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# System Configuration Reference Update

[Networking](#) > Darwin



2007-07-18



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# Introduction to System Configuration Reference Update

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This document summarizes the symbols that have been added to the System Configuration 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 *System Configuration Framework Reference*



# 10.5 Symbol Changes

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This article lists the symbols added to `SystemConfiguration.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.

### SCNetworkConfiguration.h

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#### Functions

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

SCBondInterfaceCopyAll	
SCBondInterfaceCopyAvailableMemberInterfaces	
SCBondInterfaceCopyStatus	
SCBondInterfaceCreate	
SCBondInterfaceGetMemberInterfaces	
SCBondInterfaceGetOptions	
SCBondInterfaceRemove	
SCBondInterfaceSetLocalizedDisplayName	
SCBondInterfaceSetMemberInterfaces	
SCBondInterfaceSetOptions	
SCBondStatusGetInterfaceStatus	
SCBondStatusGetMemberInterfaces	
SCBondStatusGetTypeID	
SCNetworkInterfaceCopyMediaOptions	
SCNetworkInterfaceCopyMediaSubTypeOptions	

## 10.5 Symbol Changes

SCNetworkInterfaceCopyMediaSubTypes	
SCNetworkInterfaceCopyMTU	
SCNetworkInterfaceForceConfigurationRefresh	
SCNetworkInterfaceGetExtendedConfiguration	
SCNetworkInterfaceSetExtendedConfiguration	
SCNetworkInterfaceSetMediaOptions	
SCNetworkInterfaceSetMTU	
SCNetworkServiceEstablishDefaultConfiguration	
SCNetworkSetContainsInterface	
SCVLANInterfaceCopyAll	
SCVLANInterfaceCopyAvailablePhysicalInterfaces	
SCVLANInterfaceCreate	
SCVLANInterfaceGetOptions	
SCVLANInterfaceGetPhysicalInterface	
SCVLANInterfaceGetTag	
SCVLANInterfaceRemove	
SCVLANInterfaceSetLocalizedDisplayName	
SCVLANInterfaceSetOptions	
SCVLANInterfaceSetPhysicalInterfaceAndTag	

## 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.

kSCBondStatusDeviceAggregationStatus	
kSCBondStatusDeviceCollecting	
kSCBondStatusDeviceDistributing	
kSCBondStatusLinkInvalid	
kSCBondStatusNoPartner	
kSCBondStatusNotInActiveGroup	



kSCBondStatusOK	
kSCBondStatusUnknown	
kSCNetworkInterfaceTypeWWAN	
kSCNetworkProtocolTypeSMB	
SCBondInterfaceRef	
SCBondStatusRef	
SCVLANInterfaceRef	

## SCPreferences.h

---

### Functions

---

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

SCPreferencesCreateWithAuthorization	
--------------------------------------	--

## SCSchemaDefinitions.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.

kSCEntNetIPSec	
kSCEntNetIPSec	
kSCEntNetSMB	
kSCEntNetSMB	
kSCPropNetIPSecAuthenticationMethod	
kSCPropNetIPSecAuthenticationMethod	
kSCPropNetIPSecLocalCertificate	
kSCPropNetIPSecLocalCertificate	
kSCPropNetIPSecLocalIdentifier	

## 10.5 Symbol Changes

kSCPropNetIPSecLocalIdentifier	
kSCPropNetIPSecLocalIdentifierType	
kSCPropNetIPSecLocalIdentifierType	
kSCPropNetIPSecSharedSecret	
kSCPropNetIPSecSharedSecret	
kSCPropNetIPSecSharedSecretEncryption	
kSCPropNetIPSecSharedSecretEncryption	
kSCPropNetModemAccessPointName	
kSCPropNetModemAccessPointName	
kSCPropNetModemConnectionPersonality	
kSCPropNetModemConnectionPersonality	
kSCPropNetModemDeviceContextID	
kSCPropNetModemDeviceContextID	
kSCPropNetModemDeviceModel	
kSCPropNetModemDeviceModel	
kSCPropNetModemDeviceVendor	
kSCPropNetModemDeviceVendor	
kSCPropNetSMBNetBIOSName	
kSCPropNetSMBNetBIOSName	
kSCPropNetSMBNetBIOSNodeType	
kSCPropNetSMBNetBIOSNodeType	
kSCPropNetSMBNetBIOSScope	
kSCPropNetSMBNetBIOSScope	
kSCPropNetSMBWINSAddresses	
kSCPropNetSMBWINSAddresses	
kSCPropNetSMBWorkgroup	
kSCPropNetSMBWorkgroup	
kSCValNetAirPortJoinModeRanked	

kSCValNetAirPortJoinModeRanked	
kSCValNetIPSecAuthenticationMethodCertificate	
kSCValNetIPSecAuthenticationMethodCertificate	
kSCValNetIPSecAuthenticationMethodSharedSecret	
kSCValNetIPSecAuthenticationMethodSharedSecret	
kSCValNetIPSecLocalIdentifierTypeKeyID	
kSCValNetIPSecLocalIdentifierTypeKeyID	
kSCValNetIPSecSharedSecretEncryptionKeychain	
kSCValNetIPSecSharedSecretEncryptionKeychain	
kSCValNetPPPAuthPasswordEncryptionToken	
kSCValNetPPPAuthPasswordEncryptionToken	
kSCValNetSMBNetBIOSNodeTypeBroadcast	
kSCValNetSMBNetBIOSNodeTypeBroadcast	
kSCValNetSMBNetBIOSNodeTypeHybrid	
kSCValNetSMBNetBIOSNodeTypeHybrid	
kSCValNetSMBNetBIOSNodeTypeMixed	
kSCValNetSMBNetBIOSNodeTypeMixed	
kSCValNetSMBNetBIOSNodeTypePeer	
kSCValNetSMBNetBIOSNodeTypePeer	

## SystemConfiguration.h

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### Functions

---

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

SCCopyLastError	
-----------------	--

### 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.

kCFErrorDomainSystemConfiguration
-----------------------------------

# 10.4 Symbol Changes

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This article lists the symbols added to `SystemConfiguration.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.

### SCDynamicStore.h

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#### Functions

---

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

SCDynamicStoreCreateWithOptions	
---------------------------------	--

#### 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.

kSCDynamicStoreUseSessionKeys	
-------------------------------	--

### SCNetworkConfiguration.h

---

#### Functions

---

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

SCNetworkInterfaceCopyAll	
---------------------------	--

SCNetworkInterfaceCreateWithInterface	
---------------------------------------	--

SCNetworkInterfaceGetBSDName	
------------------------------	--

SCNetworkInterfaceGetConfiguration	
------------------------------------	--

## 10.4 Symbol Changes

SCNetworkInterfaceGetHardwareAddressString	
SCNetworkInterfaceGetInterface	
SCNetworkInterfaceGetInterfaceType	
SCNetworkInterfaceGetLocalizedDisplayName	
SCNetworkInterfaceGetSupportedInterfaceTypes	
SCNetworkInterfaceGetSupportedProtocolTypes	
SCNetworkInterfaceGetTypeID	
SCNetworkInterfaceSetConfiguration	
SCNetworkProtocolGetConfiguration	
SCNetworkProtocolGetEnabled	
SCNetworkProtocolGetProtocolType	
SCNetworkProtocolGetTypeID	
SCNetworkProtocolSetConfiguration	
SCNetworkProtocolSetEnabled	
SCNetworkServiceAddProtocolType	
SCNetworkServiceCopy	
SCNetworkServiceCopyAll	
SCNetworkServiceCopyProtocol	
SCNetworkServiceCopyProtocols	
SCNetworkServiceCreate	
SCNetworkServiceGetEnabled	
SCNetworkServiceGetInterface	
SCNetworkServiceGetName	
SCNetworkServiceGetServiceID	
SCNetworkServiceGetTypeID	
SCNetworkServiceRemove	
SCNetworkServiceRemoveProtocolType	
SCNetworkServiceSetEnabled	

## 10.4 Symbol Changes

SCNetworkServiceSetName	
SCNetworkSetAddService	
SCNetworkSetCopy	
SCNetworkSetCopyAll	
SCNetworkSetCopyCurrent	
SCNetworkSetCopyServices	
SCNetworkSetCreate	
SCNetworkSetGetName	
SCNetworkSetGetServiceOrder	
SCNetworkSetGetSetID	
SCNetworkSetGetTypeID	
SCNetworkSetRemove	
SCNetworkSetRemoveService	
SCNetworkSetSetCurrent	
SCNetworkSetSetName	
SCNetworkSetSetServiceOrder	

## 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.

kSCNetworkInterfaceIPv4	
kSCNetworkInterfaceType6to4	
kSCNetworkInterfaceTypeBluetooth	
kSCNetworkInterfaceTypeBond	
kSCNetworkInterfaceTypeEthernet	
kSCNetworkInterfaceTypeFireWire	
kSCNetworkInterfaceTypeIEEE80211	
kSCNetworkInterfaceTypeIPv4	
kSCNetworkInterfaceTypeIrDA	

kSCNetworkInterfaceTypeL2TP	
kSCNetworkInterfaceTypeModem	
kSCNetworkInterfaceTypePPP	
kSCNetworkInterfaceTypePPTP	
kSCNetworkInterfaceTypeSerial	
kSCNetworkInterfaceTypeVLAN	
kSCNetworkProtocolTypeAppleTalk	
kSCNetworkProtocolTypeDNS	
kSCNetworkProtocolTypeIPv4	
kSCNetworkProtocolTypeIPv6	
kSCNetworkProtocolTypeProxies	
SCNetworkInterfaceRef	
SCNetworkProtocolRef	
SCNetworkServiceRef	
SCNetworkSetRef	

## SCPreferences.h

---

### Functions

---

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

SCPreferencesScheduleWithRunLoop	
SCPreferencesSetCallback	
SCPreferencesSynchronize	
SCPreferencesUnscheduleFromRunLoop	

### 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.



kSCPreferencesNotificationApply	
kSCPreferencesNotificationCommit	
SCPreferencesCallBack	
SCPreferencesContext	
SCPreferencesNotification	

## SCSchemaDefinitions.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.

kSCPropNetDNSOptions	
kSCPropNetDNSOptions	
kSCPropNetDNSSearchOrder	
kSCPropNetDNSSearchOrder	
kSCPropNetDNSServerPort	
kSCPropNetDNSServerPort	
kSCPropNetDNSServerTimeout	
kSCPropNetDNSServerTimeout	
kSCPropNetDNSSupplementalMatchDomains	
kSCPropNetDNSSupplementalMatchDomains	
kSCPropNetDNSSupplementalMatchOrders	
kSCPropNetDNSSupplementalMatchOrders	
kSCPropNetPPPCCMPPE128Enabled	
kSCPropNetPPPCCMPPE128Enabled	
kSCPropNetPPPCCMPPE40Enabled	
kSCPropNetPPPCCMPPE40Enabled	
kSCPropNetPPPDisconnectOnFastUserSwitch	
kSCPropNetPPPDisconnectOnFastUserSwitch	

## 10.4 Symbol Changes

kSCPropNetPPPIPCUsePeerDNS	
kSCPropNetPPPIPCUsePeerDNS	
kSCPropNetProxiesExcludeSimpleHostnames	
kSCPropNetProxiesExcludeSimpleHostnames	
kSCPropNetProxiesProxyAutoDiscoveryEnable	
kSCPropNetProxiesProxyAutoDiscoveryEnable	
kSCPropUsersConsoleUserGID	
kSCPropUsersConsoleUserName	
kSCPropUsersConsoleUserUID	
SC_SCHEMA_KV	

# 10.3 Symbol Changes

---

This article lists the symbols added to `SystemConfiguration.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.

### SCNetwork.h

---

#### Functions

---

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

<code>SCNetworkInterfaceRefreshConfiguration</code>	
---	--

#### 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.

<code>kSCNetworkFlagsIsDirect</code>	
--------------------------------------	--

<code>kSCNetworkFlagsIsLocalAddress</code>	
--	--

### SCNetworkConnection.h

---

#### Functions

---

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

<code>SCNetworkConnectionCopyExtendedStatus</code>	
--	--

<code>SCNetworkConnectionCopyServiceID</code>	
---	--

<code>SCNetworkConnectionCopyStatistics</code>	
--	--

## 10.3 Symbol Changes

SCNetworkConnectionCopyUserOptions	
SCNetworkConnectionCopyUserPreferences	
SCNetworkConnectionCreateWithServiceID	
SCNetworkConnectionGetStatus	
SCNetworkConnectionGetTypeID	
SCNetworkConnectionScheduleWithRunLoop	
SCNetworkConnectionStart	
SCNetworkConnectionStop	
SCNetworkConnectionUnscheduleFromRunLoop	

## 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.

kSCNetworkConnectionBytesIn	
kSCNetworkConnectionBytesOut	
kSCNetworkConnectionConnected	
kSCNetworkConnectionConnecting	
kSCNetworkConnectionDisconnected	
kSCNetworkConnectionDisconnecting	
kSCNetworkConnectionErrorsIn	
kSCNetworkConnectionErrorsOut	
kSCNetworkConnectionInvalid	
kSCNetworkConnectionPacketsIn	
kSCNetworkConnectionPacketsOut	
kSCNetworkConnectionPPPAuthenticating	
kSCNetworkConnectionPPPConnected	
kSCNetworkConnectionPPPConnectingLink	
kSCNetworkConnectionPPPDialOnTraffic	
kSCNetworkConnectionPPPDisconnected	

## 10.3 Symbol Changes

kSCNetworkConnectionPPDisconnectingLink	
kSCNetworkConnectionPPPHoldingLinkOff	
kSCNetworkConnectionPPPInitializing	
kSCNetworkConnectionPPPNegotiatingLink	
kSCNetworkConnectionPPPNegotiatingNetwork	
kSCNetworkConnectionPPPSuspended	
kSCNetworkConnectionPPPTerminating	
kSCNetworkConnectionPPPWaitingForCallback	
kSCNetworkConnectionPPPWaitingForRedial	
SCNetworkConnectionCallback	
SCNetworkConnectionContext	
SCNetworkConnectionPPPStatus	
SCNetworkConnectionRef	
SCNetworkConnectionStatus	

## SCNetworkReachability.h

---

### Functions

---

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

SCNetworkReachabilityCreateWithAddress	
SCNetworkReachabilityCreateWithAddressPair	
SCNetworkReachabilityCreateWithName	
SCNetworkReachabilityGetFlags	
SCNetworkReachabilityGetTypeID	
SCNetworkReachabilityScheduleWithRunLoop	
SCNetworkReachabilitySetCallback	
SCNetworkReachabilityUnscheduleFromRunLoop	

## 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.

SCNetworkReachabilityCallback	
SCNetworkReachabilityContext	
SCNetworkReachabilityRef	

## SCSchemaDefinitions.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.

kSCCompAnyRegex	
kSCCompGlobal	
kSCCompHostNames	
kSCCompInterface	
kSCCompNetwork	
kSCCompService	
kSCCompSystem	
kSCCompUsers	
kSCDynamicStoreDomainFile	
kSCDynamicStoreDomainPlugin	
kSCDynamicStoreDomainPrefs	
kSCDynamicStoreDomainSetup	
kSCDynamicStoreDomainState	
kSCDynamicStorePropNetInterfaces	
kSCDynamicStorePropNetPrimaryInterface	
kSCDynamicStorePropNetPrimaryService	
kSCDynamicStorePropNetServiceIDs	

### 10.3 Symbol Changes

kSCDynamicStorePropSetupCurrentSet	
kSCDynamicStorePropSetupLastUpdated	
kSCEntNet6to4	
kSCEntNetAirPort	
kSCEntNetAppleTalk	
kSCEntNetDHCP	
kSCEntNetDNS	
kSCEntNetEthernet	
kSCEntNetFireWire	
kSCEntNetInterface	
kSCEntNetIPv4	
kSCEntNetIPv6	
kSCEntNetL2TP	
kSCEntNetLink	
kSCEntNetModem	
kSCEntNetNetInfo	
kSCEntNetPPP	
kSCEntNetPPPoE	
kSCEntNetPPPSerial	
kSCEntNetPPTP	
kSCEntNetProxies	
kSCEntUsersConsoleUser	
kSCPrefCurrentSet	
kSCPrefNetworkServices	
kSCPrefSets	
kSCPrefSystem	
kSCPropInterfaceName	
kSCPropMACAddress	

### 10.3 Symbol Changes

kSCPropNet6to4Relay	
kSCPropNetAirPortAllowNetCreation	
kSCPropNetAirPortAuthPassword	
kSCPropNetAirPortAuthPasswordEncryption	
kSCPropNetAirPortJoinMode	
kSCPropNetAirPortPowerEnabled	
kSCPropNetAirPortPreferredNetwork	
kSCPropNetAirPortSavePasswords	
kSCPropNetAppleTalkComputerName	
kSCPropNetAppleTalkComputerNameEncoding	
kSCPropNetAppleTalkConfigMethod	
kSCPropNetAppleTalkDefaultZone	
kSCPropNetAppleTalkNetworkID	
kSCPropNetAppleTalkNetworkRange	
kSCPropNetAppleTalkNodeID	
kSCPropNetAppleTalkSeedNetworkRange	
kSCPropNetAppleTalkSeedZones	
kSCPropNetDNSDomainName	
kSCPropNetDNSSearchDomains	
kSCPropNetDNSServerAddresses	
kSCPropNetDNSSortList	
kSCPropNetEthernetMediaOptions	
kSCPropNetEthernetMediaSubType	
kSCPropNetEthernetMTU	
kSCPropNetInterfaceDeviceName	
kSCPropNetInterfaceHardware	
kSCPropNetInterfaces	
kSCPropNetInterfaceSubType	



### 10.3 Symbol Changes

kSCPropNetInterfaceSupportsModemOnHold	
kSCPropNetInterfaceType	
kSCPropNetIPv4Addresses	
kSCPropNetIPv4BroadcastAddresses	
kSCPropNetIPv4ConfigMethod	
kSCPropNetIPv4DestAddresses	
kSCPropNetIPv4DHCPClientID	
kSCPropNetIPv4Router	
kSCPropNetIPv4SubnetMasks	
kSCPropNetIPv6Addresses	
kSCPropNetIPv6ConfigMethod	
kSCPropNetIPv6DestAddresses	
kSCPropNetIPv6Flags	
kSCPropNetIPv6PrefixLength	
kSCPropNetIPv6Router	
kSCPropNetL2TPIPecSharedSecret	
kSCPropNetL2TPIPecSharedSecretEncryption	
kSCPropNetL2TPTransport	
kSCPropNetLinkActive	
kSCPropNetLinkDetaching	
kSCPropNetLocalHostName	
kSCPropNetModemConnectionScript	
kSCPropNetModemConnectSpeed	
kSCPropNetModemDataCompression	
kSCPropNetModemDialMode	
kSCPropNetModemErrorCorrection	
kSCPropNetModemHoldCallWaitingAudibleAlert	
kSCPropNetModemHoldDisconnectOnAnswer	

### 10.3 Symbol Changes

kSCPropNetModemHoldEnabled	
kSCPropNetModemHoldReminder	
kSCPropNetModemHoldReminderTime	
kSCPropNetModemNote	
kSCPropNetModemPulseDial	
kSCPropNetModemSpeaker	
kSCPropNetModemSpeed	
kSCPropNetNetInfoBindingMethods	
kSCPropNetNetInfoBroadcastServerTag	
kSCPropNetNetInfoServerAddresses	
kSCPropNetNetInfoServerTags	
kSCPropNetOverridePrimary	
kSCPropNetPPPAACSPEnabled	
kSCPropNetPPPAuthEAPPlugins	
kSCPropNetPPPAuthName	
kSCPropNetPPPAuthPassword	
kSCPropNetPPPAuthPasswordEncryption	
kSCPropNetPPPAuthPrompt	
kSCPropNetPPPAuthProtocol	
kSCPropNetPPPCCPEnabled	
kSCPropNetPPPCommAlternateRemoteAddress	
kSCPropNetPPPCommConnectDelay	
kSCPropNetPPPCommDisplayTerminalWindow	
kSCPropNetPPPCommRedialCount	
kSCPropNetPPPCommRedialEnabled	
kSCPropNetPPPCommRedialInterval	
kSCPropNetPPPCommRemoteAddress	
kSCPropNetPPPCommTerminalScript	

### 10.3 Symbol Changes

kSCPropNetPPPCommUseTerminalScript	
kSCPropNetPPPConnectTime	
kSCPropNetPPPDeviceLastCause	
kSCPropNetPPPDialOnDemand	
kSCPropNetPPPDisconnectOnIdle	
kSCPropNetPPPDisconnectOnIdleTimer	
kSCPropNetPPPDisconnectOnLogout	
kSCPropNetPPPDisconnectOnSleep	
kSCPropNetPPPDisconnectTime	
kSCPropNetPPPIdleReminder	
kSCPropNetPPPIdleReminderTimer	
kSCPropNetPPPIPCPCompressionVJ	
kSCPropNetPPPLastCause	
kSCPropNetPPPLCPCompressionACField	
kSCPropNetPPPLCPCompressionPField	
kSCPropNetPPPLCPEchoEnabled	
kSCPropNetPPPLCPEchoFailure	
kSCPropNetPPPLCPEchoInterval	
kSCPropNetPPPLCPMRU	
kSCPropNetPPPLCPMTU	
kSCPropNetPPPLCPReceiveACCM	
kSCPropNetPPPLCPTransmitACCM	
kSCPropNetPPPLogfile	
kSCPropNetPPPOverridePrimary	
kSCPropNetPPPPlugins	
kSCPropNetPPPRetryConnectTime	
kSCPropNetPPPSessionTimer	
kSCPropNetPPPStatus	

### 10.3 Symbol Changes

kSCPropNetPPPUseSessionTimer	
kSCPropNetPPPVerboseLogging	
kSCPropNetProxiesExceptionsList	
kSCPropNetProxiesFTPEnable	
kSCPropNetProxiesFTPPassive	
kSCPropNetProxiesFTPPort	
kSCPropNetProxiesFTPProxy	
kSCPropNetProxiesGopherEnable	
kSCPropNetProxiesGopherPort	
kSCPropNetProxiesGopherProxy	
kSCPropNetProxiesHTTPEnable	
kSCPropNetProxiesHTTPPort	
kSCPropNetProxiesHTTPProxy	
kSCPropNetProxiesHTTPSEnable	
kSCPropNetProxiesHTTPSPort	
kSCPropNetProxiesHTTPSPProxy	
kSCPropNetProxiesProxyAutoConfigEnable	
kSCPropNetProxiesProxyAutoConfigURLString	
kSCPropNetProxiesRTSPEnable	
kSCPropNetProxiesRTSPPort	
kSCPropNetProxiesRTSPProxy	
kSCPropNetProxiesSOCKSEnable	
kSCPropNetProxiesSOCKSPort	
kSCPropNetProxiesSOCKSPProxy	
kSCPropNetServiceOrder	
kSCPropSystemComputerName	
kSCPropSystemComputerNameEncoding	
kSCPropUserDefinedName	

### 10.3 Symbol Changes

kSCPropVersion	
kSCResvInactive	
kSCResvLink	
kSCValNetAirPortAuthPasswordEncryptionKeychain	
kSCValNetAirPortJoinModeAutomatic	
kSCValNetAirPortJoinModePreferred	
kSCValNetAirPortJoinModeRecent	
kSCValNetAirPortJoinModeStrongest	
kSCValNetAppleTalkConfigMethodNode	
kSCValNetAppleTalkConfigMethodRouter	
kSCValNetAppleTalkConfigMethodSeedRouter	
kSCValNetInterfaceSubTypeL2TP	
kSCValNetInterfaceSubTypePPPoE	
kSCValNetInterfaceSubTypePPPSerial	
kSCValNetInterfaceSubTypePPTP	
kSCValNetInterfaceType6to4	
kSCValNetInterfaceTypeEthernet	
kSCValNetInterfaceTypeFireWire	
kSCValNetInterfaceTypePPP	
kSCValNetIPv4ConfigMethodBOOTP	
kSCValNetIPv4ConfigMethodDHCP	
kSCValNetIPv4ConfigMethodINFORM	
kSCValNetIPv4ConfigMethodLinkLocal	
kSCValNetIPv4ConfigMethodManual	
kSCValNetIPv4ConfigMethodPPP	
kSCValNetIPv6ConfigMethod6to4	
kSCValNetIPv6ConfigMethodAutomatic	
kSCValNetIPv6ConfigMethodManual	

kSCValNetIPv6ConfigMethodRouterAdvertisement	
kSCValNetL2TPIPsecSharedSecretEncryptionKeychain	
kSCValNetL2TPTransportIP	
kSCValNetL2TPTransportIPsec	
kSCValNetModemDialModeIgnoreDialTone	
kSCValNetModemDialModeManual	
kSCValNetModemDialModeWaitForDialTone	
kSCValNetNetInfoBindingMethodsBroadcast	
kSCValNetNetInfoBindingMethodsDHCP	
kSCValNetNetInfoBindingMethodsManual	
kSCValNetNetInfoDefaultServerTag	
kSCValNetPPPAuthPasswordEncryptionKeychain	
kSCValNetPPPAuthPromptAfter	
kSCValNetPPPAuthPromptBefore	
kSCValNetPPPAuthProtocolCHAP	
kSCValNetPPPAuthProtocolEAP	
kSCValNetPPPAuthProtocolMSCHAP1	
kSCValNetPPPAuthProtocolMSCHAP2	
kSCValNetPPPAuthProtocolPAP	
SC_SCHEMA_DECLARATION	

## SCSchemaDefinitions\_10\_1.h

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### Data Types & Constants

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

kSCEntNet6to4	
kSCEntNetFireWire	
kSCEntNetL2TP	

### 10.3 Symbol Changes

kSCEntNetPPPSerial	
kSCEntNetPPTP	
kSCPropNet6to4Relay	
kSCPropNetIPv6DestAddresses	
kSCPropNetIPv6Flags	
kSCPropNetIPv6PrefixLength	
kSCPropNetIPv6Router	
kSCPropNetL2TPIPecSharedSecret	
kSCPropNetL2TPIPecSharedSecretEncryption	
kSCPropNetL2TPTransport	
kSCPropNetPPPACSPEnabled	
kSCPropNetPPPAuthEAPPlugins	
kSCPropNetPPPAuthPrompt	
kSCPropNetPPPDisconnectTime	
kSCPropNetPPPRetryConnectTime	
kSCPropNetProxiesProxyAutoConfigEnable	
kSCPropNetProxiesProxyAutoConfigURLString	
kSCValNetAirPortAuthPasswordEncryptionKeychain	
kSCValNetAirPortJoinModeAutomatic	
kSCValNetInterfaceSubTypeL2TP	
kSCValNetInterfaceType6to4	
kSCValNetInterfaceTypeFireWire	
kSCValNetIPv6ConfigMethod6to4	
kSCValNetIPv6ConfigMethodAutomatic	
kSCValNetIPv6ConfigMethodManual	
kSCValNetIPv6ConfigMethodRouterAdvertisement	
kSCValNetL2TPIPecSharedSecretEncryptionKeychain	
kSCValNetL2TPTransportIP	

### 10.3 Symbol Changes

kSCValNetL2TPTransportIPSec	
kSCValNetPPPAuthPasswordEncryptionKeychain	
kSCValNetPPPAuthPromptAfter	
kSCValNetPPPAuthPromptBefore	
kSCValNetPPPAuthProtocolEAP	
kSCValNetPPPAuthProtocolMSCHAP1	
kSCValNetPPPAuthProtocolMSCHAP2	



# 10.2 Symbol Changes

---

This article lists the symbols added to `SystemConfiguration.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.

### DHCPClientPreferences.h

---

#### Functions

---

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

DHCPClientPreferencesCopyApplicationOptions	
DHCPClientPreferencesSetApplicationOptions	

### SCDynamicStoreCopyDHCPInfo.h

---

#### Functions

---

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

DHCPInfoGetLeaseStartTime	
DHCPInfoGetOptionData	
SCDynamicStoreCopyDHCPInfo	

## SCDynamicStoreCopySpecific.h

---

### Functions

---

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

SCDynamicStoreCopyLocalHostName	
SCDynamicStoreCopyLocation	

## SCDynamicStoreKey.h

---

### Functions

---

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

SCDynamicStoreKeyCreateHostNames	
SCDynamicStoreKeyCreateLocation	

## SCPreferencesSetSpecific.h

---

### Functions

---

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

SCPreferencesSetLocalHostName	
-------------------------------	--

## SCSchemaDefinitions.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.

kSCCompHostNames	
kSCPropNetAirPortAllowNetCreation	

## 10.2 Symbol Changes

kSCPropNetAirPortJoinMode	
kSCPropNetAirPortSavePasswords	
kSCPropNetAppleTalkNetworkRange	
kSCPropNetEthernetMediaOptions	
kSCPropNetEthernetMediaSubType	
kSCPropNetEthernetMTU	
kSCPropNetInterfaces	
kSCPropNetInterfaceSupportsModemOnHold	
kSCPropNetLinkDetaching	
kSCPropNetLocalHostName	
kSCPropNetModemConnectSpeed	
kSCPropNetModemHoldCallWaitingAudibleAlert	
kSCPropNetModemHoldDisconnectOnAnswer	
kSCPropNetModemHoldEnabled	
kSCPropNetModemHoldReminder	
kSCPropNetModemHoldReminderTime	
kSCPropNetModemNote	
kSCPropNetOverridePrimary	
kSCPropNetPPPCCPEnabled	
kSCPropNetPPPCommUseTerminalScript	
kSCPropNetPPPConnectTime	
kSCPropNetPPPDeviceLastCause	
kSCPropNetPPPDDisconnectOnSleep	
kSCPropNetPPPLastCause	
kSCPropNetPPPPlugins	
kSCPropNetPPPStatus	
kSCPropNetPPPUseSessionTimer	
kSCValNetAirPortJoinModePreferred	

<code>kSCValNetAirPortJoinModeRecent</code>	
<code>kSCValNetAirPortJoinModeStrongest</code>	
<code>kSCValNetInterfaceSubTypePPTP</code>	
<code>kSCValNetIPv4ConfigMethodLinkLocal</code>	

## SystemConfiguration.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.

<code>kSCStatusMaxLink</code>	
-------------------------------	--

# 10.1 Symbol Changes

---

This article lists the symbols added to `SystemConfiguration.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.

### SCDynamicStore.h

---

#### Functions

---

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

SCDynamicStoreAddTemporaryValue	
SCDynamicStoreAddValue	
SCDynamicStoreCopyKeyList	
SCDynamicStoreCopyMultiple	
SCDynamicStoreCopyNotifiedKeys	
SCDynamicStoreCopyValue	
SCDynamicStoreCreate	
SCDynamicStoreCreateRunLoopSource	
SCDynamicStoreGetTypeID	
SCDynamicStoreNotifyValue	
SCDynamicStoreRemoveValue	
SCDynamicStoreSetMultiple	
SCDynamicStoreSetNotificationKeys	
SCDynamicStoreSetValue	

## 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.

SCDynamicStoreCallback	
SCDynamicStoreContext	
SCDynamicStoreRef	

## SCDynamicStoreCopySpecific.h

---

### Functions

---

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

SCDynamicStoreCopyComputerName	
SCDynamicStoreCopyConsoleUser	
SCDynamicStoreCopyProxies	

## SCDynamicStoreKey.h

---

### Functions

---

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

SCDynamicStoreKeyCreate	
SCDynamicStoreKeyCreateComputerName	
SCDynamicStoreKeyCreateConsoleUser	
SCDynamicStoreKeyCreateNetworkGlobalEntity	
SCDynamicStoreKeyCreateNetworkInterface	
SCDynamicStoreKeyCreateNetworkInterfaceEntity	
SCDynamicStoreKeyCreateNetworkServiceEntity	
SCDynamicStoreKeyCreateProxies	

## SCNetwork.h

---

### Functions

---

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

SCNetworkCheckReachabilityByAddress	
SCNetworkCheckReachabilityByName	

### 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.

kSCNetworkFlagsConnectionAutomatic	
kSCNetworkFlagsConnectionRequired	
kSCNetworkFlagsInterventionRequired	
kSCNetworkFlagsReachable	
kSCNetworkFlagsTransientConnection	
SCNetworkConnectionFlags	

## SCPreferences.h

---

### Functions

---

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

SCPreferencesAddValue	
SCPreferencesApplyChanges	
SCPreferencesCommitChanges	
SCPreferencesCopyKeyList	
SCPreferencesCreate	
SCPreferencesGetSignature	
SCPreferencesGetTypeID	

SCPreferencesGetValue	
SCPreferencesLock	
SCPreferencesRemoveValue	
SCPreferencesSetValue	
SCPreferencesUnlock	

## 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.

SCPreferencesRef	
------------------	--

## SCPreferencesPath.h

---

### Functions

---

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

SCPreferencesPathCreateUniqueChild	
SCPreferencesPathGetLink	
SCPreferencesPathGetValue	
SCPreferencesPathRemoveValue	
SCPreferencesPathSetLink	
SCPreferencesPathSetValue	

## SCPreferencesSetSpecific.h

---

### Functions

---

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

SCPreferencesSetComputerName	
------------------------------	--



## SCSchemaDefinitions.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.

kSCCompAnyRegex	
kSCCompGlobal	
kSCCompInterface	
kSCCompNetwork	
kSCCompService	
kSCCompSystem	
kSCCompUsers	
kSCDynamicStoreDomainFile	
kSCDynamicStoreDomainPlugin	
kSCDynamicStoreDomainPrefs	
kSCDynamicStoreDomainSetup	
kSCDynamicStoreDomainState	
kSCDynamicStorePropNetInterfaces	
kSCDynamicStorePropNetPrimaryInterface	
kSCDynamicStorePropNetPrimaryService	
kSCDynamicStorePropNetServiceIDs	
kSCDynamicStorePropSetupCurrentSet	
kSCDynamicStorePropSetupLastUpdated	
kSCEntNetAirPort	
kSCEntNetAppleTalk	
kSCEntNetDHCP	
kSCEntNetDNS	
kSCEntNetEthernet	
kSCEntNetInterface	

## 10.1 Symbol Changes

kSCEntNetIPv4	
kSCEntNetIPv6	
kSCEntNetLink	
kSCEntNetModem	
kSCEntNetNetInfo	
kSCEntNetPPP	
kSCEntNetPPPoE	
kSCEntNetProxies	
kSCEntUsersConsoleUser	
kSCPrefCurrentSet	
kSCPrefNetworkServices	
kSCPrefSets	
kSCPrefSystem	
kSCPropInterfaceName	
kSCPropMACAddress	
kSCPropNetAirPortAuthPassword	
kSCPropNetAirPortAuthPasswordEncryption	
kSCPropNetAirPortPowerEnabled	
kSCPropNetAirPortPreferredNetwork	
kSCPropNetAppleTalkComputerName	
kSCPropNetAppleTalkComputerNameEncoding	
kSCPropNetAppleTalkConfigMethod	
kSCPropNetAppleTalkDefaultZone	
kSCPropNetAppleTalkNetworkID	
kSCPropNetAppleTalkNodeID	
kSCPropNetAppleTalkSeedNetworkRange	
kSCPropNetAppleTalkSeedZones	
kSCPropNetDNSDomainName	

## 10.1 Symbol Changes

kSCPropNetDNSSearchDomains	
kSCPropNetDNSServerAddresses	
kSCPropNetDNSSortList	
kSCPropNetInterfaceDeviceName	
kSCPropNetInterfaceHardware	
kSCPropNetInterfaceSubType	
kSCPropNetInterfaceType	
kSCPropNetIPv4Addresses	
kSCPropNetIPv4BroadcastAddresses	
kSCPropNetIPv4ConfigMethod	
kSCPropNetIPv4DestAddresses	
kSCPropNetIPv4DHCPClientID	
kSCPropNetIPv4Router	
kSCPropNetIPv4SubnetMasks	
kSCPropNetIPv6Addresses	
kSCPropNetIPv6ConfigMethod	
kSCPropNetLinkActive	
kSCPropNetModemConnectionScript	
kSCPropNetModemDataCompression	
kSCPropNetModemDialMode	
kSCPropNetModemErrorCorrection	
kSCPropNetModemPulseDial	
kSCPropNetModemSpeaker	
kSCPropNetModemSpeed	
kSCPropNetNetInfoBindingMethods	
kSCPropNetNetInfoBroadcastServerTag	
kSCPropNetNetInfoServerAddresses	
kSCPropNetNetInfoServerTags	

## 10.1 Symbol Changes

kSCPropNetPPPAuthName	
kSCPropNetPPPAuthPassword	
kSCPropNetPPPAuthPasswordEncryption	
kSCPropNetPPPAuthProtocol	
kSCPropNetPPPCommAlternateRemoteAddress	
kSCPropNetPPPCommConnectDelay	
kSCPropNetPPPCommDisplayTerminalWindow	
kSCPropNetPPPCommRedialCount	
kSCPropNetPPPCommRedialEnabled	
kSCPropNetPPPCommRedialInterval	
kSCPropNetPPPCommRemoteAddress	
kSCPropNetPPPCommTerminalScript	
kSCPropNetPPPDialOnDemand	
kSCPropNetPPPDisconnectOnIdle	
kSCPropNetPPPDisconnectOnIdleTimer	
kSCPropNetPPPDisconnectOnLogout	
kSCPropNetPPPIidleReminder	
kSCPropNetPPPIidleReminderTimer	
kSCPropNetPPPIPCPCompressionVJ	
kSCPropNetPPPLCPCompressionACField	
kSCPropNetPPPLCPCompressionPField	
kSCPropNetPPPLCPEchoEnabled	
kSCPropNetPPPLCPEchoFailure	
kSCPropNetPPPLCPEchoInterval	
kSCPropNetPPPLCPMRU	
kSCPropNetPPPLCPMTU	
kSCPropNetPPPLCPReceiveACCM	
kSCPropNetPPPLCPTransmitACCM	

## 10.1 Symbol Changes

kSCPropNetPPPLogfile	
kSCPropNetPPPOverridePrimary	
kSCPropNetPPPSessionTimer	
kSCPropNetPPPVerboseLogging	
kSCPropNetProxiesExceptionsList	
kSCPropNetProxiesFTPEnable	
kSCPropNetProxiesFTPPassive	
kSCPropNetProxiesFTPPort	
kSCPropNetProxiesFTPProxy	
kSCPropNetProxiesGopherEnable	
kSCPropNetProxiesGopherPort	
kSCPropNetProxiesGopherProxy	
kSCPropNetProxiesHTTPEnable	
kSCPropNetProxiesHTTPPort	
kSCPropNetProxiesHTTPProxy	
kSCPropNetProxiesHTTPSEnable	
kSCPropNetProxiesHTTPSPort	
kSCPropNetProxiesHTTPSPProxy	
kSCPropNetProxiesRTSPEnable	
kSCPropNetProxiesRTSPPort	
kSCPropNetProxiesRTSPProxy	
kSCPropNetProxiesSOCKSEnable	
kSCPropNetProxiesSOCKSPort	
kSCPropNetProxiesSOCKSPProxy	
kSCPropNetServiceOrder	
kSCPropSystemComputerName	
kSCPropSystemComputerNameEncoding	
kSCPropUserDefinedName	

## 10.1 Symbol Changes

kSCPropUsersConsoleUserGID	
kSCPropUsersConsoleUserName	
kSCPropUsersConsoleUserUID	
kSCPropVersion	
kSCResvInactive	
kSCResvLink	
kSCValNetAppleTalkConfigMethodNode	
kSCValNetAppleTalkConfigMethodRouter	
kSCValNetAppleTalkConfigMethodSeedRouter	
kSCValNetInterfaceSubTypePPPoE	
kSCValNetInterfaceSubTypePPPSerial	
kSCValNetInterfaceTypeEthernet	
kSCValNetInterfaceTypePPP	
kSCValNetIPv4ConfigMethodBOOTP	
kSCValNetIPv4ConfigMethodDHCP	
kSCValNetIPv4ConfigMethodINFORM	
kSCValNetIPv4ConfigMethodManual	
kSCValNetIPv4ConfigMethodPPP	
kSCValNetModemDialModeIgnoreDialTone	
kSCValNetModemDialModeManual	
kSCValNetModemDialModeWaitForDialTone	
kSCValNetNetInfoBindingMethodsBroadcast	
kSCValNetNetInfoBindingMethodsDHCP	
kSCValNetNetInfoBindingMethodsManual	
kSCValNetNetInfoDefaultServerTag	
kSCValNetPPPAuthProtocolCHAP	
kSCValNetPPPAuthProtocolPAP	
SCSTR	

## SystemConfiguration.h

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### Functions

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

SCError	
SCErrorString	

### Data Types & Constants

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

kSCStatusAccessError	
kSCStatusFailed	
kSCStatusInvalidArgument	
kSCStatusKeyExists	
kSCStatusLocked	
kSCStatusNeedLock	
kSCStatusNoConfigFile	
kSCStatusNoKey	
kSCStatusNoLink	
kSCStatusNoPrefsSession	
kSCStatusNoStoreServer	
kSCStatusNoStoreSession	
kSCStatusNotifierActive	
kSCStatusOK	
kSCStatusPrefsBusy	
kSCStatusReachabilityUnknown	
kSCStatusStale	





# Document Revision History

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This table describes the changes to *System Configuration Reference Update*.

Date	Notes
2007-07-18	Updated with the symbols added to the System Configuration framework in Mac OS X v10.5.
2005-02-11	New document that summarizes the symbols added to the System Configuration framework in Mac OS X v10.4.

