



System Recommendations

This chapter describes the system recommendations and requirements for Cisco IP Solution Center (ISC). ISC is a web-based application you install on a Sun Solaris server, along with a web server and other supporting packages. You access ISC using a web browser.

The recommendation is to thoroughly review this list before even planning your installation, to be sure you have all the hardware and software you need to successfully install.

For the workstation, the minimal recommendations are as shown in [Table 1](#).

Table 1 **Workstation Recommendations for ISC**

Number of Edge Devices	Workstation (or equivalent)	RAM	Swap Space	Disk Space
Up to 1500	Sun Fire™ V120 or equivalent (1 CPU)	1 GB	2 GB	36 GB
1500 - 3000	Sun Fire™ 280R (1 CPU)	2 GB	4 GB	36+ GB
More than 3000	Sun Fire™ 280R (2 CPUs) or V480 (2 CPUs expandable to 4 CPUs)	4 GB	8 GB	Two 36+ GB

Note: When ordering the Sun Fire™ V120, be sure to order a video card.



Note

To help you find the correct Sun hardware to run ISC, see the following URL for the most up-to-date recommended part numbers:

<http://www.sun.com/oem/cisco/isc.html>

This location gives recommended order numbers for Sun workstations and a description of the required and optional components.

- Solaris 8 with recommended patches of at least 108528-23 for the kernel level of the patch cluster and JDK 1.4.1 patches found at: <http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/J2SE> (where the last character in **show.pl** is the lower-case letter “l”). Table 2, “Solaris Software Requirements,” explains the Solaris requirements.

Table 2 Solaris Software Requirements

Requirements	Description
Solaris 8	Install Solaris 8 on the Sun server following these guidelines: Full Distribution—Install the full distribution, which includes the following required packages. If you did not install the full distribution, you can install these packages at any time. —SUNWlldap—LDAP libraries —SUNWfnsx5—FNS support for x.500 Directory Context —SUNWbzip—The bzip compression utility To check if your installation includes these packages, enter: pkginfo package where: <i>package</i> is one of the three packages listed above.

**Note**

When you install Solaris 8, be sure to choose either the Developer System Support or the Entire Distribution software groups. Do *not* choose the End User System software group. The Developer System Support and Entire Distribution software groups contain the software required for a correct operating system installation (such as the **SUNWbtool** and **SUNWsprot** packages).

- CD-ROM drive.
- ISC 3.2 testing on an Oracle database has been on Oracle 9.2.0.1 with US7ASCII. If you would like to use another version of Oracle, see Oracle’s compatibility information.
- A web browser is needed. Internet Explorer 6.0 or later or Netscape 7.0 or later can be used.

**Note**

When using more than one login, open a new browser instead of logging in from the same browser.

- Java Web Start applications, including Inventory Manager and Topology Tool are supported on Windows 2000 only.
- AToM PE-POP: Recommended Cisco IOS releases are 12.0(22)S or later.
- Cisco CNS IE2100 Plug-and-Play and Upload and Download: If using Cisco CNS Configuration Engine Release 1.3, the recommended Cisco IOS release is 12.2(8)T or later; if using Cisco CNS Configuration Engine Release 1.3.1, 1.3.2, or 1.4, the recommended Cisco IOS release is 12.2(11)T or later. Cisco IOS releases 12.3(1)T or later are supported only by Cisco CNS Configuration Engine Releases 1.3.2 and 1.4.
- Cisco VPN Client: Recommended releases are 3.0 or later.
- DMVPN: Recommended Cisco IOS releases are 12.2(15)T or later.
- Easy VPN Hardware Client: Recommended PIX release is 6.3 or Cisco IOS 12.3(2)T or later.
- Easy VPN Server: Recommended PIX release is 6.2 or later or Cisco IOS 12.3(4)T.

- Firewall: Recommended PIX release is 6.2 or later or Cisco IOS 12.2(13)T or later.
- IP DSL switches: Recommended Cisco IOS releases are 12.2(1)DA or later.
- IPsec Failover Cisco 7200: Recommended Cisco IOS releases are 12.2(11)YX1 or later.
- IPsec Remote Access: Recommended PIX release is 6.2 or later, Cisco IOS release 12.2(11)T or later, k8 or k9 images, or VPN 3000 releases 3.6.5, 3.6.7A, or 4.0.1E.
- IPsec Site-to-Site: Recommended PIX releases are 5.3 or later, Cisco IOS releases 12.2(11)T or later, k8 or k9 images, or VPN 3000 releases 3.6.5, 3.6.7A, or 4.0.1E.
- Metro Ethernet PE-POP (Catalyst 6500 or Cisco 7600): Recommended Cisco IOS releases are 12.1(11b)EX1 or later.
- MPLS CEs: Recommended Cisco IOS releases are 12.1 or later.
- MPLS PEs: Recommended Cisco IOS releases are 12.1(5a)T or later (except 12.2(8)T).
- MPLS PEs using Carrier Supporting Carriers (CsC) (1200): Recommended Cisco IOS releases are 12.0(14)T or later.
- MPLS PEs using EIGRP: Recommended Cisco IOS releases are 12.0(22)S or later or 12.2(15)T or later.
- Multi-VRF CE Catalyst 3550: Recommended Cisco IOS releases are 12.1(11)EA1 or later.
- Multi-VRF CE 7400: Recommended Cisco IOS releases are 12.2(4)B3 or later.
- NAT: Recommended PIX releases are 5.3 or later or Cisco IOS 12.2(11)T or later.
- Network-based IPsec: Recommended Cisco IOS releases are 12.2(11)T or later.
- PE-CLE Catalyst 2950 and Catalyst 3550: Recommended Cisco IOS releases are 12.1(11)EA1 or later.
- PE-CLE Catalyst 4000: Recommended CAT OS releases are 7.5 or later or Cisco IOS 12.1(12c)EW1 or later.
- PE-CLE Catalyst 6500: Recommended CAT OS releases are 7.3 or later or Cisco IOS 12.1(11)EW1 or later.
- QoS (Ethernet QoS) Cisco 3550: Recommended Cisco IOS release is 12.1(19)EA1a.
- QoS (Ethernet QoS) Cisco 4000: Recommended Cisco IOS release is 12.1(12c)EW
- QoS (IP QoS) Cisco 8xx, 17xx, 26xx, 36xx, 3745, and 72xx: Recommended Cisco IOS release is 12.3(5)
- QoS (IP QoS) Cisco 75xx: Recommended Cisco IOS release is 12.0(26)S.
- QoS (IP QoS) Cisco 10xxx (ESR): Recommended Cisco IOS release is 12.0(23)SX.
- QoS (IP QoS) Cisco 12xxx (GSR): Recommended Cisco IOS release is 12.0(26)S.
- QoS (IP QoS) Cisco RPM-PR: Recommended Cisco IOS release is 12.3(3)
- VPLS: Recommended Cisco IOS releases are 12.2S or later.
- VPN Service Module (VPN SM) (WS-SVC-IPsec-1) (Catalyst 6500 or Cisco 7600): Recommended CAT OS release is 7.6(1) or Cisco IOS 12.2(14) SY.

**Caution**

Make sure that the file descriptor limit is *not* set in the ISC workstation login shell file (which can be the **.login** file, the **.cshrc** file, or the **.kshrc** file). If the login shell file contains a line with the **ulimit -n** command (for example, “`ulimit -n <number>`”), comment out this command line in the file.

ISC cannot override the file descriptor limitation setting in the login shell file. If the value is set incorrectly, ISC might experience operational problems.