84     SIZE_IS(DevContCount)
85     BYTE *DevMode;
86 };
_____unchanged_portion_omitted_____
```

```

*****
51723 Sun Mar 18 01:13:06 2018
new/usr/src/uts/common/smbdrv/nd1/srvsvc.nd1
1575 untangle libmlrpc ... (smbdrv)
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
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8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
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 2010 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 *
25 * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
26 */

28 #ifndef _MLSVC_LANMAN_NDL_
29 #define _MLSVC_LANMAN_NDL_

31 /*
32 * LanMan RPC (WKSSVC and SRVSVC) interface definitions.
33 */

35 #include <libmlrpc/ndrtypes.nd1>
33 #include "ndrtypes.nd1"

37 /*
38 * WARNING: The cpp(1) macros in this file are not understood by
39 * /usr/bin/cpp. Use /usr/libexec/cpp instead.
40 */

42 /*
43 * TYPE CONSTRUCTOR MACROS FOR INFORMATION RESULTS
44 *****
45 *
46 * This is an explanation of the macros that follow this comment.
47 *
48 * The LANMAN API's look something like this:
49 *
50 * NetXXXGetInfo (
51 *     IN char * servername,
52 *     IN char * XXX_name,
53 *     IN int level,
54 *     OUT char ** bufptr);
55 *
56 * The bufptr is a pointer-to-pointer (**). The NetXXXGetInfo() function
57 * malloc()'s memory, and sets *bufptr to the memory. The API's
58 * are indiscriminated about what bufptr really points to.
59 *
60 * However, for RPI (Remote Procedure Interface), this just won't fly.

```

```

61 * We have to know what the result data looks like in order to
62 * properly (un)marshall it.
63 *
64 * As best we can determine, the MSC developers use an RPI that looks
65 * like this (approximately in IDL):
66 *
67 * RemoteNetXXXGetInfo (
68 *     IN char * servername,
69 *     IN char * XXX_name,
70 *     IN int level,
71 *     OUT union switch(level) {
72 *         case(1): XXX_INFO_1 * info1;
73 *         case(2): XXX_INFO_2 * info2;
74 *     } bufptr);
75 *
76 * The level guides the (un)marshalling as it follows the pointer.
77 * DCE(MS) IDL will automatically form a structure for the union
78 * which looks about like this (much as Sun/RPC does):
79 *
80 * struct {
81 *     int _keyvalue_;
82 *     union {
83 *         XXX_INFO_1 *info1;
84 *         XXX_INFO_2 *info2;
85 *     } _u;
86 * } bufptr;
87 *
88 * This struct is not made visible to the application. It is purely
89 * an internal (automatic) thing. However, ndrngen does not do this.
90 * The ndrngen input MUST remain a valid C header file, and all
91 * struct and union declarations must be exact, and we (would) have
92 * to tediously code sequences like this (approximately NDL):
93 *
94 * union XXXGetInfo_result_u {
95 *     [case(1)]
96 *         XXX_INFO_1 * info1;
97 *     [case(2)]
98 *         XXX_INFO_2 * info2;
99 * };
100 *
101 * struct XXXGetInfo_result {
102 *     int level;
103 *
104 *     union XXXGetInfo_result_u bufptr;
105 * };
106 *
107 * struct XXXGetInfo_param { // still have to code this one
108 *     [in] char * servername;
109 *     [in] ushort level;
110 *     [out] struct XXXGetInfo_result result;
111 * };
112 *
113 * This is error prone and difficult to write, and more difficult
114 * and distracting to read. It is hard to pick through the
115 * necessary evils and see what's really going on. To mitigate
116 * the situation, we have a series of macros which generate
117 * the tedious code, and are easily recognized as supporting
118 * fluff rather than important structures:
119 *
120 * INFO1RES_DEFINITION(XXXGetInfo,
121 *     INFO1RES_UNION_ENTRY(XXXGetInfo, 1)
122 *     INFO1RES_UNION_ENTRY(XXXGetInfo, 2))
123 *
124 * structt XXXGetInfo_param { // still have to code this one
125 *     [in] char * servername;
126 *     [in] ushort level;

```

```

127 *      [out] struct XXXGetInfo_result result;
128 *      };
129 *
130 * The INFO1RES_DEFINITION macro defines two types:
131 *
132 *      union ..._ru {...}
133 *      struct ..._result { DWORD level; union ..._ru bufptr; }
134 *
135 * There is a similar macro, INFO1RESBUF_DEFINITION, which defines
136 * actual space rather than just pointers. It defines:
137 *
138 *      union ..._rb {...}
139 *      typedef union ..._rb ..._rb;
140 *
141 * Which is handy in functions because the initial coding sequence
142 * looks something like:
143 *
144 *      XXXGetInfoParam (struct XXXGetInfo_param *param) {
145 *          XXXGetInfo_rb  rb;
146 *
147 *          param->result.level = param->level;    // for marshalling
148 *          param->result.bufptr.nullptr = &rb;    // anything fits
149 *
150 * There are two flavors of Info results. The first is the
151 * single XXX_INFO_x result, which the foregoing example
152 * uses. The second flavor is when there are multiple entries
153 * possible. Again, for the sake of guiding the marshalling,
154 * the RPIs use something accommodating:
155 *
156 *      struct XXX_INFO_1_result {
157 *          unsigned  entriesread;
158 *          [size_is(entriesread)]
159 *          XXX_INFO_1 *  table;
160 *      };
161 *
162 *      union { XXX_INFO_1_result *info1; ...}
163 *
164 * Notice this is using XXX_INFO_1_result rather than just XXX_INFO_1.
165 * The requirements from this point are much like before. Because of
166 * the variable-length value, there is no realistic way to do something
167 * like INFO1RESBUF_DEFINITION.
168 *
169 * There are two sets of macros here. INFO1RES_xxx are for the
170 * single result case, and INFONRES_xxx for the multiple entry case.
171 */
172
173 /*
174 * INFO1RES...
175 *      Type constructors for single-result case
176 */
177
178 #define INFO1RES_DEFINITION(INFO1PREF, ENTRIES) \
179     INFO1RES_UNION(INFO1PREF, ENTRIES) \
180     INFO1RES_STRUCT(INFO1PREF)
181
182 #define INFO1RES_UNION(INFO1PREF, ENTRIES) \
183     union INFO1PREF##_ru { \
184         INFO1RES_UNION_NULLPTR \
185         ENTRIES \
186     };
187
188 #define INFO1RES_UNION_NULLPTR \
189     DEFAULT char *          nullptr;
190
191 #define INFO1RES_UNION_ENTRY(INFO1PREF, NUM) \
192     CASE(NUM) struct INFO1PREF##_##NUM * bufptr##NUM;

```

```

194 #define INFO1RES_STRUCT(INFO1PREF) \
195     struct INFO1PREF##_result { \
196         DWORD  level; \
197         SWITCH(level) \
198             union INFO1PREF##_ru bufptr; \
199     };
200
201 /*
202 * INFO1RESBUF...
203 *      Type constructors for single-result buffering.
204 */
205
206 #ifndef NDRGEN
207 #define INFO1RESBUF_DEFINITION(INFO1PREF, ENTRIES) \
208     typedef union INFO1PREF##_rb { \
209         ENTRIES \
210     } INFO1PREF##_rb;
211 #define INFO1RESBUF_UNION_ENTRY(INFO1PREF, NUM) \
212     CASE(NUM) struct INFO1PREF##_##NUM  buf##NUM;
213 #else
214 #define INFO1RESBUF_DEFINITION(INFO1PREF, ENTRIES)
215 #define INFO1RESBUF_UNION_ENTRY(INFO1PREF, NUM)
216 #endif
217
218 /*
219 * INFONRES...
220 *      Type constructors for multiple-result case
221 */
222
223 #define INFONRES_RESULT(INFO1PREF, NUM) \
224     struct INFO1PREF##_##NUM##_result { \
225         DWORD  entriesread; \
226         SIZE_IS(entriesread) \
227         struct INFO1PREF##_##NUM *entries; \
228     };
229
230 #define INFONRES_DEFINITION(INFO1PREF, ENTRIES) \
231     INFONRES_UNION(INFO1PREF, ENTRIES) \
232     INFONRES_STRUCT(INFO1PREF)
233
234 #define INFONRES_UNION(INFO1PREF, ENTRIES) \
235     union INFO1PREF##_ru { \
236         INFO1RES_UNION_NULLPTR \
237         INFONRES_UNION_INFONRES \
238         ENTRIES \
239     };
240
241 #define INFONRES_UNION_NULLPTR \
242     DEFAULT char *          nullptr;
243
244 #ifndef NDRGEN
245 #define INFONRES_UNION_INFONRES \
246     struct mslm_infonres *          p;
247 #else
248 #define INFONRES_UNION_INFONRES
249 #endif
250
251 #define INFONRES_UNION_ENTRY(INFO1PREF, NUM) \
252     CASE(NUM) struct INFO1PREF##_##NUM##_result * bufptr##NUM;
253
254 #define INFONRES_STRUCT(INFO1PREF) \

```

```
259     struct INFOPREF##_result { \
260         DWORD    level; \
261         SWITCH(level) \
262         union INFOPREF##_ru bufptr; \
263     };

265 #ifndef NDRGEN
266 /*
267 * This just makes things a little easier on the stub modules:
268 *
269 * XXXGetInfoParam (struct XXXGetInfo_param *param) {
270 *     struct mslm_infonres    infonres;
271 *
272 *     infonres.entriesread = 0;
273 *     infonres.entries = 0;
274 *     param->result.level = param->level;    // for marshalling
275 *     param->result.bufptr.p = &infonres;
276 */
277 struct mslm_infonres {
278     DWORD    entriesread;
279     void *    entries;
280 };
unchanged_portion_omitted
```

```

*****
19461 Sun Mar 18 01:13:06 2018
new/usr/src/uts/common/smbdrv/nd1/svcctl.nd1
1575 untangle libmlrpc ... (smbdrv)
*****
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20 */
21 /*
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25 * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
26 */

28 #ifndef _MLSVC_SVCCTL_NDL_
29 #define _MLSVC_SVCCTL_NDL_

31 /*
32  * NT Service Control Services (SVCCTL) RPC interface definition.
33  * This interface provides remote access to add, remove, start and
34  * stop services.
35  */

37 #include <libmlrpc/ndrtypes.nd1>
35 #include "ndrtypes.nd1"

39 /* Windows NT */
40 #define SVCCTL_OPNUM_Close 0x00
41 #define SVCCTL_OPNUM_ControlService 0x01
42 #define SVCCTL_OPNUM_DeleteService 0x02
43 #define SVCCTL_OPNUM_LockServiceDatabase 0x03
44 #define SVCCTL_OPNUM_QueryServiceSecurity 0x04
45 #define SVCCTL_OPNUM_SetServiceSecurity 0x05
46 #define SVCCTL_OPNUM_QueryServiceStatus 0x06
47 #define SVCCTL_OPNUM_SetServiceStatus 0x07
48 #define SVCCTL_OPNUM_UnlockServiceDatabase 0x08
49 #define SVCCTL_OPNUM_NotifyBootConfigStatus 0x09
50 #define SVCCTL_OPNUM_SetServiceBits 0x0a
51 #define SVCCTL_OPNUM_ChangeServiceConfig 0x0b
52 #define SVCCTL_OPNUM_CreateService 0x0c
53 #define SVCCTL_OPNUM_EnumDependentServices 0x0d
54 #define SVCCTL_OPNUM_EnumServicesStatus 0x0e
55 #define SVCCTL_OPNUM_OpenManager 0x0f
56 #define SVCCTL_OPNUM_OpenService 0x10
57 #define SVCCTL_OPNUM_QueryServiceConfig 0x11
58 #define SVCCTL_OPNUM_QueryServiceLockStatus 0x12
59 #define SVCCTL_OPNUM_StartService 0x13
60 #define SVCCTL_OPNUM_GetServiceDisplayNameW 0x14

```

```

61 #define SVCCTL_OPNUM_GetServiceKeyNameW 0x15
62 #define SVCCTL_OPNUM_SetServiceBitsA 0x16
63 #define SVCCTL_OPNUM_ChangeServiceConfigA 0x17
64 #define SVCCTL_OPNUM_CreateServiceA 0x18
65 #define SVCCTL_OPNUM_EnumDependentServicesA 0x19
66 #define SVCCTL_OPNUM_EnumServicesStatusA 0x1a
67 #define SVCCTL_OPNUM_OpenSCManagerA 0x1b
68 #define SVCCTL_OPNUM_OpenServiceA 0x1c
69 #define SVCCTL_OPNUM_QueryServiceConfigA 0x1d
70 #define SVCCTL_OPNUM_QueryServiceLockStatusA 0x1e
71 #define SVCCTL_OPNUM_StartServiceA 0x1f
72 #define SVCCTL_OPNUM_GetServiceDisplayNameA 0x20
73 #define SVCCTL_OPNUM_GetServiceKeyNameA 0x21
74 #define SVCCTL_OPNUM_GetCurrentGroupStateW 0x22
75 #define SVCCTL_OPNUM_EnumServiceGroupW 0x23
76 #define SVCCTL_OPNUM_ChangeServiceConfig2A 0x24
77 #define SVCCTL_OPNUM_ChangeServiceConfig2W 0x25
78 #define SVCCTL_OPNUM_QueryServiceConfig2A 0x26

80 /* Windows 2000 */
81 #define SVCCTL_OPNUM_QueryServiceConfig2W 0x27
82 #define SVCCTL_OPNUM_QueryServiceStatusEx 0x28
83 #define SVCCTL_OPNUM_EnumServicesStatusExA 0x29
84 #define SVCCTL_OPNUM_EnumServicesStatusExW 0x2a

86 /* Windows XP and Windows Server 2003 */
87 #define SVCCTL_OPNUM_SendTSMMessage 0x2b

89 /* Windows Vista */
90 #define SVCCTL_OPNUM_CreateServiceWOW64A 0x2c
91 #define SVCCTL_OPNUM_CreateServiceWOW64W 0x2d
92 #define SVCCTL_OPNUM_QueryServiceTagInfo 0x2e
93 #define SVCCTL_OPNUM_NotifyServiceStatusChange 0x2f
94 #define SVCCTL_OPNUM_GetNotifyResult 0x30
95 #define SVCCTL_OPNUM_CloseNotifyHandle 0x31
96 #define SVCCTL_OPNUM_ControlServiceExA 0x32
97 #define SVCCTL_OPNUM_ControlServiceExW 0x33
98 #define SVCCTL_OPNUM_SendPnPMessage 0x34
99 #define SVCCTL_OPNUM_ValidatePnPService 0x35
100 #define SVCCTL_OPNUM_OpenServiceStatusHandle 0x36

102 CONTEXT_HANDLE(svcctl_handle) svcctl_handle_t;

104 /*
105  * String definition for the ASCII interface.
106  */
107 struct svcctl_value {
108     DWORD    vc_first_is; /* 0 */
109     DWORD    vc_length_is;
110     SIZE_IS(vc_length_is)
111     BYTE    value[ANY_SIZE_ARRAY];
112 };
    unchanged_portion_omitted

```

```

*****
12197 Sun Mar 18 01:13:06 2018
new/usr/src/uts/common/smbdrv/nd1/winreg.nd1
1575 untangle libmlrpc ... (smbdrv)
*****
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25 * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
26 */

28 #ifndef _MLSVC_WINREG_NDL_
29 #define _MLSVC_WINREG_NDL_

31 /*
32  * Windows Registry (WINREG) RPC interface definition.
33  *
34  * The Windows registry is split into a number of hives, which are divided
35  * by function. The hive names are abbreviated and prefixed by HKEY or HK.
36  *
37  * HKEY_CLASSES_ROOT (HKCR) Information about registered applications
38  * HKEY_CURRENT_USER (HKCU) Settings for the current logged in user.
39  * HKEY_LOCAL_MACHINE (HKLM) Settings for all users on the computer.
40  * HKEY_USERS (HKU) HKEY_CURRENT_USER subkeys for user accounts.
41  * HKEY_CURRENT_CONFIG (HKCC) Runtime configuration information.
42  * HKEY_PERFORMANCE_DATA (HKPD) Runtime performance data.
43  * HKEY_DYN_DATA (HKDD) Runtime data for Windows 9x applications.
44  * HKEY_PERFORMANCE_TEXT (HKPT) Runtime performance information.
45  * HKEY_PERFORMANCE_NLS (HKPN) Runtime performance information.
46  */

48 #include <libmlrpc/ndrtypes.nd1>
46 #include "ndrtypes.nd1"

50 /* Windows NT */
51 #define WINREG_OPNUM_OpenHKCR 0x00
52 #define WINREG_OPNUM_OpenHKCU 0x01
53 #define WINREG_OPNUM_OpenHKLM 0x02
54 #define WINREG_OPNUM_OpenHKPD 0x03
55 #define WINREG_OPNUM_OpenHKUsers 0x04
56 #define WINREG_OPNUM_Close 0x05
57 #define WINREG_OPNUM_CreateKey 0x06
58 #define WINREG_OPNUM_DeleteKey 0x07
59 #define WINREG_OPNUM_DeleteValue 0x08
60 #define WINREG_OPNUM_EnumKey 0x09

```

```

61 #define WINREG_OPNUM_EnumValue 0x0a
62 #define WINREG_OPNUM_FlushKey 0x0b
63 #define WINREG_OPNUM_GetKeySec 0x0c
64 #define WINREG_OPNUM_LoadKey 0x0d
65 #define WINREG_OPNUM_NotifyChange 0x0e
66 #define WINREG_OPNUM_OpenKey 0x0f
67 #define WINREG_OPNUM_QueryKey 0x10
68 #define WINREG_OPNUM_QueryValue 0x11
69 #define WINREG_OPNUM_ReplaceKey 0x12
70 #define WINREG_OPNUM_RestoreKey 0x13
71 #define WINREG_OPNUM_SaveKey 0x14
72 #define WINREG_OPNUM_SetKeySec 0x15

74 /* Windows 2000 */
75 #define WINREG_OPNUM_CreateValue 0x16
76 #define WINREG_OPNUM_UnloadKey 0x17
77 #define WINREG_OPNUM_Shutdown 0x18
78 #define WINREG_OPNUM_AbortShutdown 0x19
79 #define WINREG_OPNUM_GetVersion 0x1a
80 #define WINREG_OPNUM_OpenHKCC 0x1b
81 #define WINREG_OPNUM_OpenHKDD 0x1c
82 #define WINREG_OPNUM_QueryMultiValues 0x1d
83 #define WINREG_OPNUM_ShutdownEx 0x1e

85 /* Windows XP and Windows Server 2003 */
86 #define WINREG_OPNUM_SavekeyEx 0x1f
87 #define WINREG_OPNUM_OpenHKPT 0x20
88 #define WINREG_OPNUM_OpenHKPN 0x21

90 /* Windows 2003 SP1 */
91 #define WINREG_OPNUM_QueryMultiValues2 0x22
92 #define WINREG_OPNUM_DeleteKeyEx 0x23

94 #define WINREG_TYPE_NONE 0
95 #define WINREG_SZ 1
96 #define WINREG_EXPAND_SZ 2
97 #define WINREG_BINARY 3
98 #define WINREG_DWORD 4
99 #define WINREG_DWORD_BIG_ENDIAN 5
100 #define WINREG_LINK 6
101 #define WINREG_MULTI_SZ 7
102 #define WINREG_RESOURCE_LIST 8
103 #define WINREG_RESOURCE_DESC 9
104 #define WINREG_RESOURCE_REQ_LIST 10
105 #define WINREG_QWORD 11

107 #define WINREG_ACCESS_QUERY_VALUE 0x00000001
108 #define WINREG_ACCESS_SET_VALUE 0x00000002
109 #define WINREG_ACCESS_CREATE_KEY 0x00000004
110 #define WINREG_ACCESS_ENUMERATE 0x00000008
111 #define WINREG_ACCESS_NOTIFY 0x00000010
112 #define WINREG_ACCESS_CREATE_LINK 0x00000020
113 #define WINREG_ACCESS_KEY64 0x00000100
114 #define WINREG_ACCESS_KEY32 0x00000200

116 CONTEXT_HANDLE(winreg_handle) winreg_handle_t;

118 struct winreg_string_desc {
119     WORD length;
120     WORD allosize;
121     LPTSTR str;
122 };

```

\_\_\_\_\_unchanged\_portion\_omitted\_\_\_\_\_



new/usr/src/uts/common/smb/rv/netrauth.h

1

```
*****
4272 Sun Mar 18 01:13:07 2018
new/usr/src/uts/common/smb/rv/netrauth.h
1575 untangle libmlrpc ... (smb/rv)
*****
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25 * Copyright 2015 Nexenta Systems, Inc. All rights reserved.
26 */

28 #ifndef _SMBRV_NETRAUTH_H
29 #define _SMBRV_NETRAUTH_H

31 /*
32 * NETR remote authentication and logon services.
33 */

35 #include <sys/types.h>
36 #include <smb/wintypes.h>
36 #include <smb/rv/wintypes.h>
37 #include <smb/rv/netbios.h>
38 #include <smb/rv/smbinfo.h>
39 #include <netdb.h>

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

45 /*
46 * See also netlogon.ndl.
47 */
48 #define NETR_WKSTA_TRUST_ACCOUNT_TYPE 0x02
49 #define NETR_DOMAIN_TRUST_ACCOUNT_TYPE 0x04

51 /*
52 * Negotiation flags for challenge/response authentication.
53 */
54 #define NETR_NEGOTIATE_BASE_FLAGS 0x000001FF
55 #define NETR_NEGOTIATE_STRONGKEY_FLAG 0x00004000

57 #define NETR_SESSKEY64_SZ 8
58 #define NETR_SESSKEY128_SZ 16
59 #define NETR_SESSKEY_MAXSZ NETR_SESSKEY128_SZ
60 #define NETR_CRED_DATA_SZ 8
```

new/usr/src/uts/common/smb/rv/netrauth.h

2

```
61 #define NETR_OWF_PASSWORD_SZ 16

63 /*
64 * SAM logon levels: interactive and network.
65 */
66 #define NETR_INTERACTIVE_LOGON 0x01
67 #define NETR_NETWORK_LOGON 0x02

69 /*
70 * SAM logon validation levels.
71 */
72 #define NETR_VALIDATION_LEVEL3 0x03

74 /*
75 * Most of these are from: "MSV1_0_LM20_LOGON structure"
76 * http://msdn.microsoft.com/en-us/library/windows/desktop/aa378762
77 * and a few are from the ntddk (ntmsv1_0.h) found many places.
78 */
79 #define MSV1_0_CLEARTEXT_PASSWORD_ALLOWED 0x00000002
80 #define MSV1_0_UPDATE_LOGON_STATISTICS 0x00000004
81 #define MSV1_0_RETURN_USER_PARAMETERS 0x00000008
82 #define MSV1_0_DONT_TRY_GUEST_ACCOUNT 0x00000010
83 #define MSV1_0_ALLOW_SERVER_TRUST_ACCOUNT 0x00000020
84 #define MSV1_0_RETURN_PASSWORD_EXPIRY 0x00000040
85 /*
86 * MSV1_0_USE_CLIENT_CHALLENGE means the LM response field contains the
87 * "client challenge" in the first 8 bytes instead of the LM response.
88 */
89 #define MSV1_0_USE_CLIENT_CHALLENGE 0x00000080
90 #define MSV1_0_TRY_GUEST_ACCOUNT_ONLY 0x00000100
91 #define MSV1_0_RETURN_PROFILE_PATH 0x00000200
92 #define MSV1_0_TRY_SPECIFIED_DOMAIN_ONLY 0x00000400
93 #define MSV1_0_ALLOW_WORKSTATION_TRUST_ACCOUNT 0x00000800
94 #define MSV1_0_DISABLE_PERSONAL_FALLBACK 0x00001000
95 #define MSV1_0_ALLOW_FORCE_GUEST 0x00002000
96 #define MSV1_0_CLEARTEXT_PASSWORD_SUPPLIED 0x00004000
97 #define MSV1_0_USE_DOMAIN_FOR_ROUTING_ONLY 0x00008000
98 #define MSV1_0_SUBAUTHENTICATION_DLL_EX 0x00100000

100 /*
101 * This is a duplicate of the netr_credential
102 * from netlogon.ndl.
103 */
104 typedef struct netr_cred {
105     BYTE data[NETR_CRED_DATA_SZ];
106 } netr_cred_t;
_____
unchanged portion omitted_
```

new/usr/src/uts/common/smbdrv/smb\_door.h

1

```
*****
5170 Sun Mar 18 01:13:07 2018
new/usr/src/uts/common/smbdrv/smb_door.h
1575 untangle libmlrpc ... (smbdrv)
*****
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18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
23 * Copyright 2014 Nexenta Systems, Inc. All rights reserved.
24 */

26 #ifndef _SMBDRV_SMB_DOOR_H
27 #define _SMBDRV_SMB_DOOR_H

29 #include <sys/door.h>
30 #include <smb/wintypes.h>
30 #include <smbdrv/wintypes.h>
31 #include <smbdrv/smb_xdr.h>
32 #include <smbdrv/smb_token.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 #define SMBD_DOOR_NAME          "/var/run/smbd_door"

40 #define SMB_DOOR_CALL_RETRIES    3

42 /*
43  * Opcodes for smbd door.
44  *
45  * SMB_DR_NULL is the equivalent of the NULL RPC. It ensures that an
46  * opcode of zero is not misinterpreted as an operational door call
47  * and it is available as a test interface.
48  *
49  * SMB_DR_ASYNC_RESPONSE delivers the response part of an asynchronous
50  * request and must be processed as a synchronous request.
51  *
52  * See also: smb_doorhdr_opname()
53  */
54 typedef enum smb_dopcode {
55     SMB_DR_NULL = 0,
56     SMB_DR_ASYNC_RESPONSE,
57     SMB_DR_USER_AUTH_LOGON,
58     SMB_DR_USER_NONAUTH_LOGON,
59     SMB_DR_USER_AUTH_LOGOFF,
60     SMB_DR_LOOKUP_SID,
```

new/usr/src/uts/common/smbdrv/smb\_door.h

2

```
61     SMB_DR_LOOKUP_NAME,
62     SMB_DR_JOIN,
63     SMB_DR_GET_DCINFO,
64     SMB_DR_VSS_GET_COUNT,
65     SMB_DR_VSS_GET_SNAPSHOTS,
66     SMB_DR_VSS_MAP_GMTTOKEN,
67     SMB_DR_ADS_FIND_HOST,
68     SMB_DR_QUOTA_QUERY,
69     SMB_DR_QUOTA_SET,
70     SMB_DR_DFS_GET_REFERRALS,
71     SMB_DR_SHR_HOSTACCESS,
72     SMB_DR_SHR_EXEC,
73     SMB_DR_NOTIFY_DC_CHANGED
74 } smb_dopcode_t;
_____ unchanged_portion_omitted
```

new/usr/src/uts/common/smb/srv/smb\_privilege.h

1

```
*****
7232 Sun Mar 18 01:13:07 2018
new/usr/src/uts/common/smb/srv/smb_privilege.h
1575 untangle libmlrpc ... (smb/srv)
*****
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25 * Copyright 2014 Nexenta Systems, Inc. All rights reserved.
26 */

28 #ifndef _SMB_PRIVILEGE_H
29 #define _SMB_PRIVILEGE_H

31 #include <smb/wintypes.h>
31 #include <smb/srv/wintypes.h>

33 #ifdef __cplusplus
34 extern "C" {
35 #endif

37 /*
38  * Privileges
39  *
40  * Privileges apply to all objects and over-ride the access controls
41  * in an object's security descriptor in a manner specific to each
42  * privilege. Privileges are still not full defined. Privileges are
43  * defined in a set structure (LUID = Locally Unique Identifier).
44  *
45  * The default LUID, name and display names defined on NT 4.0 are:
46  * LUID Privilege Name Display Name
47  * ---- -
48  * 0:2 SeCreateTokenPrivilege Create a token object
49  * 0:3 SeAssignPrimaryTokenPrivilege Replace a process level token
50  * 0:4 SeLockMemoryPrivilege Lock pages in memory
51  * 0:5 SeIncreaseQuotaPrivilege Increase quotas
52  * 0:6 SeMachineAccountPrivilege Add workstations to domain
53  * 0:7 SeTcbPrivilege Act as part of the operating system
54  * 0:8 SeSecurityPrivilege Manage auditing and security log
55  * 0:9 SeTakeOwnershipPrivilege Take ownership of files or other objects
56  * 0:10 SeLoadDriverPrivilege Load and unload device drivers
57  * 0:11 SeSystemProfilePrivilege Profile system performance
58  * 0:12 SeSystemTimePrivilege Change the system time
59  * 0:13 SeProfileSingleProcessPrivilege Profile single process
60  * 0:14 SeIncreaseBasePriorityPrivilege Increase scheduling priority
```

new/usr/src/uts/common/smb/srv/smb\_privilege.h

2

```
61 * 0:15 SeCreatePagefilePrivilege Create a pagefile
62 * 0:16 SeCreatePermanentPrivilege Create permanent shared objects
63 * 0:17 SeBackupPrivilege Back up files and directories
64 * 0:18 SeRestorePrivilege Restore files and directories
65 * 0:19 SeShutdownPrivilege Shut down the system
66 * 0:20 SeDebugPrivilege Debug programs
67 * 0:21 SeAuditPrivilege Generate security audits
68 * 0:22 SeSystemEnvironmentPrivilege Modify firmware environment values
69 * 0:23 SeChangeNotifyPrivilege Bypass traverse checking
70 * 0:24 SeRemoteShutdownPrivilege Force shutdown from a remote system
71 */

73 /*
74  * Privilege names
75 */
76 #define SE_CREATE_TOKEN_NAME "SeCreateTokenPrivilege"
77 #define SE_ASSIGNPRIMARYTOKEN_NAME "SeAssignPrimaryTokenPrivilege"
78 #define SE_LOCK_MEMORY_NAME "SeLockMemoryPrivilege"
79 #define SE_INCREASE_QUOTA_NAME "SeIncreaseQuotaPrivilege"
80 #define SE_UNSOLICITED_INPUT_NAME "SeUnsolicitedInputPrivilege"
81 #define SE_MACHINE_ACCOUNT_NAME "SeMachineAccountPrivilege"
82 #define SE_TCB_NAME "SeTcbPrivilege"
83 #define SE_SECURITY_NAME "SeSecurityPrivilege"
84 #define SE_TAKE_OWNERSHIP_NAME "SeTakeOwnershipPrivilege"
85 #define SE_LOAD_DRIVER_NAME "SeLoadDriverPrivilege"
86 #define SE_SYSTEM_PROFILE_NAME "SeSystemProfilePrivilege"
87 #define SE_SYSTEMTIME_NAME "SeSystemTimePrivilege"
88 #define SE_PROF_SINGLE_PROCESS_NAME "SeProfileSingleProcessPrivilege"
89 #define SE_INC_BASE_PRIORITY_NAME "SeIncreaseBasePriorityPrivilege"
90 #define SE_CREATE_PAGEFILE_NAME "SeCreatePagefilePrivilege"
91 #define SE_CREATE_PERMANENT_NAME "SeCreatePermanentPrivilege"
92 #define SE_BACKUP_NAME "SeBackupPrivilege"
93 #define SE_RESTORE_NAME "SeRestorePrivilege"
94 #define SE_SHUTDOWN_NAME "SeShutdownPrivilege"
95 #define SE_DEBUG_NAME "SeDebugPrivilege"
96 #define SE_AUDIT_NAME "SeAuditPrivilege"
97 #define SE_SYSTEM_ENVIRONMENT_NAME "SeSystemEnvironmentPrivilege"
98 #define SE_CHANGE_NOTIFY_NAME "SeChangeNotifyPrivilege"
99 #define SE_REMOTE_SHUTDOWN_NAME "SeRemoteShutdownPrivilege"

101 #define SE_MIN_LUID 2
102 #define SE_CREATE_TOKEN_LUID 2
103 #define SE_ASSIGNPRIMARYTOKEN_LUID 3
104 #define SE_LOCK_MEMORY_LUID 4
105 #define SE_INCREASE_QUOTA_LUID 5
106 #define SE_MACHINE_ACCOUNT_LUID 6
107 #define SE_TCB_LUID 7
108 #define SE_SECURITY_LUID 8
109 #define SE_TAKE_OWNERSHIP_LUID 9
110 #define SE_LOAD_DRIVER_LUID 10
111 #define SE_SYSTEM_PROFILE_LUID 11
112 #define SE_SYSTEMTIME_LUID 12
113 #define SE_PROF_SINGLE_PROCESS_LUID 13
114 #define SE_INC_BASE_PRIORITY_LUID 14
115 #define SE_CREATE_PAGEFILE_LUID 15
116 #define SE_CREATE_PERMANENT_LUID 16
117 #define SE_BACKUP_LUID 17
118 #define SE_RESTORE_LUID 18
119 #define SE_SHUTDOWN_LUID 19
120 #define SE_DEBUG_LUID 20
121 #define SE_AUDIT_LUID 21
122 #define SE_SYSTEM_ENVIRONMENT_LUID 22
123 #define SE_CHANGE_NOTIFY_LUID 23
124 #define SE_REMOTE_SHUTDOWN_LUID 24
125 #define SE_MAX_LUID 24
```

```
127 /*
128  * Privilege attributes
129  */
130 #define SE_PRIVILEGE_DISABLED          0x00000000
131 #define SE_PRIVILEGE_ENABLED_BY_DEFAULT 0x00000001
132 #define SE_PRIVILEGE_ENABLED          0x00000002
133 #define SE_PRIVILEGE_USED_FOR_ACCESS  0x80000000

135 /*
136  * Privilege Set Control flags
137  */
138 #define PRIVILEGE_SET_ALL_NECESSARY    1

140 /*
141  * Local User ID (an NT thing, not a Unix UID)
142  * See also: smb_luid_xdr()
143  */
144 typedef struct smb_luid {
145     uint32_t lo_part;
146     uint32_t hi_part;
147 } smb_luid_t;
_____unchanged_portion_omitted_____
```

new/usr/src/uts/common/smb/smb\_share.h

1

```
*****
8222 Sun Mar 18 01:13:07 2018
new/usr/src/uts/common/smb/smb_share.h
1575 untangle libmlrpc ... (smb/srv)
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
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 */

22 /*
23  * Copyright (c) 2008, 2010, Oracle and/or its affiliates. All rights reserved.
24  * Copyright 2013 Nexenta Systems, Inc. All rights reserved.
25  * Copyright (c) 2016 by Delphix. All rights reserved.
26 */

28 #ifndef _SMB_SHARE_H
29 #define _SMB_SHARE_H

31 #include <sys/param.h>
32 #include <smb/lmerr.h>
33 #include <smb/wintypes.h>
34 #include <smb/srv/string.h>
35 #include <smb/srv/smb_inet.h>
36 #include <smb/srv/hash_table.h>
37 #include <smb/srv/wintypes.h>
38 #include <smb/lmerr.h>

38 #if !defined(_KERNEL) && !defined(_FAKE_KERNEL)
39 #include <libshare.h>
40 #endif

42 #ifdef __cplusplus
43 extern "C" {
44 #endif

46 #define SMB_CVOL                "/var/smb/cvol"
47 #define SMB_SYSROOT             SMB_CVOL "/windows"
48 #define SMB_SYSTEM32            SMB_SYSROOT "/system32"
49 #define SMB_VSS                 SMB_SYSTEM32 "/vss"

51 /* Exported named pipes are in... */
52 #define SMB_PIPE_DIR            "/var/smb/pipe"

54 /*
55  * Share Properties:
56  *
57  * name                Advertised name of the share
58  *
59  * ad-container        Active directory container in which the share
```

new/usr/src/uts/common/smb/smb\_share.h

2

```
60 *
61 *
62 * abe                Determines whether Access Based Enumeration is applied
63 *                   to a share
64 *
65 * csc                Client-side caching (CSC) options applied to this share
66 *                   disabled The client MUST NOT cache any files
67 *                   manual   The client should not automatically cache every file
68 *                   auto     The client may cache every file that it opens
69 *                   vdo      The client may cache every file that it opens
70 *                   and satisfy file requests from its local cache.
71 *
72 *
73 * catia              CATIA character substitution
74 *
75 * guestok            Determines whether guest access is allowed
76 *
77 * next three properties use access-list a al NFS
78 *
79 * ro                 list of hosts that will have read-only access
80 * rw                 list of hosts that will have read/write access
81 * none              list of hosts that won't be allowed access
82 */
83 #define SHOPT_AD_CONTAINER    "ad-container"
84 #define SHOPT_ABE            "abe"
85 #define SHOPT_NAME           "name"
86 #define SHOPT_CSC            "csc"
87 #define SHOPT_CATIA         "catia"
88 #define SHOPT_GUEST         "guestok"
89 #define SHOPT_RO            "ro"
90 #define SHOPT_RW            "rw"
91 #define SHOPT_NONE          "none"
92 #define SHOPT_DFSROOT       "dfsroot"
93 #define SHOPT_DESCRIPTION   "description"

95 #define SMB_DEFAULT_SHARE_GROUP "smb"
96 #define SMB_PROTOCOL_NAME      "smb"

98 /*
99  * RAP protocol share related commands only understand
100 * share names in OEM format and there is a 13 char size
101 * limitation
102 */
103 #define SMB_SHARE_OEMNAME_MAX    13
104 #define SMB_SHARE_NTNAME_MAX    81
105 #define SMB_SHARE_CMNT_MAX      (64 * MTS_MB_CHAR_MAX)

107 /*
108  * struct SHARE_INFO_1 {
109  *     char                shil_netname[13]
110  *     char                shil_pad;
111  *     unsigned short      shil_type
112  *     char                *shil_remark;
113  * }
114 */
115 #define SHARE_INFO_1_SIZE      (SMB_SHARE_OEMNAME_MAX + 1 + 2 + 4)

117 /*
118  * Share flags:
119  *
120  * There are two types of flags:
121  *
122  * - flags that represent a share property
123  * - other flags set at runtime
124  *
125  * Property flags:
```

```

126 *
127 * SMB_SHRF_CSC_DISABLED      Client-side caching is disabled for this share
128 * SMB_SHRF_CSC_MANUAL      Manual client-side caching is allowed
129 * SMB_SHRF_CSC_AUTO        Automatic client-side caching (CSC) is allowed
130 * SMB_SHRF_CSC_VDO        Automatic CSC and local cache lookup is allowed
131 * SMB_SHRF_ACC_OPEN        No restrictions set
132 * SMB_SHRF_ACC_NONE        "none" property set
133 * SMB_SHRF_ACC_RO          "ro" (readonly) property set
134 * SMB_SHRF_ACC_RW          "rw" (read/write) property set
135 * SMB_SHRF_ACC_ALL         All of the access bits
136 * SMB_SHRF_CATIA          CATIA character translation on/off
137 * SMB_SHRF_GUEST_OK       Guest access on/off
138 * SMB_SHRF_ABE            Access Based Enumeration on/off
139 * SMB_SHRF_DFSROOT        Share is a standalone DFS root
140 *
141 * Runtime flags:
142 *
143 * SMB_SHRF_TRANS           Transient share
144 * SMB_SHRF_PERM            Permanent share
145 * SMB_SHRF_AUTOHOME        Autohome share.
146 * SMB_SHRF_ADMIN           Admin share
147 *
148 * All autohome shares are transient but not all transient shares are autohome.
149 * IPC$ and drive letter shares (e.g. d$, e$, etc) are transient but
150 * not autohome.
151 */

153 /*
154 * Property flags
155 */
156 #define SMB_SHRF_DFSROOT      0x0001
157 #define SMB_SHRF_CATIA       0x0002
158 #define SMB_SHRF_GUEST_OK    0x0004
159 #define SMB_SHRF_ABE         0x0008

161 #define SMB_SHRF_CSC_DISABLED 0x0010
162 #define SMB_SHRF_CSC_MANUAL  0x0020
163 #define SMB_SHRF_CSC_AUTO    0x0040
164 #define SMB_SHRF_CSC_VDO    0x0080
165 #define SMB_SHRF_CSC_MASK   0x00F0

167 #define SMB_SHRF_ACC_OPEN    0x0000
168 #define SMB_SHRF_ACC_NONE    0x0100
169 #define SMB_SHRF_ACC_RO     0x0200
170 #define SMB_SHRF_ACC_RW     0x0400
171 #define SMB_SHRF_ACC_ALL    0x0F00

173 /*
174 * Runtime flags
175 */
176 #define SMB_SHRF_ADMIN       0x01000000
177 #define SMB_SHRF_TRANS       0x10000000
178 #define SMB_SHRF_PERM        0x20000000
179 #define SMB_SHRF_AUTOHOME    0x40000000

181 #define SMB_SHARE_PRINT      "print$"
182 #define SMB_SHARE_PRINT_LEN  6
183 /*
184 * refcnt is currently only used for autohome. autohome needs a refcnt
185 * because a user can map their autohome share from more than one client
186 * at the same time and the share should only be removed when the last
187 * one is disconnected
188 */
189 typedef struct smb_share {
190     char      shr_name[MAXNAMELEN];
191     char      shr_path[MAXPATHLEN];

```

```

192     char      shr_cmnt[SMB_SHARE_CMNT_MAX];
193     char      shr_container[MAXPATHLEN];
194     uint32_t  shr_flags;
195     uint32_t  shr_type;
196     uint32_t  shr_refcnt;
197     uint32_t  shr_access_value; /* host return access value */
198     uid_t     shr_uid; /* autohome only */
199     gid_t     shr_gid; /* autohome only */
200     char      shr_access_none[MAXPATHLEN];
201     char      shr_access_ro[MAXPATHLEN];
202     char      shr_access_rw[MAXPATHLEN];
203 } smb_share_t;

```

unchanged portion omitted

new/usr/src/uts/common/smb/srv/smb\_sid.h

1

```

*****
10353 Sun Mar 18 01:13:07 2018
new/usr/src/uts/common/smb/srv/smb_sid.h
1575 untangle libmlrpc ... (smb/srv)
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
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 (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
23 * Copyright 2014 Nexenta Systems, Inc. All rights reserved.
24 */

26 #ifndef _SMB_SID_H
27 #define _SMB_SID_H

29 /*
30 * Security Identifier (SID) interface definition.
31 */
32 #include <smb/wintypes.h>
32 #include <smb/srv/wintypes.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 /*
39 * Predefined global user RIDs.
40 */
41 #define DOMAIN_USER_RID_ADMIN (0x000001F4L) /* 500 */
42 #define DOMAIN_USER_RID_GUEST (0x000001F5L) /* 501 */
43 #define DOMAIN_USER_RID_KRBTGT (0x000001F6L) /* 502 */

45 /*
46 * Predefined global group RIDs.
47 */
48 #define DOMAIN_GROUP_RID_ADMINS (0x00000200L) /* 512 */
49 #define DOMAIN_GROUP_RID_USERS (0x00000201L) /* 513 */
50 #define DOMAIN_GROUP_RID_GUESTS (0x00000202L) /* 514 */
51 #define DOMAIN_GROUP_RID_COMPUTERS (0x00000203L) /* 515 */
52 #define DOMAIN_GROUP_RID_CONTROLLERS (0x00000204L) /* 516 */
53 #define DOMAIN_GROUP_RID_CERT_ADMINS (0x00000205L) /* 517 */
54 #define DOMAIN_GROUP_RID_SCHEMA_ADMINS (0x00000206L) /* 518 */
55 #define DOMAIN_GROUP_RID_EP_ADMINS (0x00000207L) /* 519 */
56 #define DOMAIN_GROUP_RID_GP_CREATOR (0x00000208L) /* 520 */

59 /*
60 * Predefined local alias RIDs.

```

new/usr/src/uts/common/smb/srv/smb\_sid.h

2

```

61 */
62 #define DOMAIN_ALIAS_RID_ADMINS (0x00000220L) /* 544 */
63 #define DOMAIN_ALIAS_RID_USERS (0x00000221L)
64 #define DOMAIN_ALIAS_RID_GUESTS (0x00000222L)
65 #define DOMAIN_ALIAS_RID_POWER_USERS (0x00000223L)
66 #define DOMAIN_ALIAS_RID_ACCOUNT_OPS (0x00000224L)
67 #define DOMAIN_ALIAS_RID_SYSTEM_OPS (0x00000225L)
68 #define DOMAIN_ALIAS_RID_PRINT_OPS (0x00000226L)
69 #define DOMAIN_ALIAS_RID_BACKUP_OPS (0x00000227L)
70 #define DOMAIN_ALIAS_RID_REPLICATOR (0x00000228L)

73 /*
74 * Universal and NT well-known SIDs
75 */
76 #define NT_NULL_AUTH_SIDSTR "S-1-0"
77 #define NT_NULL_SIDSTR "S-1-0-0"
78 #define NT_WORLD_AUTH_SIDSTR "S-1-1"
79 #define NT_WORLD_SIDSTR "S-1-1-0"
80 #define NT_LOCAL_AUTH_SIDSTR "S-1-2"
81 #define NT_LOCAL_SIDSTR "S-1-2-0"
82 #define NT_CREATOR_AUTH_SIDSTR "S-1-3"
83 #define NT_CREATOR_OWNER_ID_SIDSTR "S-1-3-0"
84 #define NT_CREATOR_GROUP_ID_SIDSTR "S-1-3-1"
85 #define NT_CREATOR_OWNER_SERVER_ID_SIDSTR "S-1-3-2"
86 #define NT_CREATOR_GROUP_SERVER_ID_SIDSTR "S-1-3-3"
87 #define NT_OWNER_RIGHTS_SIDSTR "S-1-3-4"
88 #define NT_GROUP_RIGHTS_SIDSTR "S-1-3-5"
89 #define NT_NON_UNIQUE_IDS_SIDSTR "S-1-4"
90 #define NT_AUTHORITY_SIDSTR "S-1-5"
91 #define NT_DIALUP_SIDSTR "S-1-5-1"
92 #define NT_NETWORK_SIDSTR "S-1-5-2"
93 #define NT_BATCH_SIDSTR "S-1-5-3"
94 #define NT_INTERACTIVE_SIDSTR "S-1-5-4"
95 #define NT_LOGON_SESSION_SIDSTR "S-1-5-5"
96 #define NT_SERVICE_SIDSTR "S-1-5-6"
97 #define NT_ANONYMOUS_LOGON_SIDSTR "S-1-5-7"
98 #define NT_PROXY_SIDSTR "S-1-5-8"
99 #define NT_SERVER_LOGON_SIDSTR "S-1-5-9"
100 #define NT_SELF_SIDSTR "S-1-5-10"
101 #define NT_AUTHENTICATED_USER_SIDSTR "S-1-5-11"
102 #define NT_RESTRICTED_CODE_SIDSTR "S-1-5-12"
103 #define NT_TERMINAL_SERVER_SIDSTR "S-1-5-13"
104 #define NT_LOCAL_SYSTEM_SIDSTR "S-1-5-18"
105 #define NT_NON_UNIQUE_SIDSTR "S-1-5-21"
106 #define NT_BUILTIN_DOMAIN_SIDSTR "S-1-5-32"
107 #define NT_BUILTIN_CURRENT_OWNER_SIDSTR "S-1-5-32-766"
108 #define NT_BUILTIN_CURRENT_GROUP_SIDSTR "S-1-5-32-767"

111 /*
112 * SID type indicators (SID_NAME_USE).
113 */
114 #define SidTypeNull 0
115 #define SidTypeUser 1
116 #define SidTypeGroup 2
117 #define SidTypeDomain 3
118 #define SidTypeAlias 4
119 #define SidTypeWellKnownGroup 5
120 #define SidTypeDeletedAccount 6
121 #define SidTypeInvalid 7
122 #define SidTypeUnknown 8
123 #define SidTypeComputer 9
124 #define SidTypeLabel 10

```

```

127 /*
128 * Identifier authorities for various domains.
129 */
130 #define NT_SID_NULL_AUTH          0
131 #define NT_SID_WORLD_AUTH        1
132 #define NT_SID_LOCAL_AUTH        2
133 #define NT_SID_CREATOR_AUTH      3
134 #define NT_SID_NON_UNIQUE_AUTH   4
135 #define NT_SID_NT_AUTH           5

138 #define NT_SECURITY_NULL_AUTH    {0, 0, 0, 0, 0, 0}
139 #define NT_SECURITY_WORLD_AUTH   {0, 0, 0, 0, 0, 1}
140 #define NT_SECURITY_LOCAL_AUTH   {0, 0, 0, 0, 0, 2}
141 #define NT_SECURITY_CREATOR_AUTH {0, 0, 0, 0, 0, 3}
142 #define NT_SECURITY_NON_UNIQUE_AUTH {0, 0, 0, 0, 0, 4}
143 #define NT_SECURITY_NT_AUTH      {0, 0, 0, 0, 0, 5}
144 #define NT_SECURITY_UNIX_AUTH    {0, 0, 0, 0, 0, 99}

147 #define SECURITY_NULL_RID        (0x00000000L)
148 #define SECURITY_WORLD_RID       (0x00000000L)
149 #define SECURITY_LOCAL_RID       (0x00000000L)

151 #define SECURITY_CREATOR_OWNER_RID (0x00000000L)
152 #define SECURITY_CREATOR_GROUP_RID (0x00000001L)
153 #define SECURITY_CREATOR_OWNER_SERVER_RID (0x00000002L)
154 #define SECURITY_CREATOR_GROUP_SERVER_RID (0x00000003L)
155 #define SECURITY_OWNER_RIGHTS_RID (0x00000004L)
156 #define SECURITY_GROUP_RIGHTS_RID (0x00000005L)
157 #define SECURITY_CURRENT_OWNER_RID (0x000002FEL)
158 #define SECURITY_CURRENT_GROUP_RID (0x000002FFL)

160 #define SECURITY_DIALUP_RID       (0x00000001L)
161 #define SECURITY_NETWORK_RID      (0x00000002L)
162 #define SECURITY_BATCH_RID        (0x00000003L)
163 #define SECURITY_INTERACTIVE_RID (0x00000004L)
164 #define SECURITY_LOGON_IDS_RID    (0x00000005L)
165 #define SECURITY_LOGON_IDS_RID_COUNT (3L)
166 #define SECURITY_SERVICE_RID      (0x00000006L)
167 #define SECURITY_ANONYMOUS_LOGON_RID (0x00000007L)
168 #define SECURITY_PROXY_RID        (0x00000008L)
169 #define SECURITY_ENTERPRISE_CONTROLLERS_RID (0x00000009L)
170 #define SECURITY_SERVER_LOGON_RID SECURITY_ENTERPRISE_CONTROLLERS_RID
171 #define SECURITY_PRINCIPAL_SELF_RID (0x0000000AL)
172 #define SECURITY_AUTHENTICATED_USER_RID (0x0000000BL)
173 #define SECURITY_RESTRICTED_CODE_RID (0x0000000CL)

175 #define SECURITY_LOCAL_SYSTEM_RID (0x00000012L)
176 #define SECURITY_NT_NON_UNIQUE (0x00000015L)
177 #define SECURITY_BUILTIN_DOMAIN_RID (0x00000020L)

180 #define NT_SID_NON_UNIQUE_SUBAUTH 21

183 /*
184 * Common definition for a SID.
185 */
186 #define NT_SID_REVISION          1
187 #define NT_SID_AUTH_MAX          6
188 #define NT_SID_SUBAUTH_MAX       15

191 /*
192 * Security Identifier (SID)

```

```

193 *
194 * The security identifier (SID) uniquely identifies a user, group or
195 * a domain. It consists of a revision number, the identifier authority,
196 * and a list of sub-authorities. The revision number is currently 1.
197 * The identifier authority identifies which system issued the SID. The
198 * sub-authorities of a domain SID uniquely identify a domain. A user
199 * or group SID consists of a domain SID with the user or group id
200 * appended. The user or group id (also known as a relative id (RID)
201 * uniquely identifies a user within a domain. A user or group SID
202 * uniquely identifies a user or group across all domains. The SidType
203 * values identify the various types of SID.
204 *
205 *      1 1 1 1 1 1
206 *      5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
207 *
208 * |-----|-----|-----|
209 * | SubAuthorityCount |Reserved1 (SBZ)| Revision |
210 * |-----|-----|-----|
211 * | IdentifierAuthority[0] |
212 * |-----|-----|-----|
213 * | IdentifierAuthority[1] |
214 * |-----|-----|-----|
215 * | IdentifierAuthority[2] |
216 * |-----|-----|-----|
217 * | SubAuthority[] |
218 * |-----|-----|-----|
219 *
220 *
221 */
222 /*
223 * Note: NT defines the Identifier Authority as a separate
224 * structure (SID_IDENTIFIER_AUTHORITY) containing a literal
225 * definition of a 6 byte vector but the effect is the same
226 * as defining it as a member value.
227 * See also: smb_sid_xdr()
228 */
229 typedef struct smb_sid {
230     uint8_t sid_revision;
231     uint8_t sid_subauthcnt;
232     uint8_t sid_authority[NT_SID_AUTH_MAX];
233     uint32_t sid_subauth[ANY_SIZE_ARRAY];
234 } smb_sid_t;

```

unchanged portion omitted



new/usr/src/uts/common/smb/rv/smb\_xdr.h

1

```
*****
10025 Sun Mar 18 01:13:07 2018
new/usr/src/uts/common/smb/rv/smb_xdr.h
1575 untangle libmlrpc ... (smb/rv)
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
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 (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
23 * Copyright 2015 Nexenta Systems, Inc. All rights reserved.
24 */

26 #ifndef _SMBRV_SMB_XDR_H
27 #define _SMBRV_SMB_XDR_H

29 #ifdef __cplusplus
30 extern "C" {
31 #endif

33 #include <rpc/xdr.h>
34 #include <sys/param.h>
35 #include <sys/avl.h>
36 #include <sys/list.h>
37 #include <smb/wintypes.h>
38 #include <smb/rv/wintypes.h>
39 #include <smb/rv/smb_sid.h>
40 #include <smb/rv/smbinfo.h>
41 #include <smb/rv/smb_ioctl.h>
42 #include <smb/rv/smb_share.h>
43 #include <smb/rv/smb_dfs.h>
44 #include <smb/rv/wintypes.h>

45 #if defined(_KERNEL) || defined(_FAKE_KERNEL)
46 #include <sys/sysmacros.h>
47 #define xdr_int8_t      xdr_char
48 #define xdr_uint8_t     xdr_u_char
49 #define xdr_int16_t     xdr_short
50 #define xdr_uint16_t    xdr_u_short
51 #else /* _KERNEL */
52 #include <stddef.h>     /* offsetof */
53 #endif /* _KERNEL */

55 /*
56  * null-terminated string
57  * See also: smb_string_xdr()
58  */
59 typedef struct smb_string {
```

new/usr/src/uts/common/smb/rv/smb\_xdr.h

2

```
60         char *buf;
61     } smb_string_t;
_____unchanged_portion_omitted_
```