

# Technical Q&A QA1312

## Bonjour service types used in Mac OS X

**Q:** Is there a list of Bonjour service types being used by Mac OS X?

**A:** Is there a list of Bonjour service types being used by Mac OS X?

**Important:** Retired Document: This document may not represent best practices for current development. Links to downloads and other resources may no longer be valid.

The following table lists the various Bonjour service types being used in Mac OS X. Bonjour service types are based on IANA's list of protocol names and port numbers. More information about registering a Bonjour service type is available at the DNS-SD Web Site. For information on the format of a Bonjour service type, please see QA1198.

**Table 1:** Bonjour service types.

Protocol Name	Service Type	Notes
AppleTalk Filing Protocol (AFP)	_afpovertcp._tcp	Used by Personal File Sharing in the Sharing preference panel starting in Mac OS X 10.2. The Finder browses for AFP servers starting in Mac OS X 10.2.
Network File System (NFS)	_nfs._tcp	The Finder browses for NFS servers starting in Mac OS X 10.2.
WebDAV File System (WEBDAV)	_webdav._tcp	The Finder browses for WebDAV servers but because of a bug (r. 3171023), double-clicking a discovered server fails to connect.
File Transfer Protocol (FTP)	_ftp._tcp	Used by FTP Access in the Sharing preference panel starting in Mac OS X 10.2.2. The Finder browses for FTP servers starting in Mac OS X 10.3. The Terminal application also browses for FTP servers starting in Mac OS X 10.3.
Secure Shell (SSH)	_ssh._tcp	Used by Remote Login in the Sharing preference panel starting in Mac OS X 10.3. The Terminal application browses for SSH servers starting in Mac OS X 10.3.
Remote AppleEvents	_eppc._tcp	Used by Remote AppleEvents in the Sharing preference panel starting in Mac OS X 10.2.
Hypertext Transfer	_http._tcp	Used by Personal Web Sharing in the Sharing preference panel to advertise the User's Sites folders starting in Mac OS

Protocol (HTTP)		X 10.2.4. Safari can be used to browse for web servers.
Remote Login (TELNET)	_telnet._tcp	If Telnet is enabled, xinetd will advertise it via Bonjour starting in Mac OS X 10.3. The Terminal application browses for Telnet servers starting in Mac OS X 10.3.
Line Printer Daemon (LPD/LPR)	_printer._tcp	Print Center browses for LPR printers starting in Mac OS X 10.2. For more information on creating a Bonjour printer, please see the Bonjour Printing Specification.
Internet Printing Protocol (IPP)	_ipp._tcp	Print Center browses for IPP printers starting in Mac OS X 10.2. For more information on creating a Bonjour printer, please see the Bonjour Printing Specification.
PDL Data Stream (Port 9100)	_pdl-datastream._tcp	Print Center browses for PDL Data Stream printers starting in Mac OS X 10.2. For more information on creating a Bonjour printer, please see the Bonjour Printing Specification.
Remote I/O USB Printer Protocol	_riousbprint._tcp	Used by the AirPort Extreme Base Station to share USB printers. Printer Setup Utility browses for AirPort Extreme shared USB printers which use the Remote I/O USB Printer Protocol starting in Mac OS X 10.3.
Digital Audio Access Protocol (DAAP)	_daap._tcp	Also known as iTunes Music Sharing. iTunes advertises and browses for DAAP servers starting in iTunes 4.0.
Digital Photo Access Protocol (DPAP)	_dpap._tcp	Also known as iPhoto Photo Sharing. iPhoto advertises and browses for DPAP servers starting in iPhoto 4.0.
iChat Instant Messaging Protocol	_ichat._tcp	Used by iChat 1.0 which shipped with Mac OS X 10.2. This service is now deprecated with the introduction of the "presence" service in iChat AV. See below.
iChat Instant Messaging Protocol	_presence._tcp	Used by iChat AV which shipped with Mac OS X 10.3.
Image Capture Sharing	_ica-networking._tcp	Used by the Image Capture application to share cameras in Mac OS X 10.3.
AirPort Base Station	_airport._tcp	Used by the AirPort Admin Utility starting in Mac OS X 10.2 in order to locate and configure the AirPort Base Station (Dual Ethernet) and the AirPort Extreme Base Station.
Xserve RAID	_xserveraid._tcp	Used by the Xserve RAID Admin Utility to locate and configure Xserve RAID hardware.
Distributed		

Compiler	_distcc._tcp	Used by Xcode in its Distributed Builds feature.
Apple Password Server	_apple-sasl._tcp	Used by Open Directory Password Server starting in Mac OS X Server 10.3.
Workgroup Manager	_workstation._tcp	Open Directory advertises this service starting in Mac OS X 10.2. Workgroup Manager browses for this service starting in Mac OS X Server 10.2.
Server Admin	_servermgr._tcp	Mac OS X Server machines advertise this service starting in Mac OS X 10.3. Server Admin browses for this service starting in Mac OS X Server 10.3.
Remote Audio Output Protocol (RAOP)	_raop._tcp	Also known as AirTunes. The AirPort Express Base Station advertises this service. iTunes browses for this service starting in iTunes 4.6.

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## Document Revision History

Date	Notes
2018-06-04	Moved to Retired Documents Library.
2004-07-14	Added servermgr and raop.
	New document that provides a list of common Bonjour service types used in Mac OS X.