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SID Strings

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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 comment
"AA"	SDDL_ACCESS_CONTROL_ASSISTANCE_OPS	Access control assistance. The DOMAIN_ALIAS_RID_AA. Server 2008 R2, Windows Server 2003
"AC"	SDDL_ALL_APP_PACKAGES	All applications running on the system. SECURITY_BUILTIN_DOMAIN_RID, Windows 7, Windows Server 2003: Not available
"AN"	SDDL_ANONYMOUS	Anonymous logon. The SECURITY_ANONYMOUS
"AO"	SDDL_ACCOUNT_OPERATORS	Account operators. The DOMAIN_ALIAS_RID_AO
"AP"	SDDL_PROTECTED_USERS	Protected Users . The DOMAIN_GROUP_RID_AP. Windows 8, Windows 2008, Windows Vista
"AU"	SDDL_AUTHENTICATED_USERS	Authenticated users. The SECURITY_AUTHENTICATED_USERS
"BA"	SDDL_BUILTIN_ADMINISTRATORS	Built-in administrators. The DOMAIN_ALIAS_RID_BA
"BG"	SDDL_BUILTIN_GUESTS	Built-in guests. The DOMAIN_ALIAS_RID_BG
"BO"	SDDL_BACKUP_OPERATORS	Backup operators. The DOMAIN_ALIAS_RID_BO
"BU"	SDDL_BUILTIN_USERS	Built-in users. The DOMAIN_ALIAS_RID_BU

"CA"	SDDL_CERT_SERV_ADMINISTRATORS	Certificate publishers. The DOMAIN_GROUP_RID.
"CD"	SDDL_CERTSVC_DCOM_ACCESS	Users who can connect Component Object Model DOMAIN_ALIAS_RID_C 2008, Windows Vista
"CG"	SDDL_CREATOR_GROUP	Creator group. The core SECURITY_CREATOR_G
"CN"	SDDL_CLONEABLE_CONTROLLERS	Cloneable domain controller DOMAIN_GROUP_RID. 2008 R2, Windows 7, Windows Server 2003
"CO"	SDDL_CREATOR_OWNER	Creator owner. The core SECURITY_CREATOR_O
"CY"	SDDL_CRYPTOP_OPERATORS	Crypto operators. The DOMAIN_ALIAS_RID_C available.
"DA"	SDDL_DOMAIN_ADMINISTRATORS	Domain administrators DOMAIN_GROUP_RID.
"DC"	SDDL_DOMAIN_COMPUTERS	Domain computers. The DOMAIN_GROUP_RID.
"DD"	SDDL_DOMAIN_DOMAIN_CONTROLLERS	Domain controllers. The DOMAIN_GROUP_RID.
"DG"	SDDL_DOMAIN_GUESTS	Domain guests. The co
"DU"	SDDL_DOMAIN_USERS	Domain users. The cor
"EA"	SDDL_ENTERPRISE_ADMINS	Enterprise administrators DOMAIN_GROUP_RID.
"ED"	SDDL_ENTERPRISE_DOMAIN_CONTROLLERS	Enterprise domain controller SECURITY_SERVER_LO
"EK"	SDDL_ENTERPRISE_KEY_ADMINS	Enterprise key admins. DOMAIN_GROUP_RID. R2, Windows 8.1, Win

		2008 R2, Windows 7, Windows Server 2003
"ER"	SDDL_EVENT_LOG_READERS	Event log readers. The DOMAIN_ALIAS_RID_EVENTLOG_READERS. 2008, Windows Vista and Windows Server 2008: Not available.
"ES"	SDDL_RDS_ENDPOINT_SERVERS	Endpoint servers. The DOMAIN_ALIAS_RID_ENDPOINT_SERVERS. 2008 R2, Windows 7, Windows Server 2003: Not available.
"HA"	SDDL_HYPER_V_ADMINS	Hyper-V administrator. The DOMAIN_ALIAS_RID_HYPER_V_ADMINS. 2008 R2, Windows 7, Windows Server 2003: Not available.
"HI"	SDDL_ML_HIGH	High integrity level. The SECURITY_MANDATORY_HIGH. 2008 R2, Windows 7, Windows Server 2003: Not available.
"HO"	SDDL_USER_MODE_HARDWARE_OPERATORS	Group members may control hardware. The corresponding RID is DOMAIN_ALIAS_RID_USERS. 2008 R2, Windows 7, Windows Server 2003: Not available.
"IS"	SDDL_IIS_USERS	Anonymous Internet user. The DOMAIN_ALIAS_RID_IIS_USERS. 2008 R2, Windows 7, Windows Server 2003: Not available.
"IU"	SDDL_INTERACTIVE	Interactively logged-on user. The type of a process when it was started. The type is LOGON32_LOGON_INTERACTIVE. The SECURITY_INTERACTIVE. 2008 R2, Windows 7, Windows Server 2003: Not available.
"KA"	SDDL_KEY_ADMINS	Domain key admins. The DOMAIN_GROUP_RID_KEY_ADMINS. 2008 R2, Windows 7, Windows Server 2003: Not available.
"LA"	SDDL_LOCAL_ADMIN	Local administrator. The DOMAIN_USER_RID_LOCAL_ADMIN. 2008 R2, Windows 7, Windows Server 2003: Not available.
"LG"	SDDL_LOCAL_GUEST	Local guest. The corresponding RID is DOMAIN_USER_RID_LOCAL_GUEST. 2008 R2, Windows 7, Windows Server 2003: Not available.
"LS"	SDDL_LOCAL_SERVICE	Local service account. The SECURITY_LOCAL_SERVICE. 2008 R2, Windows 7, Windows Server 2003: Not available.

"LU"	SDDL_PERFLOG_USERS	Performance Log users DOMAIN_ALIAS_RID_L
"LW"	SDDL_ML_LOW	Low integrity level. The SECURITY_MANDATOR
"ME"	SDDL_ML_MEDIUM	Medium integrity level. SECURITY_MANDATOR available.
"MP"	SDDL_ML_MEDIUM_PLUS	Medium Plus integrity SECURITY_MANDATOR Windows Vista and W
"MU"	SDDL_PERFMON_USERS	Performance Monitor u DOMAIN_ALIAS_RID_M
"NO"	SDDL_NETWORK_CONFIGURATION_OPS	Network configuration DOMAIN_ALIAS_RID_N
"NS"	SDDL_NETWORK_SERVICE	Network service account SECURITY_NETWORK_S
"NU"	SDDL_NETWORK	Network logon user. Th process when it was lo type is LOGON32_LOG SECURITY_NETWORK_I
"OW"	SDDL_OWNER_RIGHTS	Owner Rights SID. The SECURITY_CREATOR_O available.
"PA"	SDDL_GROUP_POLICY_ADMINS	Group Policy administr DOMAIN_GROUP_RID_P
"PO"	SDDL_PRINTER_OPERATORS	Printer operators. The DOMAIN_ALIAS_RID_P
"PS"	SDDL_PERSONAL_SELF	Principal self. The corre
"PU"	SDDL_POWER_USERS	Power users. The corre DOMAIN_ALIAS_RID_P
"RA"	SDDL_RDS_REMOTE_ACCESS_SERVERS	RDS remote access ser DOMAIN_ALIAS_RID_R

		2008 R2, Windows 7, 'Windows Server 2003
"RC"	SDDL_RESTRICTED_CODE	Restricted code. This is CreateRestrictedToken SECURITY_RESTRICTED
"RD"	SDDL_REMOTE_DESKTOP	Terminal server users. 1 DOMAIN_ALIAS_RID_R
"RE"	SDDL_REPLICATOR	Replicator. The correspo
"RM"	SDDL_RMS__SERVICE_OPERATORS	RMS Service. Available
"RO"	SDDL_ENTERPRISE_RO_DC	Enterprise Read-only d DOMAIN_GROUP_RID. Windows Server 2008 available.
"RS"	SDDL_RAS_SERVERS	RAS servers group. The DOMAIN_ALIAS_RID_R
"RU"	SDDL_ALIAS_PREW2KCOMPACC	Alias to grant permissio with operating systems RID is DOMAIN_ALIAS.
"SA"	SDDL_SCHEMA_ADMINISTRATORS	Schema administrators DOMAIN_GROUP_RID.
"SI"	SDDL_ML_SYSTEM	System integrity level. ' SECURITY_MANDATOR available.
"SO"	SDDL_SERVER_OPERATORS	Server operators. The c DOMAIN_ALIAS_RID_S
"SS"	SDDL_SERVICE_ASSERTED	Authentication service SECURITY_AUTHENTIC 2008 R2, Windows 7, 'Windows Server 2003
"SU"	SDDL_SERVICE	Service logon user. This process when it was lo LOGON32_LOGON_SE SECURITY_SERVICE_RID

"SY"	SDDL_LOCAL_SYSTEM	Local system. The corre
"UD"	SDDL_USER_MODE_DRIVERS	User-mode driver. The SECURITY_USERMODE R2, Windows 7, Wind Server 2003: Not avail
"WD"	SDDL_EVERYONE	Everyone. The correspc
"WR"	SDDL_WRITE_RESTRICTED_CODE	Write Restricted code. SECURITY_WRITE_REST 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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