Directory Service Reference Update

Networking > Mac OS X Server

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Contents

Introduction to Directory Service Reference Update

This document summarizes the symbols that have been added to the Directory Service framework. The full reference documentation notes in what version a symbol was introduced, but sometimes it's useful to see only the new symbols for a given release.

If you are not familiar with this framework you should refer to the complete framework reference documentation.

Organization of This Document

Symbols are grouped by class or protocol for Objective-C and by header file for C. For each symbol there is a link to complete documentation, if available, and a brief description, if available.

See Also

For reference documentation on this framework, see *Directory Service Framework Reference*.

10.5 Symbol Changes

This article lists the symbols added to `DirectoryService.framework` in Mac OS X v10.5.

C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

DirServices.h

Functions

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`dsGetNextAttributeEntry`	
`dsGetNextAttributeValue`	
`dsIsDirServiceLocalRunning`	
`dsOpenDirServiceLocal`	

DirServicesConst.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`kDS1AttrAttrListRefCount`	
`kDS1AttrAttrListValueRefCount`	
`kDS1AttrBirthday`	
`kDS1AttrBuildVersion`	
`kDS1AttrCapacity`	

`kDS1AttrConfigAvail`	
`kDS1AttrConfigFile`	
`kDS1AttrContactGUID`	
`kDS1AttrCoreFWVersion`	
`kDS1AttrDirRefCount`	
`kDS1AttrFunctionalState`	
`kDS1AttrFWVersion`	
`kDS1AttrLDAPSearchBaseSuffix`	
`kDS1AttrMapGUID`	
`kDS1AttrMetaAutomountMap`	
`kDS1AttrNetworkNumber`	
`kDS1AttrNodeRefCount`	
`kDS1AttrOwnerGUID`	
`kDS1AttrPIDValue`	
`kDS1AttrPluginIndex`	
`kDS1AttrPrimaryComputerGUID`	
`kDS1AttrPrimaryComputerList`	
`kDS1AttrProcessName`	
`kDS1AttrProtocolNumber`	
`kDS1AttrRecRefCount`	
`kDS1AttrRefNumTableList`	
`kDS1AttrRPCNumber`	
`kDS1AttrTotalRefCount`	
`kDS1AttrVersion`	
`kDSNAttrAttributeTypes`	
`kDSNAttrAttrListRefs`	
`kDSNAttrAttrListValueRefs`	
`kDSNAttrAutomountInformation`	

`kDSNAttrCompany`	
`kDSNAttrDirRefs`	
`kDSNAttrEMailContacts`	
`kDSNAttrGroupServices`	
`kDSNAttrHomePhoneNumber`	
`kDSNAttrIPAddressAndENetAddress`	
`kDSNAttrIPv6Address`	
`kDSNAttrJPEGPhoto`	
`kDSNAttrMapCoordinates`	
`kDSNAttrMapURI`	
`kDSNAttrNetGroupTriplet`	
`kDSNAttrNodeRefs`	
`kDSNAttrOrganizationInfo`	
`kDSNAttrPhoneContacts`	
`kDSNAttrPostalAddressContacts`	
`kDSNAttrRecRefs`	
`kDSNAttrRelationships`	
`kDSNAttrResourceInfo`	
`kDSNAttrResourceType`	
`kDSNAttrServicesLocator`	
`kDSStdAuthGetMethodsForUser`	
`kDSStdAuthKerberosTickets`	
`kDSStdAuthNTLMv2WithSessionKey`	
`kDSStdAuthSMB_NT_WithUserSessionKey`	
`kDSStdMachDebugPortName`	
`kDSStdMachDSLookupPortName`	
`kDSStdMachLocalPortName`	
`kDSStdRecordTypeAttributeTypes`	

`kDSStdRecordTypeAugments`	
`kDSStdRecordTypeAutomount`	
`kDSStdRecordTypeAutomountMap`	
`kDSStdRecordTypeComputerGroups`	
`kDSStdRecordTypePlugins`	
`kDSStdRecordTypePresetComputerGroups`	
`kDSStdRecordTypePresetComputers`	
`kDSStdRecordTypeRecordTypes`	
`kDSStdRecordTypeRefTableEntries`	
`kDSStdRecordTypeResources`	

DirServicesTypes.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`Boolean`	
`eDSCacheNodeName`	
`eDSInvalidFilePath`	
`eDSLocalDSDaemonInUse`	
`eDSNormalDSDaemonInUse`	
`eDSRecordTypeDisabled`	
`FourCharCode`	Represents a type used by the Movie Toolkit API.
`OptionBits`	Represents a type used by the Movie Controller API.
`SInt16`	
`SInt32`	
`SInt8`	
`UInt16`	

UInt32	
UInt8	Define numeric values in QuickTime programming.

DirServicesUtils.h

Functions

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

dsAppendAuthBuffer	
dsAppendAuthBufferWithAuthorityAttribute	
dsAppendAuthBufferWithAuthorityStrings	
dsFillAuthBuffer	
dsServiceInformationAllocate	

10.4 Symbol Changes

This article lists the symbols added to `DirectoryService.framework` in Mac OS X v10.4.

C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

DirServices.h

Functions

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`dsDoMultipleAttributeValueSearch`	
`dsDoMultipleAttributeValueSearchWithData`	
`dsGetRecordAttributeValueByValue`	
`dsSetAttributeValues`	

DirServicesConst.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`kDS1AttrAuthorityRevocationList`	
`kDS1AttrBootFile`	
`kDS1AttrCACertificate`	
`kDS1AttrCategory`	
`kDS1AttrCertificateRevocationList`	

`kDS1AttrContactPerson`	
`kDS1AttrCreationTimestamp`	
`kDS1AttrCrossCertificatePair`	
`kDS1AttrDateRecordCreated`	
`kDS1AttrKerberosRealm`	
`kDS1AttrModificationTimestamp`	
`kDS1AttrNeighborhoodType`	
`kDS1AttrNetworkView`	
`kDS1AttrNTDomainComputerAccount`	
`kDS1AttrOwner`	
`kDS1AttrPrimaryNTDomain`	
`kDS1AttrSMBPrimaryGroupSID`	
`kDS1AttrSMBSID`	
`kDS1AttrTimeToLive`	
`kDS1AttrUserCertificate`	
`kDS1AttrUserPKCS12Data`	
`kDS1AttrUserSMIMECertificate`	
`kDS1AttrWeblogURI`	
`kDSNAttrAccessControlEntry`	
`kDSNAttrComputerAlias`	
`kDSNAttrGroupMembers`	
`kDSNAttrMachineServes`	
`kDSNAttrNeighborhoodAlias`	
`kDSNAttrNestedGroups`	
`kDSNAttrNodePathXMLPlist`	
`kDSNAttrSubNodes`	
`kDSStdAuthNewUserWithPolicy`	
`kDSStdAuthNTLMv2`	

kDSStdAuthSetLMHash	
kDSStdAuthSetNTHash	
kDSStdAuthSMBNTv2UserSessionKey	
kDSStdRecordTypeAccessControls	
kDSStdRecordTypeAll	
kDSStdRecordTypeCertificateAuthorities	
kDSStdRecordTypeFileMakerServers	
kDSStdRecordTypeNeighborhoods	
kDSValueNSLDynamicNeighborhoodType	
kDSValueNSLLocalNeighborhoodType	
kDSValueNSLStaticNeighborhoodType	
kDSValueNSLTopLevelNeighborhoodType	

DirServicesTypes.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| eDSAuthMasterUnreachable | |

DirServicesUtils.h

Functions

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| dsAllocStringsFromList | |
| dsCopyDirStatusName | |

C Symbols

10.3 Symbol Changes

This article lists the symbols added to `DirectoryService.framework` in Mac OS X v10.3.

C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

DirServices.h

Functions

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`dsDoDirNodeAuthOnRecordType`

DirServicesConst.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`kDS1AttrAlternateDatastoreLocation`
`kDS1AttrCopyTimestamp`
`kDS1AttrDNSDomain`
`kDS1AttrDNSNameServer`
`kDS1AttrHomeDirectorySoftQuota`
`kDS1AttrKDCConfigData`
`kDS1AttrNote`
`kDS1AttrOriginalNFSHomeDirectory`

`kDS1AttrOriginalNodeName`	
`kDS1AttrPasswordPolicyOptions`	
`kDS1AttrPasswordServerList`	
`kDS1AttrPrinter1284DeviceID`	
`kDS1AttrPrinterLPRHost`	
`kDS1AttrPrinterLPRQueue`	
`kDS1AttrPrinterMakeAndModel`	
`kDS1AttrPrinterType`	
`kDS1AttrPrinterURI`	
`kDS1AttrRealUserID`	
`kDS1AttrRelativeDNPrefix`	
`kDS1AttrSMBAcctFlags`	
`kDS1AttrSMBGroupRID`	
`kDS1AttrSMBHome`	
`kDS1AttrSMBHomeDrive`	
`kDS1AttrSMBKickoffTime`	
`kDS1AttrSMBLogoffTime`	
`kDS1AttrSMBLogonTime`	
`kDS1AttrSMBProfilePath`	
`kDS1AttrSMBPWDLastSet`	
`kDS1AttrSMBRID`	
`kDS1AttrSMBScriptPath`	
`kDS1AttrSMBUserWorkstations`	
`kDS1AttrXMLPlist`	
`kDSNAttrBuilding`	
`kDSNAttrCountry`	
`kDSNAttrDepartment`	
`kDSNAttrFaxNumber`	

`kDSNAttrIMHandle`	
`kDSNAttrJobTitle`	
`kDSNAttrKDCAuthKey`	
`kDSNAttrKeywords`	
`kDSNAttrLDAPReadReplicas`	
`kDSNAttrLDAPWriteReplicas`	
`kDSNAttrMCXSettings`	
`kDSNAttrMobileNumber`	
`kDSNAttrNamePrefix`	
`kDSNAttrNameSuffix`	
`kDSNAttrNickName`	
`kDSNAttrOriginalHomeDirectory`	
`kDSNAttrPagerNumber`	
`kDSNAttrPrinterXRISupported`	
`kDSNAttrStreet`	
`kDSStdAuthCHAP`	
`kDSStdAuthGetEffectivePolicy`	
`kDSStdAuthGetKerberosPrincipal`	
`kDSStdAuthMPPEMasterKeys`	
`kDSStdAuthMSCHAP1`	
`kDSStdAuthReadSecureHash`	
`kDSStdAuthSecureHash`	
`kDSStdAuthSetPolicyAsRoot`	
`kDSStdAuthSetWorkstationPasswd`	
`kDSStdAuthSMB_NT_UserSessionKey`	
`kDSStdAuthSMBWorkstationCredentialSessionKey`	
`kDSStdAuthWithAuthorizationRef`	
`kDSStdAuthWriteSecureHash`	

`kDSStdMachPortName`	
`kDSStdRecordTypeAutoServerSetup`	
`kDSStdRecordTypeLocations`	
`kDSStdRecordTypePasswordServer`	
`kDSStdRecordTypePeople`	
`kDSStdRecordTypeSharePoints`	
`kDSTagAuthAuthorityBasic`	
`kDSTagAuthAuthorityBetterHashOnly`	
`kDSTagAuthAuthorityDisabledUser`	
`kDSTagAuthAuthorityKerberosv5`	
`kDSTagAuthAuthorityLocalCachedUser`	
`kDSTagAuthAuthorityLocalWindowsHash`	
`kDSTagAuthAuthorityPasswordServer`	
`kDSTagAuthAuthorityShadowHash`	
`kDSValueAuthAuthorityDisabledUser`	
`kDSValueAuthAuthorityKerberosv5`	
`kDSValueAuthAuthorityLocalCachedUser`	
`kDSValueAuthAuthorityShadowHash`	
`kDSValueNonCryptPasswordMarker`	

DirServicesTypes.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`eDSAuthInvalidComputer`	Attempt to log in from the wrong computer.
`eDSAuthInvalidLogonHours`	Attempt to log in at an inappropriate time.
`eDSAuthPasswordChangeTooSoon`	Attempt to change a password occurred too soon.

eDSRefTableCSBPAllocError	Reference table client side buffer parsing (CSBP) error occurred.
eDSRefTableEntryNilError	Reference table error occurred.
eDSRefTableFWAllocError	Reference table allocation error occurred.
eDSRefTableIndexOutOfBoundsError	
eDSRefTableNilError	Reference table error occurred.

DirServicesUtils.h

Functions

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

dsParseAuthAuthority	

10.2 Symbol Changes

This article lists the symbols added to `DirectoryService.framework` in Mac OS X v10.2.

C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

DirServices.h

Functions

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`dsOpenDirServiceProxy`

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`DSPROXY`

DirServicesConst.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`kDS1AttrAdminLimits`
`kDS1AttrENetAddress`
`kDS1AttrFirstName`
`kDS1AttrHomeDirectoryQuota`

kDS1AttrHomeLocOwner	
kDS1AttrLastName	
kDS1AttrLocation	
kDS1AttrMCXFlags	
kDS1AttrMCXSettings	
kDS1AttrMiddleName	
kDS1AttrPasswordServerLocation	
kDS1AttrPicture	
kDS1AttrPort	
kDS1AttrPresetUserIsAdmin	
kDS1AttrPrintServiceUserData	
kDS1AttrServiceType	
kDS1AttrSetupAdvertising	
kDS1AttrSetupAutoRegister	
kDS1AttrSetupLocation	
kDS1AttrSetupOccupation	
kDS1StandardAttrHomeLocOwner	
kDSNAttrAddressLine1	
kDSNAttrAddressLine2	
kDSNAttrAddressLine3	
kDSNAttrAreaCode	
kDSNAttrAuthenticationAuthority	
kDSNAttrBootParams	
kDSNAttrCity	
kDSNAttrComputers	
kDSNAttrNetGroups	
kDSNAttrOrganizationName	
kDSNAttrPostalCode	

`kDSNAttrState`	
`kDSStdAuth2WayRandomChangePasswd`	
`kDSStdAuthCRAM_MD5`	
`kDSStdAuthDeleteUser`	
`kDSStdAuthDIGEST_MD5`	
`kDSStdAuthGetGlobalPolicy`	
`kDSStdAuthGetPolicy`	
`kDSStdAuthGetUserData`	
`kDSStdAuthGetUserName`	
`kDSStdAuthMASKE_A`	
`kDSStdAuthMASKE_B`	
`kDSStdAuthMSCHAP2`	
`kDSStdAuthNewUser`	
`kDSStdAuthSetGlobalPolicy`	
`kDSStdAuthSetPolicy`	
`kDSStdAuthSetUserData`	
`kDSStdAuthSetUserName`	
`kDSStdRecordTypeBootp`	
`kDSStdRecordTypeComputerLists`	
`kDSStdRecordTypeComputers`	
`kDSStdRecordTypeEthernets`	
`kDSStdRecordTypeHostServices`	
`kDSStdRecordTypeNetDomains`	
`kDSStdRecordTypeNetGroups`	
`kDSStdRecordTypePresetComputerLists`	
`kDSStdRecordTypePresetGroups`	
`kDSStdRecordTypePresetUsers`	
`kDSStdRecordTypePrintServiceUser`	

`kDSValueAuthAuthorityBasic`	
`kDSValueAuthAuthorityDefault`	
`kDSValueAuthAuthorityLocalWindowsHash`	
`kDSValueAuthAuthorityPasswordServerPrefix`	

DirServicesTypes.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`eDSAttributeValueNotFound`	
`eDSAuthAccountDisabled`	
`eDSAuthAccountExpired`	
`eDSAuthAccountInactive`	
`eDSAuthNewPasswordRequired`	
`eDSAuthPasswordExpired`	
`eDSAuthPasswordNeedsDigit`	
`eDSAuthPasswordNeedsLetter`	
`eDSAuthPasswordQualityCheckFailed`	
`eDSAuthPasswordTooLong`	
`eDSAuthPasswordTooShort`	
`eDSCompoundExpression`	Accommodates an attribute search based on a pre-built compound expression.
`eDSDefaultNetworkNodes`	Matches the default network node.
`eDSiCompoundExpression`	Accommodates an attribute search based on a pre-built compound expression (case insensitive).
`eDSIPUnreachable`	No response from the server at the specified IP address.
`eDSNetworkSearchNodeName`	Searches across all the nodes returned by eDSDefaultNetworkNodes.
`eDSRefTableError`	Reference table error occurred.

`eDSSchemaError`	
`eDSTCPReceiveError`	Error occured when receiving data from a remote server.
`eDSTCPSendError`	Error occurred when sending data to a remote server.
`eDSTCPVersionMismatch`	Mismatch of TCP versions occurred.
`eDSUnknownHost`	Specified server could not be found.
`eDSVersionMismatch`	

10.1 Symbol Changes

This article lists the symbols added to `DirectoryService.framework` in Mac OS X v10.1.

C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

DirServicesConst.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

`kDS1AttrChange`	
`kDS1AttrExpire`	
`kDS1AttrNFSHomeDirectory`	
`kDS1AttrPasswordPlus`	
`kDS1AttrVFSDumpFreq`	
`kDS1AttrVFSLinkDir`	
`kDS1AttrVFSPassNo`	
`kDS1AttrVFSType`	
`kDSNAttrVFSOpts`	

Document Revision History

This table describes the changes to *Directory Service Reference Update*.

Date	Notes
2007-05-02	New document that summarizes the symbols introduced in the Directory Service framework.