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SID Strings

Article • 09/26/2023 • 7 contributors   🗨 Feedback

In the security descriptor definition language (SDDL), security descriptor string use SID strings for the following components of a *security descriptor*:

- Owner
- Primary group
- The trustee in an ACE

A SID string in a security descriptor string can use either the standard string representation of a SID (S-*R-I-S-S*) or one of the string constants defined in Sddl.h. For more information about the standard SID string notation, see SID Components.

The following SID string constants for well-known SIDs are defined in Sddl.h. For information about the corresponding *relative IDs* (RIDs), see Well-known SIDs.

⛶ Expand table

SDDL SID string	Constant in Sddl.h	Account alias and corresponding RID
"AA"	SDDL_ACCESS_CONTROL_ASSISTANCE_OPS	Access control assistance operators. The correspo... DOMAIN_ALIAS_RID_ACCESS_CONTROL_ASSIST... Server 2008 R2, Windows 7, Windows Server 20... Windows Server 2003: Not available.
"AC"	SDDL_ALL_APP_PACKAGES	All applications running in an app package contex... is SECURITY_BUILTIN_PACKAGE_ANY_PACKAGE. ... R2, Windows 7, Windows Server 2008, Window... Server 2003: Not available.
"AN"	SDDL_ANONYMOUS	Anonymous logon. The corresponding RID is SECURITY_ANONYMOUS_LOGON_RID.
"AO"	SDDL_ACCOUNT_OPERATORS	Account operators. The corresponding RID is DOMAIN_ALIAS_RID_ACCOUNT_OPS.
"AP"	SDDL_PROTECTED_USERS	Protected Users. The corresponding RID is DOMAIN_GROUP_RID_PROTECTED_USERS. **Wind**... **Windows 8, Windows Server 2008 R2, Window**... **2008, Windows Vista and Windows Server 2003**...
"AU"	SDDL_AUTHENTICATED_USERS	Authenticated users. The corresponding RID is SECURITY_AUTHENTICATED_USER_RID.
"BA"	SDDL_BUILTIN_ADMINISTRATORS	Built-in administrators. The corresponding RID is DOMAIN_ALIAS_RID_ADMINS.
"BG"	SDDL_BUILTIN_GUESTS	Built-in guests. The corresponding RID is DOMAI...
"BO"	SDDL_BACKUP_OPERATORS	Backup operators. The corresponding RID is DOMAIN_ALIAS_RID_BACKUP_OPS.
"BU"	SDDL_BUILTIN_USERS	Built-in users. The corresponding RID is DOMAIN...
"CA"	SDDL_CERT_SERV_ADMINISTRATORS	Certificate publishers. The corresponding RID is DOMAIN_GROUP_RID_CERT_ADMINS.

"CD"	SDDL_CERTSVC_DCOM_ACCESS	Users who can connect to certification authorities Component Object Model (DCOM). The correspo DOMAIN_ALIAS_RID_CERTSVC_DCOM_ACCESS_(2008, Windows Vista and Windows Server 200:
"CG"	SDDL_CREATOR_GROUP	Creator group. The corresponding RID is SECURITY_CREATOR_GROUP_RID.
"CN"	SDDL_CLONEABLE_CONTROLLERS	Cloneable domain controllers. The corresponding DOMAIN_GROUP_RID_CLONEABLE_CONTROLLE 2008 R2, Windows 7, Windows Server 2008, Wi Windows Server 2003: Not available.
"CO"	SDDL_CREATOR_OWNER	Creator owner. The corresponding RID is SECURITY_CREATOR_OWNER_RID.
"CY"	SDDL_CRYPTO_OPERATORS	Crypto operators. The corresponding RID is DOMAIN_ALIAS_RID_CRYPTO_OPERATORS. *Winc available.
"DA"	SDDL_DOMAIN_ADMINISTRATORS	Domain administrators. The corresponding RID is DOMAIN_GROUP_RID_ADMINS.
"DC"	SDDL_DOMAIN_COMPUTERS	Domain computers. The corresponding RID is DOMAIN_GROUP_RID_COMPUTERS.
"DD"	SDDL_DOMAIN_DOMAIN_CONTROLLERS	Domain controllers. The corresponding RID is DOMAIN_GROUP_RID_CONTROLLERS.
"DG"	SDDL_DOMAIN_GUESTS	Domain guests. The corresponding RID is DOMA
"DU"	SDDL_DOMAIN_USERS	Domain users. The corresponding RID is DOMAIN
"EA"	SDDL_ENTERPRISE_ADMINS	Enterprise administrators. The corresponding RID DOMAIN_GROUP_RID_ENTERPRISE_ADMINS.
"ED"	SDDL_ENTERPRISE_DOMAIN_CONTROLLERS	Enterprise domain controllers. The corresponding SECURITY_SERVER_LOGON_RID.
"EK"	SDDL_ENTERPRISE_KEY_ADMINS	Enterprise key admins. The corresponding RID is DOMAIN_GROUP_RID_ENTERPRISE_KEY_ADMIN: R2, Windows 8.1, Windows Server 2012, Window 2008 R2, Windows 7, Windows Server 2008, Wi Windows Server 2003: Not available.
"ER"	SDDL_EVENT_LOG_READERS	Event log readers. The corresponding RID is DOMAIN_ALIAS_RID_EVENT_LOG_READERS_GRC 2008, Windows Vista and Windows Server 200:
"ES"	SDDL_RDS_ENDPOINT_SERVERS	Endpoint servers. The corresponding RID is DOMAIN_ALIAS_RID_RDS_ENDPOINT_SERVERS. \ R2, Windows 7, Windows Server 2008, Window Server 2003: Not available.
"HA"	SDDL_HYPER_V_ADMINS	Hyper-V administrators. The corresponding RID i: DOMAIN_ALIAS_RID_HYPER_V_ADMINS. Window Windows 7, Windows Server 2008, Windows Vi 2003: Not available.
"HI"	SDDL_ML_HIGH	High integrity level. The corresponding RID is SECURITY_MANDATORY_HIGH_RID. Windows Se
"HO"	SDDL_USER_MODE_HARDWARE_OPERATORS	Group members may operate hardware from use corresponding RID is DOMAIN_ALIAS_RID_USER_MODE_HARDWARE_(
"IS"	SDDL_IIS_USERS	Anonymous Internet users. The corresponding RI DOMAIN_ALIAS_RID_IUSERS. Windows Server 2(
"IU"	SDDL_INTERACTIVE	Interactively logged-on user. This is a group iden of a process when it was logged on interactively. type is LOGON32_LOGON_INTERACTIVE. The co SECURITY_INTERACTIVE_RID.

"KA"	SDDL_KEY_ADMINS	Domain key admins. The corresponding RID is DOMAIN_GROUP_RID_KEY_ADMINS. **Windows ! Windows 8.1, Windows Server 2012, Windows 8 R2, Windows 7, Windows Server 2008, Window Server 2003:** Not available.
"LA"	SDDL_LOCAL_ADMIN	Local administrator. The corresponding RID is DOMAIN_USER_RID_ADMIN.
"LG"	SDDL_LOCAL_GUEST	Local guest. The corresponding RID is DOMAIN_U
"LS"	SDDL_LOCAL_SERVICE	Local service account. The corresponding RID is SECURITY_LOCAL_SERVICE_RID.
"LU"	SDDL_PERFLOG_USERS	Performance Log users. The corresponding RID is DOMAIN_ALIAS_RID_LOGGING_USERS.
"LW"	SDDL_ML_LOW	Low integrity level. The corresponding RID is SECURITY_MANDATORY_LOW_RID. **Windows Se**
"ME"	SDDL_ML_MEDIUM	Medium integrity level. The corresponding RID is SECURITY_MANDATORY_MEDIUM_RID. **Window** available.
"MP"	SDDL_ML_MEDIUM_PLUS	Medium Plus integrity level. The corresponding R SECURITY_MANDATORY_MEDIUM_PLUS_RID. **W Windows Vista and Windows Server 2003:** Not
"MU"	SDDL_PERFMON_USERS	Performance Monitor users. The corresponding R DOMAIN_ALIAS_RID_MONITORING_USERS.
"NO"	SDDL_NETWORK_CONFIGURATION_OPS	Network configuration operators. The corresponc DOMAIN_ALIAS_RID_NETWORK_CONFIGURATIC
"NS"	SDDL_NETWORK_SERVICE	Network service account. The corresponding RID SECURITY_NETWORK_SERVICE_RID.
"NU"	SDDL_NETWORK	Network logon user. This is a group identifier add process when it was logged on across a network. type is LOGON32_LOGON_NETWORK. The corres SECURITY_NETWORK_RID.
"OW"	SDDL_OWNER_RIGHTS	Owner Rights SID. The corresponding RID is SECURITY_CREATOR_OWNER_RIGHTS_RID. *Wind* available.
"PA"	SDDL_GROUP_POLICY_ADMINS	Group Policy administrators. The corresponding F DOMAIN_GROUP_RID_POLICY_ADMINS.
"PO"	SDDL_PRINTER_OPERATORS	Printer operators. The corresponding RID is DOMAIN_ALIAS_RID_PRINT_OPS
"PS"	SDDL_PERSONAL_SELF	Principal self. The corresponding RID is SECURITY
"PU"	SDDL_POWER_USERS	Power users. The corresponding RID is DOMAIN_ALIAS_RID_POWER_USERS.
"RA"	SDDL_RDS_REMOTE_ACCESS_SERVERS	RDS remote access servers. The corresponding RI DOMAIN_ALIAS_RID_RDS_REMOTE_ACCESS_SER\ **2008 R2, Windows 7, Windows Server 2008, W Windows Server 2003:** Not available.
"RC"	SDDL_RESTRICTED_CODE	Restricted code. This is a restricted token created [CreateRestrictedToken](#) function. The correspondi SECURITY_RESTRICTED_CODE_RID.
"RD"	SDDL_REMOTE_DESKTOP	Terminal server users. The corresponding RID is DOMAIN_ALIAS_RID_REMOTE_DESKTOP_USERS.
"RE"	SDDL_REPLICATOR	Replicator. The corresponding RID is DOMAIN_AL
"RM"	SDDL_RMS__SERVICE_OPERATORS	RMS Service. **Available only in Windows Vista**.

"RO"	SDDL_ENTERPRISE_RO_DCs	Enterprise Read-only domain controllers. The cor... DOMAIN_GROUP_RID_ENTERPRISE_READONLY_... **Windows Server 2008, Windows Vista and Win...** available.
"RS"	SDDL_RAS_SERVERS	RAS servers group. The corresponding RID is DOMAIN_ALIAS_RID_RAS_SERVERS.
"RU"	SDDL_ALIAS_PREW2KCOMPACC	Alias to grant permissions to accounts that use a... with operating systems previous to Windows 200... RID is DOMAIN_ALIAS_RID_PREW2KCOMPACCE...
"SA"	SDDL_SCHEMA_ADMINISTRATORS	Schema administrators. The corresponding RID is DOMAIN_GROUP_RID_SCHEMA_ADMINS.
"SI"	SDDL_ML_SYSTEM	System integrity level. The corresponding RID is SECURITY_MANDATORY_SYSTEM_RID. **Windows...** available.
"SO"	SDDL_SERVER_OPERATORS	Server operators. The corresponding RID is DOMAIN_ALIAS_RID_SYSTEM_OPS.
"SS"	SDDL_SERVICE_ASSERTED	Authentication service asserted. The correspondin... SECURITY_AUTHENTICATION_SERVICE_ASSERTED... **2008 R2, Windows 7, Windows Server 2008, W... Windows Server 2003:** Not available.
"SU"	SDDL_SERVICE	Service logon user. This is a group identifier adde... process when it was logged as a service. The corr... LOGON32_LOGON_SERVICE. The corresponding... SECURITY_SERVICE_RID.
"SY"	SDDL_LOCAL_SYSTEM	Local system. The corresponding RID is SECURITY...
"UD"	SDDL_USER_MODE_DRIVERS	User-mode driver. The corresponding RID is SECURITY_USERMODEDRIVERHOST_ID_BASE_RID... **R2, Windows 7, Windows Server 2008, Window... Server 2003:** Not available.
"WD"	SDDL_EVERYONE	Everyone. The corresponding RID is SECURITY_W...
"WR"	SDDL_WRITE_RESTRICTED_CODE	Write Restricted code. The corresponding RID is SECURITY_WRITE_RESTRICTED_CODE_RID. *Wind...* available.

The **ConvertSidToStringSid** and **ConvertStringSidToSid** functions always use the standard SID string notation and do not support SDDL SID string constants.

For more information about well-known SIDs, see Well-known SIDs.

See also

[MS-DTYP]: Security Descriptor Description Language

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Provide product feedback ⧉ | Get help at Microsoft Q&A

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