



System Recommendations

This chapter describes the system recommendations and requirements for 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	Number of Operators
Up to 1500	Sun Fire™ 280R (1 CPU)	2 GB	4 GB	36+ GB	10
More than 1500	Sun Fire™ 280R (2 CPUs) or V480 (2 CPUs expandable to 4 CPUs)	4 GB	8 GB	Two 36+ GB	20+

Note The **Number of Operators** column indicates the Cisco recommendation for the number of concurrent ISC operators running instances of ISC. This number is *not* the maximum number of operators.



Note

To help you find the correct Sun hardware to run ISC, Cisco provides the Sun Cisco Optimized Platform Recommended Part Numbers. Refer to the following URL for the most up-to-date recommended part numbers:

http://www.cisco.com/warp/public/756/partnership/sun/products/sun_cisco_part_numbers.pdf

The Sun Cisco Optimized Platform Recommended Part Numbers includes recommended order numbers for Sun workstations and a description of the required and optional components. Reading the columns from left to right, the optimized platforms range from moderate to high.

- Solaris 8 with recommended patches of at least 108528-14 for the kernel level of the patch cluster and JDK 1.4 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.
- For ATOM PE-POP: Recommended Cisco IOS releases are 12.0(22)S or later.
- For Cisco CNS IE2100 Plug-and-Play and Upload and Download: Recommended Cisco IOS releases are 12.2(11)T or later versions of 12.2.
- For Cisco CNS Configuration Engine: Recommend Release 1.3 or later.
- For Cisco VPN Client: Recommended releases are 3.0 or later.
- For DMVPN: Recommended Cisco IOS releases are 12.2(15)T or later.
- For EZVPN Hardware Client: Recommended PIX release is 6.3 or Cisco IOS 12.2(13)T or later.
- For Firewall: Recommended PIX release is 6.2 or Cisco IOS 12.2(13)T or later.
- For IPsec Remote Access: Recommended PIX release is 6.2, Cisco IOS release 12.2(11)T or later, k8 or k9 images, or VPN 3000 releases 3.5.6, 3.6.5, and 3.6.7A.
- For IPsec Site-to-Site: Recommended PIX releases are 5.2, 5.3, and 6.2, Cisco IOS releases 12.2(1) or later, k8 or k9 images, or VPN 3000 releases 3.5.6, 3.6.5, and 3.6.7A.
- For Metro PE-POP: Recommended Cisco IOS releases are 12.1(11b)EX1 or later.
- For MPLS PEs: Recommended Cisco IOS releases are 12.1(5a)T or later (except 12.2(8)T).
- For MPLS CEs: Recommended Cisco IOS releases are 12.1 or later.
- For MPLS PEs using EIGRP: Recommended Cisco IOS releases are 12.0(22)S and later or 12.2(15)T and later.

- For Multi-VRF CE CAT 3550: Recommended Cisco IOS releases are 12.1(11)EA1 or later.
- For Multi-VRF CE 7400: Recommended Cisco IOS releases are 12.2(4)B3 or later.
- For NAT: Recommended PIX releases are 5.2, 5.3, and 6.2 or Cisco IOS 12.0 or later.
- For PE-CLE CAT 2950 and CAT 3550: Recommended Cisco IOS releases are 12.1(11)EA1 or later.
- For PE-CLE CAT 4000: Recommended CAT OS releases are 7.5 or later or Cisco IOS 12.1(12c)EW1 or later.
- For PE-CLE CAT 6500: Recommended CAT OS releases are 7.3 or later or Cisco IOS 12.1(11)EW1 or later.
- For QoS Cisco 17xx, 26xx, 36xx, and 72xx: Recommended Cisco IOS releases are 12.2(4)T or later.
- For QoS CAT 2950 and QoS CAT 3550: Recommended Cisco IOS releases are 12.1(11)EA1 or later.
- For QoS CAT 4000: Recommended Cisco IOS releases are 12.1(11b)EW1 or later.
- For QoS Cisco 75xx: Recommended Cisco IOS releases are 12.2(4)T or later or 12.0(24)S or later.
- For QoS 7600 Optical Services Router (OSR): Recommended Cisco IOS releases are 12.1(11b)EX1.
- For QoS Cisco 12xxx (GSR): Recommended Cisco IOS releases are 12.0(23)S or later.
- For VPN 300x devices: Recommend Release 3.5 (requires the SSH client that supports the SSH protocol release 1.5, available on CCO).
- For IP DSL switches: Recommended Cisco IOS releases are 12.2(1)DA or later.
- ISC 3.0 support for an Oracle database is for Oracle 8.1.7 with US7ASCII or later.
- A web browser is needed. Internet Explorer 6.0 or later or Netscape 7.0 or later can be used.

**Note**

To use Netscape 7.0, please e-mail **isc-crypto-info** with the Subject line: Netscape7.0 to get a fix to a problem that was found late in the release cycle. You will receive a fix to allow you to use Netscape 7.0.

**Note**

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

**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 may experience operational problems.

