



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 must successfully install.

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

Table 1 Minimum Workstation Recommendations for ISC

Number of Edge Devices	Minimum 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™ V480(2 CPUs expandable to 4 CPUs)	4 GB	8 GB	Two 36+ GB

Notes:

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

We recommend that when using Traffic Engineering Management (TEM) that you use the Sun Fire™ V480.



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 4.0 testing on an Oracle database has been on Oracle 9.2.0.5 with the security patch for Oracle Alert #68 (3811906). If you would like to use another version of Oracle, see Oracle’s compatibility information.
- A web browser is needed. Internet Explorer 6.0 and Netscape 7.0 are supported.

**Note**

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

**Note**

In Internet Explorer, we recommend disabling the script debugging feature.

- Java Web Start applications, including Inventory Manager and Topology Tool are supported on Windows 2000 only.
- IP DSL switches: ISC supported with Cisco IOS 12.2(1) DA
- L2TPv3 Cisco 7200 Series: ISC supported with Cisco IOS 12.0(27) SV2 and 12.0(28) S
- L2TPv3 Cisco 7500 Series: ISC supported with Cisco IOS 12.0(27) SV2 and 12.0(28) S
- L2TPv3 Cisco 12000 (GSR) Series: ISC supported with Cisco IOS 12.0(27) SV2 and 12.0(28) S
- MPLS CEs: Recommended Cisco IOS releases are 12.1 or later

- MPLS PEs using Carrier Supporting Carriers (CsC) Cisco 12000 (GSR) Series: ISC supported with Cisco IOS 12.0(14) T, 12.0(27) SV2, and 12.0(28) S
- MPLS PEs using EIGRP: ISC supported with Cisco IOS 12.0(22) S, 12.0(27) SV2, and 12.2(15) T
- MPLS PE Cisco 7500 Series: ISC supported with Cisco IOS 12.0(27) SV2 and 12.0(28) S
- MPLS PE Cisco 10000 Series: ISC supported with Cisco IOS 12.2(16) BX2
- MPLS PE Cisco 12000 (GSR) Series: ISC supported with Cisco IOS 12.0(27) SV2 and 12.0(28) S
- Multi-VRF CE Catalyst 3550 Series: ISC supported with Cisco IOS 12.1(11) EA1
- Multi-VRF CE Cisco 7400 Series: ISC supported with Cisco IOS 12.2(4) B3
- PE-CLE (U-PE) Catalyst 2950 Series: ISC supported with Cisco IOS 12.1(11) EA1
- PE-CLE (U-PE) Catalyst 3550 Series: ISC supported with Cisco IOS 12.1(19) EA1 and Cisco IOS 12.1(22) EA1
- PE-CLE (U-PE) Catalyst 4000 Series: ISC supported with CAT OS 7.5 and Cisco IOS 12.1(12c) EW1
- PE-CLE (U-PE) Catalyst 6500 Series: ISC supported with CAT OS 7.3 and Cisco IOS 12.1(11) EW1
- PE-POP (NPE) Catalyst 6500 and 7600 Series: ISC supported with Cisco IOS 12.2(17a) SX3
- QoS (Ethernet QoS) Catalyst 3550 Series: ISC supported with Cisco IOS 12.1(22) EA1a
- QoS (IP QoS) Cisco 800, 1700, 2600, 3600, 3745, and 7200 Series: ISC supported with Cisco IOS 12.3(5)
- QoS (IP QoS) Cisco 7500 Series: ISC supported with Cisco IOS 12.0(26) S
- QoS (IP QoS) Cisco 7600 Series: ISC supported with Cisco IOS 12.1(20) E
- QoS (IP QoS) Cisco 10000 (ESR) Series: ISC supported with Cisco IOS 12.0(23) SX
- QoS (IP QoS) Cisco 12000 (GSR) Series: ISC supported with Cisco IOS 12.0(26) S
- QoS (IP QoS) Cisco RPM-PR: ISC supported with Cisco IOS 12.3(3)
- Traffic Engineering Management Cisco 7200 Series: ISC supported with Cisco IOS 12.0(22) S to 12.0(28) S
- Traffic Engineering Management Cisco 7500 Series: ISC supported with Cisco IOS 12.0(22) S to 12.0(28) S
- Traffic Engineering Management Cisco 7600 Series: ISC supported with Cisco IOS 12.2(18) SXD1
- Traffic Engineering Management Cisco 12000 (GSR) Series: ISC supported with Cisco IOS 12.0(22) S to 12.0(28) S

**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, the **.profile** 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. Log out and then log back in to ensure that the **ulimit** is no longer set.

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

