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2 |     Related to the book Inside Active Directory, ISBN 0-201-61621-1
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4 |     Version: November 16, 2001
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10 | the script, you must retain this copyright notice.
11 | -----
12 |
13 | =====
14 | See CH10-10 IncludeExample.wsf for an example of how to include
15 | this file in your script.
16 | =====
17 |
18 | This file includes all the constant definitions that are used in the
19 | script samples of the Inside Active Directory book, as well as some
20 | other constant definitions. The constants represent the following
21 | categories:
22 | - VBScript
23 | - WSH
24 | - Windows
25 | - Active Directory/ADSI
26 |
27 | -----
28 | Category: VBScript
29 | -----
30 |
31 | Error codes
32 | Const E_VBS_OBJECT_REQUIRED = 424
33 | 'For more error codes, see VBScript help
34 |
35 | OpenTextFile method options
36 | Const ForReading = 1
37 |
38 | -----
39 | Category: WSH
40 | -----
41 |
42 | WshShell Run method options
43 | Const WAIT_ON_RETURN = True
44 | Const HIDE_WINDOW = 0
45 | 'For more options, see WSH help
46 |
47 | -----
48 | Category: Windows
49 | -----
50 |
51 | NTFS ACE options
52 |
53 | NTFS ACE options: AccessMask
54 | Const FILE_READ_DATA           = &H1       'file & pipe
55 | Const FILE_LIST_DIRECTORY      = &H1       'folder
56 | Const FILE_WRITE_DATA          = &H2       'file & pipe
57 | Const FILE_ADD_FILE            = &H2       'folder
58 | Const FILE_APPEND_DATA         = &H4       'file
59 | Const FILE_ADD_SUBDIRECTORY    = &H4       'folder
60 | Const FILE_CREATE_PIPE_INSTANCE = &H4     'named pipe
61 | Const FILE_READ_EA             = &H8       'file & folder
62 | Const FILE_WRITE_EA            = &H10      'file & folder
63 | Const FILE_EXECUTE             = &H20      'file
64 | Const FILE_TRAVERSE            = &H20      'folder
65 | Const FILE_DELETE_CHILD        = &H40      'folder
66 | Const FILE_READ_ATTRIBUTES     = &H80      'all
67 | Const FILE_WRITE_ATTRIBUTES    = &H100     'all
68 | Const DELETE                   = &H10000
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69 Const READ_CONTROL = &H20000
70 Const WRITE_DAC = &H40000
71 Const WRITE_OWNER = &H80000
72 Const SYNCHRONIZE = &H100000
73 Const ACCESS_SYSTEM_SECURITY = &H1000000
74 Const GENERIC_ALL = &H10000000
75 Const GENERIC_EXECUTE = &H20000000
76 Const GENERIC_WRITE = &H40000000
77 Const GENERIC_READ = &H80000000
78
79 Const FULL_CONTROL = &H1F01FF '14 permissions
80 Const MODIFY = &H1301BF '11 permissions
81
82 'NTFS ACE options: ACE flags
83 Const OBJECT_INHERIT_ACE = &H1
84 Const CONTAINER_INHERIT_ACE = &H2
85 Const NO_PROPAGATE_INHERIT_ACE = &H4
86 Const INHERIT_ONLY_ACE = &H8
87 Const INHERITED_ACE = &H10
88 Const SUCCESSFUL_ACCESS_ACE_FLAG = &H40
89 Const FAILED_ACCESS_ACE_FLAG = &H80
90
91 'NTFS ACE options: ACE types
92 Const ACCESS_ALLOWED_ACE_TYPE = &H0
93 Const ACCESS_DENIED_ACE_TYPE = &H1
94 Const SYSTEM_AUDIT_ACE_TYPE = &H2
95 Const SYSTEM_ALARM_ACE_TYPE = &H3
96 Const ACCESS_ALLOWED_COMPOUND_ACE_TYPE = &H4
97 Const ACCESS_ALLOWED_OBJECT_ACE_TYPE = &H5
98 Const ACCESS_DENIED_OBJECT_ACE_TYPE = &H6
99 Const SYSTEM_AUDIT_OBJECT_ACE_TYPE = &H7
100 Const SYSTEM_ALARM_OBJECT_ACE_TYPE = &H8
101
102 'NTFS ACE options: Flags
103 Const ADS_OBJECT_TYPE_PRESENT = &H1
104 Const ADS_INHERITED_OBJECT_TYPE_PRESENT = &H2
105
106 ' -----
107 ' Category: Active Directory/ADSI
108 ' -----
109
110 'Security descriptor control flags
111 Const ADS_SD_CONTROL_SE_OWNER_DEFAULTED = &H0001
112 Const ADS_SD_CONTROL_SE_GROUP_DEFAULTED = &H0002
113 Const ADS_SD_CONTROL_SE_DACL_PRESENT = &H0004
114 Const ADS_SD_CONTROL_SE_DACL_DEFAULTED = &H0008
115 Const ADS_SD_CONTROL_SE_SACL_PRESENT = &H0010
116 Const ADS_SD_CONTROL_SE_SACL_DEFAULTED = &H0020
117 Const ADS_SD_CONTROL_SE_DACL_AUTO_INHERIT_REQ = &H0100
118 Const ADS_SD_CONTROL_SE_SACL_AUTO_INHERIT_REQ = &H0200
119 Const ADS_SD_CONTROL_SE_DACL_AUTO_INHERITED = &H0400
120 Const ADS_SD_CONTROL_SE_SACL_AUTO_INHERITED = &H0800
121 Const ADS_SD_CONTROL_SE_DACL_PROTECTED = &H1000
122 Const ADS_SD_CONTROL_SE_SACL_PROTECTED = &H2000
123 Const ADS_SD_CONTROL_SE_SELF_RELATIVE = &H8000
124
125 'AD ACE options
126
127 'AD ACE options: AccessMask
128 Const ADS_RIGHT_DS_CREATE_CHILD = &H1
129 Const ADS_RIGHT_DS_DELETE_CHILD = &H2
130 Const ADS_RIGHT_ACTRL_DS_LIST = &H4
131 Const ADS_RIGHT_DS_SELF = &H8
132 Const ADS_RIGHT_DS_READ_PROP = &H10
133 Const ADS_RIGHT_DS_WRITE_PROP = &H20
134 Const ADS_RIGHT_DS_DELETE_TREE = &H40
135 Const ADS_RIGHT_DS_LIST_OBJECT = &H80
136 Const ADS_RIGHT_DS_CONTROL_ACCESS = &H100
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137 Const ADS_RIGHT_DELETE = &H10000
138 Const ADS_RIGHT_READ_CONTROL = &H20000
139 Const ADS_RIGHT_WRITE_DAC = &H40000
140 Const ADS_RIGHT_WRITE_OWNER = &H80000
141 Const ADS_RIGHT_SYNCHRONIZE = &H100000
142 Const ADS_RIGHT_ACCESS_SYSTEM_SECURITY = &H1000000
143 Const ADS_RIGHT_GENERIC_ALL = &H10000000
144 Const ADS_RIGHT_GENERIC_EXECUTE = &H20000000
145 Const ADS_RIGHT_GENERIC_WRITE = &H40000000
146 Const ADS_RIGHT_GENERIC_READ = &H80000000
147
148 Const ADS_RIGHT_FULL_CONTROL = &HF01FF
149
150 'AD ACE options: ACE flags
151 Const ADS_ACEFLAG_INHERIT_ACE = &H2
152 Const ADS_ACEFLAG_NO_PROPAGATE_INHERIT_ACE = &H4
153 Const ADS_ACEFLAG_INHERIT_ONLY_ACE = &H8
154 Const ADS_ACEFLAG_INHERITED_ACE = &H10
155 Const ADS_ACEFLAG_SUCCESSFUL_ACCESS = &H40
156 Const ADS_ACEFLAG_FAILED_ACCESS = &H80
157
158 'AD ACE options: ACE types
159 Const ADS_ACETYPE_ACCESS_ALLOWED = 0
160 Const ADS_ACETYPE_ACCESS_DENIED = &H1
161 Const ADS_ACETYPE_SYSTEM_AUDIT = &H2
162 Const ADS_ACETYPE_ACCESS_ALLOWED_OBJECT = &H5
163 Const ADS_ACETYPE_ACCESS_DENIED_OBJECT = &H6
164 Const ADS_ACETYPE_SYSTEM_AUDIT_OBJECT = &H7
165
166 'AD ACE options: Flags
167 Const ADS_FLAG_OBJECT_TYPE_PRESENT = &H1
168 Const ADS_FLAG_INHERITED_OBJECT_TYPE_PRESENT = &H2
169
170 'Some schemaIDGUIDs
171 Const SCHEMAIDGUID_USER = "{BF967ABA-0DE6-11D0-A285-00AA003049E2}"
172 Const SCHEMAIDGUID_GROUP = "{BF967A9C-0DE6-11D0-A285-00AA003049E2}"
173 Const SCHEMAIDGUID_COMPUTER = "{BF967A86-0DE6-11D0-A285-00AA003049E2}"
174 Const SCHEMAIDGUID_CONTACT = "{5CB41ED0-0E4C-11D0-A286-00AA003049E2}"
175 Const SCHEMAIDGUID_OU = "{BF967AA5-0DE6-11D0-A285-00AA003049E2}"
176 Const SCHEMAIDGUID_PRINTER = "{BF967AA8-0DE6-11D0-A285-00AA003049E2}"
177
178 'Some extended rights
179 Const GUID_ACCOUNT_RESTRICTIONS = "{4C164200-20C0-11D0-A768-00AA006E0529}"
180 Const GUID_VALIDATED_SPN = "{F3A64788-5306-11D1-A9C5-0000F80367C1}"
181 Const GUID_VALIDATED_DNSHOST = "{72E39547-7B18-11D1-ADEF-00C04FD8D5CD}"
182 Const GUID_RESET_PASSWORD = "{00299570-246D-11D0-A768-00AA006E0529}"
183
184 'ADs Types
185 Const ADSTYPE_INVALID = 0
186 Const ADSTYPE_DN_STRING = 1
187 Const ADSTYPE_CASE_EXACT_STRING = 2
188 Const ADSTYPE_CASE_IGNORE_STRING = 3
189 Const ADSTYPE_PRINTABLE_STRING = 4
190 Const ADSTYPE_NUMERIC_STRING = 5
191 Const ADSTYPE_BOOLEAN = 6
192 Const ADSTYPE_INTEGER = 7
193 Const ADSTYPE_OCTET_STRING = 8
194 Const ADSTYPE_UTC_TIME = 9
195 Const ADSTYPE_LARGE_INTEGER = 10
196 Const ADSTYPE_PROV_SPECIFIC = 11
197 Const ADSTYPE_OBJECT_CLASS = 12
198 Const ADSTYPE_CASEIGNORE_LIST = 13
199 Const ADSTYPE_OCTET_LIST = 14
200 Const ADSTYPE_PATH = 15
201 Const ADSTYPE_POSTALADDRESS = 16
202 Const ADSTYPE_TIMESTAMP = 17
203 Const ADSTYPE_BACKLINK = 18
204 Const ADSTYPE_TYPEDNAME = 19
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205 Const ADSTYPE_HOLD = 20
206 Const ADSTYPE_NETADDRESS = 21
207 Const ADSTYPE_REPLICAPOINTER = 22
208 Const ADSTYPE_FAXNUMBER = 23
209 Const ADSTYPE_EMAIL = 24
210 Const ADSTYPE_NT_SECURITY_DESCRIPTOR = 25
211 Const ADSTYPE_UNKNOWN = 26
212 Const ADSTYPE_DN_WITH_BINARY = 27
213 Const ADSTYPE_DN_WITH_STRING = 28
214
215 'Error codes
216 Const E_ADS_PROPERTY_NOT_FOUND = &H8000500D
217 Const ERROR_OBJECT_ALREADY_EXISTS = &H80071392
218 Const ERROR_DS_NO_ATTRIBUTE_OR_VALUE = &H8007200A
219 Const ERROR_DS_NO_SUCH_OBJECT = &H80072030
220 Const ERROR_DS_UNWILLING_TO_PERFORM = &H80072035
221
222 'Schema searchFlags
223 Const ATTR_INDEXED = &H1
224 Const ATTR_INDEXED_OVER_CONT_AND_ATTR = &H2
225 Const ATTR_PART_OF_ANR_SET = &H4
226 Const ATTR_SURVIVE_DELETION = &H8
227 Const ATTR_COPY_WITH_USER = &H10
228
229 'Schema systemFlags
230 Const ATTR_NOT_REPLICATED = &H1
231 Const ATTR_IS_CONSTRUCTED = &H4
232 Const ATTR_IS_BASE_SCHEMA = &H10
233
234 'User account options
235 Const UF_SCRIPT = &H0001
236 Const UF_ACCOUNTDISABLE = &H0002
237 Const UF_HOMEDIR_REQUIRED = &H0008
238 Const UF_LOCKOUT = &H0010
239 Const UF_PASSWD_NOTREQD = &H0020
240 Const UF_PASSWD_CANT_CHANGE = &H0040
241 Const UF_ENCRYPTED_TEXT_PASSWORD_ALLOWED = &H0080
242 Const UF_DONT_EXPIRE_PASSWD = &H10000
243 Const UF_MNS_LOGON_ACCOUNT = &H20000
244 Const UF_SMARTCARD_REQUIRED = &H40000
245 Const UF_TRUSTED_FOR_DELEGATION = &H80000
246 Const UF_NOT_DELEGATED = &H100000
247 Const UF_USE_DES_KEY_ONLY = &H200000
248 Const UF_DONT_REQUIRE_PEAUTH = &H400000
249
250 Const UF_TEMP_DUPLICATE_ACCOUNT = &H0100 'local account
251 Const UF_NORMAL_ACCOUNT = &H0200 'global account
252 Const UF_INTERDOMAIN_TRUST_ACCOUNT = &H0800 'incoming trust
253 Const UF_WORKSTATION_TRUST_ACCOUNT = &H1000 'ws or ms comp
254 Const UF_SERVER_TRUST_ACCOUNT = &H2000 'dc computer
255
256 'Group scopes and types
257 Const ADS_GROUP_TYPE_GLOBAL_GROUP = &H2
258 Const ADS_GROUP_TYPE_DOMAIN_LOCAL_GROUP = &H4
259 Const ADS_GROUP_TYPE_LOCAL_GROUP = &H4
260 Const ADS_GROUP_TYPE_UNIVERSAL_GROUP = &H8
261 Const ADS_GROUP_TYPE_SECURITY_ENABLED = &H80000000
262
263 'Well-known GUIDs
264 Const GUID_USERS_CONTAINER = "a9d1ca15768811d1aded00c04fd8d5cd"
265 Const GUID_COMPUTRS_CONTAINER = "aa312825768811d1aded00c04fd8d5cd"
266 Const GUID_SYSTEMS_CONTAINER = "ab1d30f3768811d1aded00c04fd8d5cd"
267 Const GUID_DOMAIN_CONTROLLERS_CONTAINER = "a361b2ffffd211d1aa4b00c04fd7d83a"
268 Const GUID_INFRASTRUCTURE_CONTAINER = "2fbac1870ade11d297c400c04fd8d5cd"
269 Const GUID_DELETED_OBJECTS_CONTAINER = "18e2ea80684f11d2b9aa00c04f79f805"
270 Const GUID_LOSTANDFOUND_CONTAINER = "ab8153b7768811d1aded00c04fd8d5cd"
271
272 'Service status codes
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273 Const ADS_SERVICE_STOPPED = 1
274 Const ADS_SERVICE_START_PENDING = 2
275 Const ADS_SERVICE_STOP_PENDING = 3
276 Const ADS_SERVICE_RUNNING = 4
277 Const ADS_SERVICE_CONTINUE_PENDING = 5
278 Const ADS_SERVICE_PAUSE_PENDING = 6
279 Const ADS_SERVICE_PAUSED = 7
280 Const ADS_SERVICE_ERROR = 8
281
282 'OpenDSObject authentication mode
283 Const ADS_SECURE_AUTHENTICATION = &H1
284 Const ADS_USE_ENCRYPTION = &H2
285 Const ADS_USE_SSL = &H2
286 Const ADS_READONLY_SERVER = &H4
287 Const ADS_PROMPT_CREDENTIALS = &H8
288 Const ADS_NO_AUTHENTICATION = &H10
289 Const ADS_FAST_BIND = &H20
290 Const ADS_USE_SIGNING = &H40
291 Const ADS_USE_SEALING = &H80
292 Const ADS_USE_DELEGATION = &H100
293 Const ADS_SERVER_BIND = &H200
294
295 'ADO/LDAP referral chasing options
296 Const ADS_CHASE_REFERRALS_NEVER = 0
297 Const ADS_CHASE_REFERRALS_SUBORDINATE = &H20
298 Const ADS_CHASE_REFERRALS_EXTERNAL = &H40
299 Const ADS_CHASE_REFERRALS_ALWAYS = &H60 ' &H20 + &H40
300
301 'ADO/LDAP search scope options
302 Const ADS_SCOPE_BASE = 0
303 Const ADS_SCOPE_ONELEVEL = 1
304 Const ADS_SCOPE_SUBTREE = 2
305
306 'PutEx modes
307 Const ADS_PROPERTY_CLEAR = 1
308 Const ADS_PROPERTY_UPDATE = 2
309 Const ADS_PROPERTY_APPEND = 3
310 Const ADS_PROPERTY_DELETE = 4
311
312 'IADsNameTranslate name types
313 Const ADS_NAME_TYPE_1779 = 1
314 Const ADS_NAME_TYPE_CANONICAL = 2
315 Const ADS_NAME_TYPE_NT4 = 3
316 Const ADS_NAME_TYPE_DISPLAY = 4
317 Const ADS_NAME_TYPE_DOMAIN_SIMPLE = 5
318 Const ADS_NAME_TYPE_ENTERPRISE_SIMPLE = 6
319 Const ADS_NAME_TYPE_GUID = 7
320 Const ADS_NAME_TYPE_UNKNOWN = 8
321 Const ADS_NAME_TYPE_USER_PRINCIPAL_NAME = 9
322 Const ADS_NAME_TYPE_CANONICAL_EX = 10
323 Const ADS_NAME_TYPE_SERVICE_PRINCIPAL_NAME = 11
324 Const ADS_NAME_TYPE_SID_OR_SID_HISTORY_NAME = 12
325
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